CURRÍCULUM VÍTAE NORMALIZADO

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GOBIERNO DE ESPAÑA
MINISTERIO DE CIENCIA, INNOVACIÓN Y UNIVERSIDADES

FECYT INNOVACIÓN

Summary of CV

This section describes briefly a summary of your career in science, academic and research; the main scientific and technological achievements and goals in your line of research in the medium -and long- term. It also includes other important aspects or peculiarities.

En una 1ª etapa comienzo mi labor investigadora mediante la colaboración con el Wilson Center for Research and Technology (Xerox Co.) materializada en la patente de un dispositivo de medida de propiedades físicas de sólidos granulados patentado y explotado por Xerox Co. así como posteriormente por otras empresas (Novartis Farmacéutica y Dow Corning Europe) y diversos centros de investigación mediantes proyectos de colaboración (New Jersey Institute of Technology NJIT, Institute of Particle Science and Engineering de la Univ. de Leeds). Cabe destacar la colaboración con el NJIT donde colaboro en la dirección de 2 Tesis doctorales e impartición de cursos de doctorado. Como publicaciones de mayor IF en este período cabe reseñar 5 publicaciones en Phys.Rev.Lett. Un tema particular en el que se centra la investigación es la fluidización de medios granulares. He escrito una monografía (Springer) y actúo como Editor Asociado de J. Nanopart. Res. (Springer) y Energy Technology (Wiley) entre otras revistas JCR. En 2011 organicé una escuela avanzada en el International Centre for Mech.Sci. (Udine, Italia) focalizada en medios granulares cohesivos.

Una 2ª etapa se inicia con la aplicación de nuestro conocimiento sobre fluidización de sólidos granulados a la captura de CO2 mediante la tecnología Ca-looping basada en la carbonatación/calcinación de lechos fluidizados de caliza natural y que ha adquirido un gran auge debido a su alta eficiencia demostrada por plantas piloto. En este tema se trabaja con el Combustion Research Institute (CNR, Italia) en el desarrollo de una técnica de asistencia a la captura mediante sonoprocesado que ha sido patentada. Así mismo, se lleva a cabo una fructífera colaboración con el grupo de reactividad de sólidos del ICMSE (CSIC) en el desarrollo de materiales y técnicas de tratamiento orientados a optimizar la eficiencia de captura. Mediante una colaboración con la TUDelft se desarrolla la técnica de Atomic Layer Deposition en lecho fluidizado a presión atmosférica para la fabricación de sólidos funcionales nanoestructurados. Desde 2013 participamos en el Joint Programme on Carbon Capture and Storage (European Energy Research Alliance, EERA).

En la 3ª etapa iniciada en 2014 unimos el conocimiento adquirido sobre fluidización de sólidos granulados y la tecnología Ca-looping con el objetivo de desarrollar una nueva tecnología de almacenamiento termoquímico de energía solar concentrada (CSP) basada en el proceso (Ca-Looping). Esta investigación se encuadra en los proyectos del plan Estatal “Almacenamiento Termoquímico Híbrido de Energía Solar Concentrada (SOLARTEQH)”, convocatoria RETOS 2014, que finaliza el 31/12/2017 y el proyecto “Integración del Proceso Ca-Looping en Centrales de Energía Solar Concentrada para el Almacenamiento Termoquímico de Energía” (CALSOLAR), convocatoria RETOS 2017 con inicio el 1/1/2018. En estos proyectos se lleva a cabo una colaboración activa con otros centros como los Politécnicos de Torino y Milano. Como principal éxito cabe mencionar la concesión de una propuesta H2020 coordinada por la Universidad de Sevilla: “SOlar Calcium-looping integRAtion for Thermo-Chemical Energy Storage. SOCRATCES. Call H2020-LCE-2016-2017 COMPETITIVE LOW-CARBON ENERGY” (https://www.socratces.com/). Este proyecto europeo fue concluido en 2021 y tuvo como resultado la realización de una planta piloto en la Universidad

de Sevilla para la demostración de almacenamiento termoquímico de energía solar concentrada mediante la captura de CO2. De acuerdo con la categorización de la Universidad de Stanford en los últimos 2 años pertenezco al 2% de autores con mayor impacto en el área de Chemical Engineering (World's Top 2% Scientists List) . En la revista Journal of Energy Storage se ha publicado un trabajo (Vol. 51, July 2022, 104377) en el que se hace una revisión exhaustiva de la actividad investigadora que he liderado en los últimos años y donde se me ha calificado como "the leading author in the area of chemical reaction heat storage". En este período he actuado como experto de evaluación de propuestas H2020 en convocatorias relacionadas con la captura de CO2.

General quality indicators of scientific research

This section describes briefly the main quality indicators of scientific production (periods of research activity, experience in supervising doctoral theses, total citations, articles in journals of the first quartile, H index...). It also includes other important aspects or peculiarities.

-) 4 Sexenios de Investigación (último 2013-2018 concedido en 2019 + 1 Sexenio de Transferencia (concedido en 2020).
-) 3 Tesis Doctorales dirigidas en los últimos 10 años como Responsable de Proyectos de Investigación Nacionales (2) y autonómico (1).
-) 8097 citas totales. Promedio de 227 por año en los últimos 5 años (2019-2023). 204 publicaciones totales. Índice h: 51. Scopus (a fecha 6/11/2024).

José Manuel Valverde Millán

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Gender:	[redacted]
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Current professional situation

Employing entity: Universidad de Sevilla **Type of entity:** University
Department: Electrónica y Electromagnetismo
Professional category: Catedrático de Universidad
City employing entity: Sevilla, Andalusia, Spain
Start date: 14/12/2010

Education

University education

Doctorates

Degree awarding entity: Universidad de Sevilla
Date of degree: 1997
Thesis title: Estática y dinámica de materiales granulares xerográficos
Thesis director: Antonio Castellanos Mata
Thesis co-director: Alberto Tomás Pérez Izquierdo

Teaching experience

Experience supervising doctoral thesis and/or final year projects

1 **Project title:** SISTEMAS DE ALMACENAMIENTO TERMOQUÍMICO PARA ENERGÍA SOLAR CONCENTRADA
Type of project: Doctoral thesis
Co-director of thesis: Perez Maqueda, Luis Allan
Entity: Universidad de Sevilla
Student: Sarrion Aceytuno, Beatriz
Obtained qualification: Sobresaliente "Cum Laude"
Date of reading: 09/11/2018

2 **Project title:** THE CALCIUM-LOOPING PROCESS FOR ADVANCING IN THE DEVELOPMENT OF BOTH C02 CAPTURE AND THERMOCHEMICAL ENERGY STORAGE SYSTEMS
Type of project: Doctoral thesis
Co-director of thesis: Chacartegui Ramirez, Ricardo
Entity: Universidad de Sevilla
Student: Ortiz Dominguez, Carlos
Obtained qualification: Sobresaliente "Cum Laude"
Date of reading: 17/10/2018

3 **Project title:** OPTIMIZACIÓN DE LA CAPTURA DE CO2 MEDIANTE LECHOS FIJOS Y FLUIDIZADOS DE ADSORBENTES BASADOS EN CALCIO A ESCALA DE LABORATORIO
Type of project: Doctoral thesis
Co-director of thesis: Sanchez Quintanilla, Miguel Angel
Entity: Universidad de Sevilla
Student: Perez Ebri, Jose Manuel
Obtained qualification: Sobresaliente
Date of reading: 20/07/2016

Scientific and technological experience

Scientific or technological activities

R&D projects funded through competitive calls of public or private entities

1 **Name of the project:** Micromecánica, Obstrucciones y Flujos Granulares en Sistemas de Almacenamiento Termoquímico
Geographical area: National
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): Pontiga Romero, Francisco; Durán Olivencia, Francisco José
Nº of researchers: 5
Funding entity or bodies:
Ministerio de Ciencia e Innovación **Type of entity:** Body, others

Name of the programme: Plan Estatal 2021-2023 - Proyectos Investigación Orientada
Code according to the funding entity: PID2022-138943OB-I00
Start-End date: 01/09/2023 - 31/08/2027 **Duration:** 4 years
Total amount: 150.000 €

2 **Name of the project:** Prueba de concepto en entorno relevante de nuevo diseño de calcinador solar de alta temperatura y elevada eficiencia
Geographical area: National
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): Becerra Villanueva, José Antonio
Nº of researchers: 3
Funding entity or bodies:
Ministerio de Ciencia e Innovación **Type of entity:** Body, others

Name of the programme: Programa Estatal de I+D+i Retos de la Sociedad: Pruebas de Concepto
Code according to the funding entity: PDC2021-121552-C22
Start-End date: 01/12/2021 - 30/11/2023 **Duration:** 2 years
Total amount: 71.070 €

3 **Name of the project:** Integración del Proceso Ca-Looping en Centrales de Energía Solar Concentrada para el Almacenamiento Termo-Químico de Energía
Geographical area: National
Degree of contribution: Responsable
Name principal investigator (PI, Co-PI....): Valverde Millán, José Manuel; Becerra Villanueva, José Antonio
Nº of researchers: 16
Funding entity or bodies:
Ministerio de Economía y Competitividad

Name of the programme: Plan Estatal 2013-2016 Retos - Proyectos I+D+i
Code according to the funding entity: CTQ2017-83602-C2-2-R
Start-End date: 01/01/2018 - 30/09/2022 **Duration:** 4 years - 9 months
Total amount: 171.820 €

4 **Name of the project:** Nuevos materiales para el almacenamiento de Energía Solar Concentrada mediante Calcium-Looping (SOLACAL)
Geographical area: Regional
Degree of contribution: Responsable
Name principal investigator (PI, Co-PI....): Perejón Pazo, Antonio; Valverde Millán, José Manuel
Nº of researchers: 7
Funding entity or bodies:
Junta de Andalucía (Consejería de Economía y Conocimiento)

Name of the programme: Proyectos I+D+i FEDER Andalucía 2014-2020
Code according to the funding entity: US-1262507
Start-End date: 01/02/2020 - 30/04/2022 **Duration:** 2 years - 3 months
Total amount: 76.700 €

5 **Name of the project:** SOlar Calcium-looping integRAtion for Thermo-Chemical Energy Storage (SOCRATCES)
Geographical area: European Union
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): Chacartegui Ramírez, Ricardo
Nº of researchers: 13
Funding entity or bodies:
Comisión Europea **Type of entity:** Body, others

Name of the programme: Horizonte 2020
Code according to the funding entity: 3228/0666
Start-End date: 01/01/2018 - 31/12/2021 **Duration:** 4 years
Total amount: 403.880,89 €

6 **Name of the project:** Almacenamiento Termoquímico Hibrido de Energia Solar Concentrada
Geographical area: National
Degree of contribution: Responsable
Name principal investigator (PI, Co-PI....): Valverde Millán, José Manuel
Nº of researchers: 11
Funding entity or bodies:
Ministerio de Economía y Competitividad

Name of the programme: Plan Estatal 2013-2016 Retos - Proyectos I+D+i
Code according to the funding entity: CTQ2014-52763-C2-2-R
Start-End date: 01/01/2015 - 31/12/2018 **Duration:** 4 years
Total amount: 159.720 €

7 **Name of the project:** Fluidización de Partículas Finas y Ultrafinas Funcionales
Geographical area: Regional
Degree of contribution: Responsable
Name principal investigator (PI, Co-PI....): Valverde Millán, José Manuel
Nº of researchers: 6
Funding entity or bodies:
Junta de Andalucía - Consejería de Innovación, Ciencia y Empresas

Name of the programme: Proyectos de Excelencia de la Junta de Andalucía
Code according to the funding entity: P10-FQM-5735
Start-End date: 15/03/2011 - 30/04/2016 **Duration:** 5 years - 1 month - 16 days

Total amount: 195.022 €

8 **Name of the project:** Dinámica de Fluidos, Suspensiones y Medios Granulares Cohesivos Sometidos a Fuerzas Mecánicas, Eléctricas y/o Magnéticas
Geographical area: National
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): Castellanos Mata, Antonio
Nº of researchers: 21
Funding entity or bodies:
Ministerio de Ciencia e Innovación **Type of entity:** Body, others

Name of the programme: Plan Nacional del 2011
Code according to the funding entity: FIS2011-25161
Start-End date: 01/01/2012 - 30/09/2015 **Duration:** 3 years - 9 months
Total amount: 329.120 €

9 **Name of the project:** Electrohidrodinámica de fluidos complejos y mecánica de medios granulares cohesivos
Geographical area: National
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): Castellanos Mata, Antonio
Nº of researchers: 20
Funding entity or bodies:
Ministerio de Educación y Ciencia

Name of the programme: Plan Nacional del 2006
Code according to the funding entity: FIS2006-03645
Start-End date: 01/10/2006 - 30/09/2011 **Duration:** 5 years
Total amount: 634.040 €

10 **Name of the project:** Electrohidrodinámica de suspensiones y reología de medios granulares cohesivos
Geographical area: Regional
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): Castellanos Mata, Antonio
Nº of researchers: 20
Funding entity or bodies:
Junta de Andalucía (Plan Andaluz de Investigación)

Name of the programme: Proyectos de Excelencia de la Junta de Andalucía
Code according to the funding entity: EXC/2005/FQM-421
Start-End date: 01/03/2006 - 28/02/2009 **Duration:** 3 years
Total amount: 234.999,88 €

11 **Name of the project:** Electrohidrodinámica y electrocinética de fluidos y partículas
Geographical area: National
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): Castellanos Mata, Antonio
Nº of researchers: 14
Funding entity or bodies:
Ministerio de Ciencia y Tecnología

Name of the programme: Plan Nacional del 2003
Code according to the funding entity: BFM2003-01739

Start-End date: 15/11/2003 - 15/11/2006 **Duration:** 3 years - 1 day
Total amount: 421.840 €

12 **Name of the project:** Electrohidrodinámica de líquidos y suspensiones
Geographical area: National
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): Castellanos Mata, Antonio
Nº of researchers: 13
Funding entity or bodies:
Ministerio de Ciencia y Tecnología

Name of the programme: Plan Nacional del 2000
Code according to the funding entity: BFM2000-1056
Start-End date: 20/12/2000 - 20/12/2003 **Duration:** 3 years - 1 day
Total amount: 229.538,54 €

R&D non-competitive contracts, agreements or projects with public or private entities

Name of the project: REDISPERSIÓN DE REVELADORES LÍQUIDOS DE ALTA CONCENTRACIÓN SÓLIDA
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): Castellanos-Mata, Antonio
Nº of researchers: 3
Name of the programme: Contrato art. 11/45 LRU - 68/83 LOU
Code according to the funding entity: OG-059/00
Start date: 10/12/1997
Total amount: 10.343,42 €

Results

Industrial and intellectual property

1 **Title registered industrial property:** Instalación de almacenamiento de energía termoquímicamecánica y procedimiento de almacenamiento de energía
Description of qualities: Instalación de almacenamiento de energía termoquímica-mecánica y procedimiento de almacenamiento de energía. La instalación de almacenamiento de energía comprende un bloque endotérmico con un reactor endotérmico (1) configurado para recibir una corriente de metanol y calor a media/baja temperatura (2) y producir un gas de síntesis (3) por descomposición térmica del metanol. Comprende también un bloque exotérmico con un reactor exotérmico (5) configurado para recibir una corriente de gas de síntesis proveniente del bloque endotérmico y producir una corriente de gas rica en metano (6), a alta presión y alta temperatura, por metanación; y un motor térmico (7) configurado para recibir la corriente rica en metano (6) y generar energía mecánica. El procedimiento de almacenamiento de energía se lleva a cabo en dicha instalación.
Type of industrial property: Patent of invention
Inventors/authors/obtainers: Chacartegui Ramírez, Ricardo; Becerra Villanueva, José Antonio; Valverde Millán, José Manuel; Ortiz Domínguez, Carlos; Masci, Giuseppe
Entity holder of rights: Universidad de Sevilla
Nº of application: P201930406
Date of register: 08/05/2019
Conferral date: 08/03/2021

Nº of patent: ES2792748B2
PCT patent: Yes

2 **Title registered industrial property:** Procedimiento termoquímico de almacenamiento de energía solar concentrada a partir de escoria de acería
Description of qualities: La presente invención propone el empleo de escoria de acería pretratada para el almacenamiento termoquímico de energía solar concentrada (CSP) mediante la integración de esta tecnología con el proceso "Calcium Looping" (CaL). La escoria de acería es un material de bajo coste, abundante y no-tóxico. El CaO derivado del tratamiento de la escoria con ácido acético presenta un valor alto y estable de su conversión en CaCO3 a lo largo de sucesivos ciclos de carbonatación/calcinación llevados a cabo en condiciones de máxima eficiencia para la integración CSP-CaL. La invención tiene aplicación en el sector energético, y en concreto, en el área de energías renovables. También es relevante en el sector metalúrgico pues revaloriza la escoria de acería para su empleo en el almacenamiento de energía.
Type of industrial property: Patent of invention
Inventors/authors/obtainers: Valverde Millán, José Manuel; Miranda Pizarro, Juan; Perejón Pazo, Antonio; Pérez Maqueda, Luis Allan; Sánchez Jiménez, Pedro Enrique
Entity holder of rights: CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS;UNIVERSIDAD DE SEVILLA
Nº of application: P201600314
Date of register: 12/04/2016
Conferral date: 30/08/2018
Nº of patent: ES2637510B1

3 **Title registered industrial property:** Instalación y procedimiento de captura de CO2
Description of qualities: Instalación y procedimiento de captura de CO2. La instalación comprende una unidad de separación (1) mediante membranas a la que entra una primera corriente de aire (2) que sale una corriente de aire enriquecida en oxígeno (3) con una concentración de oxígeno de entre 25-50%v/v. Comprende una caldera (4) a la que entran la corriente de aire enriquecida en oxígeno (3) y el combustible fósil (5) que se va a quemar y de la que sale una corriente de gases de combustión (6) con entre un 25-60%v/v de CO2 que se dirige a un carbonatador (8) de una unidad de calcinación-carbonatación (7) que también comprende un calcinador (10) del que sale una corriente de CO2 de alta pureza (11). Se describe también un procedimiento de captura de CO2 en dicha instalación.
Type of industrial property: Patent of invention
Inventors/authors/obtainers: Ortiz Domínguez, Carlos; Chacartegui Ramírez, Ricardo; Valverde Millán, José Manuel; Becerra Villanueva, José Antonio
Entity holder of rights: Universidad de Sevilla
Nº of application: P201830712
Date of register: 16/07/2018

4 **Title registered industrial property:** Sistema integrado de captura de CO2 y producción de bicarbonato de sodio (NaHCO3) A partir de Trona (Na2CO3 - 2H2O - NaHCO3)
Description of qualities: La presente invención presenta un sistema integrado de producción de Na2HCO3 a partir del CO2 capturada de industrias o plantas de potencia mediante un proceso de carbonato seco partiendo de trona como materia prima (Na2CO3 · NaHCO3 · 2H2O) y convirtiéndola en carbonato de sodio (Na2CO3).La integración optimizada del conjunto permite el acoplamiento con energías renovables a media temperatura >220°C, como pueden ser biomas o sistemas de energía solar térmica a media temperatura. El uso de los mismos resulta en un sistema global de casi cero emisiones de CO2, siendo capaces de satisfacer las necesidades de calor del conjunto integrado, minimizando el consumo energético del sistema de captura de CO2 y conversión a bicarbonato. Esta integración optimizada reduce la penalización energética y económica de la integración del sistema de captura de CO2 y conversión a producto químico de valor añadido.
Type of industrial property: Patent of invention

Inventors/authors/obtainers: Chacartegui Ramírez, Ricardo; Becerra Villanueva, José Antonio; Valverde Millán, José Manuel; Bonaventura, Davide
Entity holder of rights: UNIVERSIDAD DE SEVILLA
Nº of application: P201600616
Date of register: 19/07/2016
Conferral date: 07/05/2018
Nº of patent: ES2650840B2
PCT patent: Yes

5 **Title registered industrial property:** Sistema integrado de calcinación-carbonatación y ciclo de lazo cerrado de CO2 para almacenamiento de energía termoquímica y generación de energía eléctrica
Description of qualities: El objeto de la invención es la integración de un ciclo de carbonatación-calcinación (Calcium Looping) con un lazo cerrado de potencia por donde evoluciona CO2 o mezclas de CO2 con otros gases para proporcionar almacenamiento termoquímico para plantas de potencias y procesos industriales con calor disponible a media temperatura (por encima de los 550ºC). Esto es de aplicación entre otros a plantas termosolares y procesos industriales. Con el sistema desarrollado se consiguen rendimientos de operación por encima del 46% con una capacidad de almacenamiento con gran desfase entre la carga y descarga de larga duración.
Type of industrial property: Patent of invention
Inventors/authors/obtainers: Chacartegui Ramírez, Ricardo; Becerra Villanueva, José Antonio; Valverde Millán, José Manuel; Ortiz Domínguez, Carlos; Alovisio, Alessandro (It)
Entity holder of rights: UNIVERSIDAD DE SEVILLA
Nº of application: P201500493
Date of register: 29/06/2015
Conferral date: 30/10/2017
Nº of patent: ES2595443B1
PCT patent: Yes

6 **Title registered industrial property:** Procedimiento termoquímico de transferencia y almacenamiento de energía solar concentrada
Description of qualities: El objeto de la presente invención es la transferencia y almacenamiento de energía termosolar concentrada mediante el uso de un lecho de sólidos granulados consistente en una mezcla de sólidos inertes, preferentemente arena, y CaCO3/CaO fluidizado por un flujo de gas controlado consistente en una mezcla de gas inerte, preferentemente aire, y CO2 en proporción controlada.El área a la que corresponde la invención es la de Tecnología Energética y Medioambiental, siendo el sector de aplicación en el que se aplicaría el de las Energías Renovables.
Type of industrial property: Patent of invention
Inventors/authors/obtainers: Valverde Millán, José Manuel
Entity holder of rights: UNIVERSIDAD DE SEVILLA
Nº of application: P201400520
Date of register: 26/06/2014
Conferral date: 19/04/2016
Nº of patent: ES2555329B2
PCT patent: Yes

7 **Title registered industrial property:** Procedimiento de captura de CO2 por CaO a alta temperatura asistido por vibración acústica
Description of qualities: La presente invención tiene por objeto un procedimiento que incrementa la capacidad de captura rápida de CO2 por un reactor de lecho fluidizado de CaO a alta temperatura en el proceso "Ca-looping" (CaL). El procedimiento propuesto de asistencia a la captura de CO2 se basa en la aplicación de vibraciones acústicas directamente sobre el material fluidizado en el reactor de carbonatación, para unos valores de la intensidad de la vibración acústica y de su frecuencia en torno a 150dB y 100Hz respectivamente. Con este procedimiento se consigue acelerar la carbonatación del material y reducir la

pérdida de capacidad de captura tras ser sometido a sucesivos ciclos de calcinación/carbonatación. La presente invención tiene su aplicación en el área de la Energía y el Medioambiente, concretamente en sectores de actividad orientados a la mejora de eficacia de tecnologías energéticas.

Type of industrial property: Patent of invention

Inventors/authors/obtainers: Valverde Millan, Jose Manuel; Sánchez Quintanilla, Miguel Angel; Perez Ebri, Jose Manuel; Chirone, Riccardo (It); Ammendola, Paola (It); Raganati, Federica (It)

Entity holder of rights: CONSIGLIO NAZIONALE DELLA RICERCA (IT);UNIVERSITÁ DEGLI STUDI DI NAPOLI FEDERICO II (IT);UNIVERSIDAD DE SEVILLA

Nº of application: P201300227

Date of register: 22/02/2013

Conferral date: 26/01/2015

Nº of patent: ES2498732B2

PCT patent: Yes

8 **Title registered industrial property:** Procedimiento para mejorar la fluidización de polvos finos cohesivos adsorbentes de CO2

Description of qualities: La presente invención tiene por objeto un procedimiento destinado a mejorar la fluidizabilidad de polvos finos cohesivos (tipo Geldart C) empleados en la adsorción de CO2 y en técnicas avanzadas de combustión basadas en lechos fluidos. El procedimiento propuesto consiste en mezclar el polvo fino cohesivo adsorbente de CO2 con un polvo nanoestructurado cuyos aglomerados son muy porosos, preferentemente Aerosil R974, y que se fluidizan de manera homogénea. Tras someter la mezcla a un tratamiento de agitación, por ejemplo mediante rotación en un tambor durante algunos minutos o por agitación magnética, los aglomerados porosos del polvo nanoestructurado quedan recubiertos por una capa de partículas adsorbentes de CO2. Esta mezcla es fluidizable uniformemente, con la ventaja de que las partículas adsorbentes de CO2, que recubren los aglomerados porosos del polvo nanoestructurado, quedan expuestas a la corriente de gas en el lecho fluidizado. Con ello se consigue incrementar el área efectiva de contacto entre el gas de poscombustión y la superficie de las partículas adsorbentes de CO2 en un lecho fluido de cara a su aplicación en la tecnología de adsorción de CO2.

Type of industrial property: Patent of invention

Inventors/authors/obtainers: Valverde Millán, José Manuel; Soria Del Hoyo, Carlos; Espín Milla, Manuel; Sánchez Quintanilla, Miguel Angel; Castellanos Mata, Antonio

Entity holder of rights: UNIVERSIDAD DE SEVILLA

Nº of application: P201101331

Date of register: 15/12/2011

Conferral date: 15/04/2014

Nº of patent: ES2412629B1

9 **Title registered industrial property:** Fluidización de polvos finos y ultrafinos asistida por campos eléctricos oscilantes

Description of qualities: Fluidización de polvos finos y ultrafinos asistida por campos eléctricos oscilantes.Se describe un método para mejorar la fluidización con gas de polvos finos y ultrafinos. Un procedimiento de fluidización de polvos que comprende hacer pasar un flujo de gas (4) a través de una placa porosa (5) por un lecho de polvo (6) dispuesto sobre dicha placa porosa (5) en una cámara de fluidización (10), comprendiendo el lecho de polvo (6) al menos un polvo seleccionado entre polvos finos que comprenden partículas primarias con un tamaño típico entre 1 y 20 micras, polvos ultrafinos que comprenden partículas primarias con un tamaño típico entre 1 y 1000 nm, y mezclas de los mismos; y simultáneamente someter el lecho de polvo (6) a un tratamiento de agitación para reducir el efecto de la cohesión entre dichas partículas, el cual comprende aplicar sobre dicho lecho al menos a un campo eléctrico oscilante (9). El movimiento inducido por el campo externo oscilante da como resultado una fluidización más uniforme y, consecuentemente, una mayor expansión del lecho fluido.Se describe también la instalación correspondiente para realizar el procedimiento y se presentan medios (7, 8) para generar el campo eléctrico oscilante.

Type of industrial property: Patent of invention

Inventors/authors/obtainers: Valverde Millan, Jose Manuel; Espin Milla, Manuel Jesus; Castellanos Mata, Antonio; Sanchez Quintanilla, Miguel Angel

Entity holder of rights: UNIVERSIDAD DE SEVILLA
Nº of application: P200802055
Date of register: 10/07/2008
Conferral date: 02/06/2011
Nº of patent: ES2341934B1
PCT patent: Yes

10 **Title registered industrial property:** Procedimiento asistido de adsorcion de dioxido de carbono
Description of qualities: La presente invención tiene por objeto un procedimiento de adsorción de CO2 que consiste en hacer pasar un flujo de gas con una concentración determinada de CO2 a través de un lecho de polvo dispuesto sobre una placa porosa en una cámara de fluidización, comprendiendo el lecho de polvo al menos un polvo seleccionado entre polvos ultrafinos que comprenden partículas primarias con un tamaño típico entre 1 y 100 nm; y simultáneamente someter el lecho de polvo a un tratamiento de agitación en combinación con una campo eléctrico para reducir el efecto de la cohesión entre dichas partículas y desestabilizar la formación de cenales y burbujas.La invención técnica corresponde al área general de la ingeniería química. En particular, tendría aplicación en procesos de filtración de gases. Se propone un procedimiento que puede ser empleado para estimular la adsorción de CO2 mediante la fluidización asistida de nanopartículas de óxidos metálicos.
Type of industrial property: Patent of invention
Inventors/authors/obtainers: Valverde Millan, Jose Manuel; Castellanos Mata, Antonio
Entity holder of rights: UNIVERSIDAD DE SEVILLA
Nº of application: P200901132
Date of register: 30/04/2009
Conferral date: 03/05/2011
Nº of patent: ES2347629B2
PCT patent: Yes

11 **Title registered industrial property:** Dispositivo y procedimiento para medir la cohesión de medios granulares finos.
Description of qualities: Dispositivo y procedimiento para medir la cohesión de medios granulares finos. El objeto de la presente invención es un dispositivo automatizado para la medida de la cohesión de medios granulares finos (polvos). El aparato se basa en un procedimiento que usa de forma novedosa el asiento fluido, donde el medio granular primero se inicializa a un estado reproducible; el medio granular inicializado se consolida o desconsolida por medio de un flujo controlado de gas; el asiento de polvo consolidado/desconsolidado se somete entonces a un flujo de gas, dirigido de tal forma que el material granular se halle bajo tensión; la sobrepresión que causa la ruptura del asiento de polvo proporciona entonces una medida del esfuerzo tensil del material granular, que a su vez es una función de la consolidación y de la fracción de vacío. La determinación de estas tres propiedades interdependientes constituye una medida de la fluidez del material. La técnica inventada es de gran interés para la industria xerográfica como método de diagnóstico basado en las propiedades físicas fundamentales.
Type of industrial property: Patent of invention
Inventors/authors/obtainers: Castellanos Mata,Antonio; Ramos Reyes, Antonio; Valverde Millan, Jose Manuel
Entity holder of rights: UNIVERSIDAD DE SEVILLA
Nº of application: P9702518
Date of register: 26/11/1997
Conferral date: 20/01/2000
Nº of patent: ES2131031B1
PCT patent: Yes

Scientific and technological activities

Scientific production

Publications, scientific and technical documents

1 Durán-Olivencia, F. J.; Gannoun, R.; Pérez, A. T.; Valverde, J. M.. Efficacy of nanosilica coatings in calcium looping reactors. INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH. 62 - 3, pp. 1373 - 1389. AMER CHEMICAL SOC, 2023. Available on-line at: <https://doi.org/10.1021/acs.iecr.2c03490>. ISSN 0888-5885, ISSN 1520-5045

DOI: 10.1021/acs.iecr.2c03490
Handle: 11441/144445
PMID: 36719300
Código WOS: WOS:000922642400001
Código Scopus: 85146615363
Type of production: Scientific paper
Format: Journal
Position of signature: 4
Total no. authors: 4
Corresponding author: Yes

Impact source: ISI
Category: Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 3.800
Journal in the top 25%: No
Position of publication: 55
No. of journals in the cat.: 170

Impact source: SCOPUS
Category: Chemical Engineering (miscellaneous)
Impact index in year of publication: 0.811
Journal in the top 25%: Yes
Position of publication: 68
No. of journals in the cat.: 344

Impact source: SCOPUS
Category: Chemistry (miscellaneous)
Impact index in year of publication: 0.811
Journal in the top 25%: Yes
Position of publication: 111
No. of journals in the cat.: 495

Impact source: SCOPUS
Category: Industrial and Manufacturing Engineering
Impact index in year of publication: 0.811
Journal in the top 25%: Yes
Position of publication: 76
No. of journals in the cat.: 369

Source of citations: SCOPUS
Citations: 4

Source of citations: WOS
Citations: 5

2 Ortiz, C.; García-Luna, S.; Chacartegui, R.; Valverde, J. M.; Pérez-Maqueda, L.. Partial oxycombustion-calcium looping hybridisation for CO2 capture in waste-to-energy power plants. JOURNAL OF CLEANER PRODUCTION. 403, ELSEVIER SCI LTD, 2023. Available on-line at: <https://doi.org/10.1016/j.jclepro.2023.136776>. ISSN 0959-6526, ISSN 1879-1786

DOI: 10.1016/j.jclepro.2023.136776
Handle: 11441/165815
Código WOS: WOS:001054140700001
Código Scopus: 85163593766
Type of production: Scientific paper
Format: Journal
Position of signature: 4
Total no. authors: 5

Impact source: ISI
Category: Science Edition - ENGINEERING, ENVIRONMENTAL
Impact index in year of publication: 9.800
Journal in the top 25%: Yes
Position of publication: 9
No. of journals in the cat.: 81

Impact source: ISI
Category: Science Edition - ENVIRONMENTAL SCIENCES
Impact index in year of publication: 9.800
Journal in the top 25%: Yes
Position of publication: 24
No. of journals in the cat.: 358

Impact source: ISI
Category: Science Edition - GREEN & SUSTAINABLE SCIENCE & TECHNOLOGY
Impact index in year of publication: 9.800
Journal in the top 25%: Yes
Position of publication: 13
No. of journals in the cat.: 91

Impact source: SCOPUS
Category: Environmental Science (miscellaneous)
Impact index in year of publication: 2.058
Journal in the top 25%: Yes
Position of publication: 23
No. of journals in the cat.: 418

Impact source: SCOPUS
Category: Industrial and Manufacturing Engineering
Impact index in year of publication: 2.058
Journal in the top 25%: Yes
Position of publication: 23
No. of journals in the cat.: 369

Impact source: SCOPUS
Category: Renewable Energy, Sustainability and the Environment
Impact index in year of publication: 2.058
Journal in the top 25%: Yes
Position of publication: 29
No. of journals in the cat.: 245

Impact source: SCOPUS
Category: Strategy and Management
Impact index in year of publication: 2.058
Journal in the top 25%: Yes
Position of publication: 48
No. of journals in the cat.: 480

Source of citations: SCOPUS
Citations: 10

Source of citations: WOS
Citations: 9

3 Imani, Mehri; Tahmasebpoor, Maryam; Sánchez-Jiménez, Pedro Enrique; Valverde, José Manuel; Moreno García, Virginia. A novel, green, cost-effective and fluidizable SiO2-decorated calcium-based adsorbent recovered from eggshell waste for the CO2 capture process. SEPARATION AND PURIFICATION TECHNOLOGY. 305, ELSEVIER SCIENCE BV; ELSEVIER, 2023. Available on-line at: <https://doi.org/10.1016/j.seppur.2022.122523>. ISSN 1383-5866, ISSN 1873-3794
DOI: 10.1016/j.seppur.2022.122523
Código WOS: WOS:000900793600004
Código Scopus: 85141495596
Type of production: Scientific paper
Format: Journal
Position of signature: 4
Total no. authors: 5

Impact source: ISI
Category: Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 8.200
Journal in the top 25%: Yes
Position of publication: 15
No. of journals in the cat.: 170

Impact source: SCOPUS
Category: Analytical Chemistry
Impact index in year of publication: 1.533
Journal in the top 25%: Yes
Position of publication: 11
No. of journals in the cat.: 155

Impact source: SCOPUS
Impact index in year of publication: 1.533
Position of publication: 3
Category: Filtration and Separation
Journal in the top 25%: Yes
No. of journals in the cat.: 19

Source of citations: SCOPUS
Citations: 32

Source of citations: WOS
Citations: 27

4 Molina-Molina, Sandra; Gil-González, Eva; Durán-Olivencia, Francisco José; Valverde, José Manuel; Perejón, Antonio; Sánchez-Jiménez, Pedro E.; Pérez-Maqueda, Luis A.. A novel Multi-Phase Flash Sintering (MPFS) technique for 3D complex-shaped ceramics. APPLIED MATERIALS TODAY. 26, ELSEVIER SCIENCE BV; ELSEVIER, 2022. Available on-line at: <https://doi.org/10.1016/j.apmt.2021.101274>. ISSN 2352-9407
DOI: 10.1016/j.apmt.2021.101274
Handle: 11441/141351
Código WOS: WOS:000727724700006
Código Scopus: 85120486890
Type of production: Scientific paper
Format: Journal
Position of signature: 4
Total no. authors: 7

Impact source: ISI
Impact index in year of publication: 8.300
Position of publication: 66
Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
Journal in the top 25%: Yes
No. of journals in the cat.: 344

Impact source: SCOPUS
Impact index in year of publication: 1.627
Position of publication: 72
Category: Materials Science (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 631

Source of citations: SCOPUS
Citations: 14

Source of citations: WOS
Citations: 13

5 Amghar, Nabil; Ortiz, Carlos; Perejón, Antonio; Valverde, José Manuel; Pérez Maqueda, Luis; Sánchez Jiménez, Pedro E.. The SrCO3/SrO system for thermochemical energy storage at ultra-high temperature. SOLAR ENERGY MATERIALS AND SOLAR CELLS. 238, ELSEVIER SCIENCE BV; ELSEVIER, 2022. Available on-line at: <https://doi.org/10.1016/j.solmat.2022.111632>. ISSN 0927-0248, ISSN 1879-3398
DOI: 10.1016/j.solmat.2022.111632
Handle: 11441/137221
Código WOS: WOS:000761250300001
Código Scopus: 85124085082
Type of production: Scientific paper
Format: Journal
Position of signature: 4
Total no. authors: 6

Impact source: ISI
Impact index in year of publication: 6.900
Position of publication: 35
Category: Science Edition - ENERGY & FUELS
Journal in the top 25%: No
No. of journals in the cat.: 119

Impact source: ISI
Impact index in year of publication: 6.900
Position of publication: 80
Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
Journal in the top 25%: Yes
No. of journals in the cat.: 344

Impact source: ISI
Category: Science Edition - PHYSICS, APPLIED

Impact index in year of publication: 6.900
Position of publication: 26
Journal in the top 25%: Yes
No. of journals in the cat.: 160

Impact source: SCOPUS
Impact index in year of publication: 1.503
Position of publication: 34
Category: Electronic, Optical and Magnetic Materials
Journal in the top 25%: Yes
No. of journals in the cat.: 262

Impact source: SCOPUS
Impact index in year of publication: 1.503
Position of publication: 41
Category: Renewable Energy, Sustainability and the Environment
Journal in the top 25%: Yes
No. of journals in the cat.: 243

Impact source: SCOPUS
Impact index in year of publication: 1.503
Position of publication: 10
Category: Surfaces, Coatings and Films
Journal in the top 25%: Yes
No. of journals in the cat.: 136

Source of citations: SCOPUS
Citations: 14

Source of citations: WOS
Citations: 13

6 Gannoun, Rahma; Ebrí, José Manuel Pérez; Pérez, Alberto T.; Valverde, José Manuel. The Sevilla Powder Tester: A Tool for Measuring the Flow Properties of Cohesive Powders at High Temperatures. KONA Powder and Particle Journal. 39 - 39, pp. 29 - 44. Hosokawa Powder Technology Foundation, 2022. Available on-line at: <https://doi.org/10.14356/kona.2022008>. ISSN 0288-4534, ISSN 2187-5537

DOI: 10.14356/kona.2022008
Handle: 11441/136725
Código WOS: WOS:000767346600004
Código Scopus: 85127940493
Type of production: Scientific paper
Format: Journal
Position of signature: 4
Total no. authors: 4
Corresponding author: Yes

Impact source: ISI
Impact index in year of publication: 4.100
Position of publication: 51
Category: Science Edition - ENGINEERING, CHEMICAL
Journal in the top 25%: No
No. of journals in the cat.: 142

Impact source: ISI
Impact index in year of publication: 4.100
Position of publication: 139
Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
Journal in the top 25%: No
No. of journals in the cat.: 344

Impact source: SCOPUS
Impact index in year of publication: 0.488
Position of publication: 118
Category: Chemical Engineering (miscellaneous)
Journal in the top 25%: No
No. of journals in the cat.: 343

Impact source: SCOPUS
Impact index in year of publication: 0.488
Position of publication: 172
Category: Chemistry (miscellaneous)
Journal in the top 25%: No
No. of journals in the cat.: 498

Impact source: SCOPUS
Impact index in year of publication: 0.488
Position of publication: 141
Category: Engineering (miscellaneous)
Journal in the top 25%: No
No. of journals in the cat.: 468

Impact source: SCOPUS
Impact index in year of publication: 0.488
Category: Materials Science (miscellaneous)
Journal in the top 25%: No

Position of publication: 259 **No. of journals in the cat.:** 631

Source of citations: SCOPUS **Citations:** 0

Source of citations: WOS **Citations:** 1

7 Gannoun, R.; Durán-Olivencia, F. J.; Pérez, A. T.; Valverde, J. M.. Titania coatings: a mechanical shield for cohesive granular media at high temperatures. CHEMICAL ENGINEERING JOURNAL. 450, Elsevier Science; ELSEVIER SCIENCE SA, 2022. Available on-line at: <https://doi.org/10.1016/j.cej.2022.138123>. ISSN 1385-8947, ISSN 1873-3212

DOI: 10.1016/j.cej.2022.138123
Código WOS: WOS:000862698800002
Código Scopus: 85134803591
Type of production: Scientific paper **Format:** Journal
Position of signature: 4
Total no. authors: 4

Impact source: ISI **Category:** Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 15.100 **Journal in the top 25%:** Yes
Position of publication: 5 **No. of journals in the cat.:** 142

Impact source: ISI **Category:** Science Edition - ENGINEERING, ENVIRONMENTAL
Impact index in year of publication: 15.100 **Journal in the top 25%:** Yes
Position of publication: 3 **No. of journals in the cat.:** 55

Impact source: SCOPUS **Category:** Chemical Engineering (miscellaneous)
Impact index in year of publication: 2.803 **Journal in the top 25%:** Yes
Position of publication: 12 **No. of journals in the cat.:** 343

Impact source: SCOPUS **Category:** Chemistry (miscellaneous)
Impact index in year of publication: 2.803 **Journal in the top 25%:** Yes
Position of publication: 28 **No. of journals in the cat.:** 498

Impact source: SCOPUS **Category:** Environmental Chemistry
Impact index in year of publication: 2.803 **Journal in the top 25%:** Yes
Position of publication: 8 **No. of journals in the cat.:** 146

Impact source: SCOPUS **Category:** Industrial and Manufacturing Engineering
Impact index in year of publication: 2.803 **Journal in the top 25%:** Yes
Position of publication: 7 **No. of journals in the cat.:** 372

Source of citations: SCOPUS **Citations:** 3

Source of citations: WOS **Citations:** 3

8 Medina-Carrasco, Santiago; Valverde, Jose Manuel. The Calcium Looping process for energy storage: Insights from in situ XRD analysis. CHEMICAL ENGINEERING JOURNAL. 429, Elsevier Science; ELSEVIER SCIENCE SA, 2022. Available on-line at: <https://doi.org/10.1016/j.cej.2021.132244>. ISSN 1385-8947, ISSN 1873-3212

DOI: 10.1016/j.cej.2021.132244
Handle: 11441/127989
Código WOS: WOS:000728385600005
Código Scopus: 85114474497
Type of production: Scientific paper **Format:** Journal
Position of signature: 2

Total no. authors: 2

Impact source: ISI
Category: Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 15.100
Journal in the top 25%: Yes
Position of publication: 5
No. of journals in the cat.: 142

Impact source: ISI
Category: Science Edition - ENGINEERING, ENVIRONMENTAL
Impact index in year of publication: 15.100
Journal in the top 25%: Yes
Position of publication: 3
No. of journals in the cat.: 55

Impact source: SCOPUS
Category: Chemical Engineering (miscellaneous)
Impact index in year of publication: 2.803
Journal in the top 25%: Yes
Position of publication: 12
No. of journals in the cat.: 343

Impact source: SCOPUS
Category: Chemistry (miscellaneous)
Impact index in year of publication: 2.803
Journal in the top 25%: Yes
Position of publication: 28
No. of journals in the cat.: 498

Impact source: SCOPUS
Category: Environmental Chemistry
Impact index in year of publication: 2.803
Journal in the top 25%: Yes
Position of publication: 8
No. of journals in the cat.: 146

Impact source: SCOPUS
Category: Industrial and Manufacturing Engineering
Impact index in year of publication: 2.803
Journal in the top 25%: Yes
Position of publication: 7
No. of journals in the cat.: 372

Source of citations: SCOPUS
Citations: 34

Source of citations: WOS
Citations: 33

9 Arcenegui-Troya, Juan; Durán-Martín, Jonatan D.; Perejón, Antonio; Valverde, José M.; Pérez Maqueda, Luis A.; Sánchez Jiménez, Pedro E.. Overlooked pitfalls in CaO carbonation kinetics studies nearby equilibrium: Instrumental effects on calculated kinetic rate constants. Alexandria Engineering Journal. 61 - 8, pp. 6129 - 6138. 2022. Available on-line at: <https://doi.org/10.1016/j.aej.2021.11.043>. ISSN 1110-0168

DOI: 10.1016/j.aej.2021.11.043
Handle: 11441/136494
Código WOS: WOS:000779408600008
Código Scopus: 85120824937
Type of production: Scientific paper
Format: Journal
Position of signature: 4
Total no. authors: 6

Impact source: ISI
Category: Science Edition - ENGINEERING, MULTIDISCIPLINARY
Impact index in year of publication: 6.800
Journal in the top 25%: Yes
Position of publication: 8
No. of journals in the cat.: 90

Impact source: SCOPUS
Category: Engineering (miscellaneous)
Impact index in year of publication: 0.933
Journal in the top 25%: Yes
Position of publication: 57
No. of journals in the cat.: 468

Source of citations: SCOPUS
Citations: 4

Source of citations: WOS
Citations: 3

10 Arcenegui-Troya, Juan; Sánchez-Jiménez, Pedro Enrique; Perejón, Antonio; Valverde, José Manuel; Pérez-Maqueda, Luis Allan. Steam-enhanced calcium-looping performance of limestone for thermochemical energy storage: the role of particle size. Journal of Energy Storage. 51, ELSEVIER; Elsevier BV, 2022. Available on-line at: <https://doi.org/10.1016/j.est.2022.104305>. ISSN 2352-152X, ISSN 2352-1538

DOI: 10.1016/j.est.2022.104305
Handle: 11441/137257
Código WOS: WOS:000780282700005
Código Scopus: 85125732952
Type of production: Scientific paper
Format: Journal
Position of signature: 4
Total no. authors: 5

Impact source: ISI
Category: Science Edition - ENERGY & FUELS
Impact index in year of publication: 9.400
Journal in the top 25%: Yes
Position of publication: 19
No. of journals in the cat.: 119

Impact source: SCOPUS
Category: Electrical and Electronic Engineering
Impact index in year of publication: 1.456
Journal in the top 25%: Yes
Position of publication: 93
No. of journals in the cat.: 733

Impact source: SCOPUS
Category: Energy Engineering and Power Technology
Impact index in year of publication: 1.456
Journal in the top 25%: Yes
Position of publication: 38
No. of journals in the cat.: 253

Impact source: SCOPUS
Category: Renewable Energy, Sustainability and the Environment
Impact index in year of publication: 1.456
Journal in the top 25%: Yes
Position of publication: 44
No. of journals in the cat.: 243

Source of citations: SCOPUS
Citations: 23

Source of citations: WOS
Citations: 23

11 Imani, Mehri; Tahmasebpoor, Maryam; Sánchez-Jiménez, Pedro Enrique; Valverde, Jose Manuel; Moreno, Virginia. Improvement in cyclic CO2 capture performance and fluidization behavior of eggshell-derived CaCO3 particles modified with acetic acid used in calcium looping process. JOURNAL OF CO2 UTILIZATION. 65, ELSEVIER SCI LTD, 2022. Available on-line at: <https://doi.org/10.1016/j.jcou.2022.102207>. ISSN 2212-9820, ISSN 2212-9839

DOI: 10.1016/j.jcou.2022.102207
Código WOS: WOS:000861063400004
Código Scopus: 85137159552
Type of production: Scientific paper
Format: Journal
Position of signature: 4
Total no. authors: 5

Impact source: ISI
Category: Science Edition - CHEMISTRY, MULTIDISCIPLINARY
Impact index in year of publication: 7.700
Journal in the top 25%: Yes
Position of publication: 37
No. of journals in the cat.: 178

Impact source: ISI
Category: Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 7.700
Journal in the top 25%: Yes
Position of publication: 16
No. of journals in the cat.: 142

Impact source: SCOPUS
Category: Chemical Engineering (miscellaneous)
Impact index in year of publication: 1.433
Journal in the top 25%: Yes

Position of publication: 26
No. of journals in the cat.: 343

Impact source: SCOPUS
Category: Process Chemistry and Technology
Impact index in year of publication: 1.433
Journal in the top 25%: Yes
Position of publication: 7
No. of journals in the cat.: 71

Impact source: SCOPUS
Category: Waste Management and Disposal
Impact index in year of publication: 1.433
Journal in the top 25%: Yes
Position of publication: 20
No. of journals in the cat.: 128

Source of citations: SCOPUS
Citations: 28

Source of citations: WOS
Citations: 25

12 Arcenegui Troya, Juan Jesús; Moreno, Virginia; Sánchez-Jiménez, Pedro E.; Perejón, Antonio; Valverde, José Manuel; Pérez-Maqueda, Luis A.. Effect of steam injection during carbonation on the multicyclic performance of limestone (CaCO3) under different calcium looping conditions: a comparative study. ACS SUSTAINABLE CHEMISTRY & ENGINEERING. 10 - 2, pp. 850 - 859. AMER CHEMICAL SOC, 2022. Available on-line at: <https://doi.org/10.1021/acssuschemeng.1c06314>. ISSN 2168-0485

DOI: 10.1021/acssuschemeng.1c06314
Handle: 11441/130737
Código WOS: WOS:000742159500001
Código Scopus: 85122733950
Type of production: Scientific paper
Format: Journal
Position of signature: 5
Total no. authors: 6

Impact source: ISI
Category: Science Edition - CHEMISTRY, MULTIDISCIPLINARY
Impact index in year of publication: 8.400
Journal in the top 25%: Yes
Position of publication: 32
No. of journals in the cat.: 178

Impact source: ISI
Category: Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 8.400
Journal in the top 25%: Yes
Position of publication: 13
No. of journals in the cat.: 142

Impact source: ISI
Category: Science Edition - GREEN & SUSTAINABLE SCIENCE & TECHNOLOGY
Impact index in year of publication: 8.400
Journal in the top 25%: No
Position of publication: 14
No. of journals in the cat.: 46

Impact source: SCOPUS
Category: Chemical Engineering (miscellaneous)
Impact index in year of publication: 1.744
Journal in the top 25%: Yes
Position of publication: 19
No. of journals in the cat.: 343

Impact source: SCOPUS
Category: Chemistry (miscellaneous)
Impact index in year of publication: 1.744
Journal in the top 25%: Yes
Position of publication: 41
No. of journals in the cat.: 498

Impact source: SCOPUS
Category: Environmental Chemistry
Impact index in year of publication: 1.744
Journal in the top 25%: Yes
Position of publication: 20
No. of journals in the cat.: 146

Impact source: SCOPUS
Category: Renewable Energy, Sustainability and the Environment

Impact index in year of publication: 1.744
Position of publication: 35
Journal in the top 25%: Yes
No. of journals in the cat.: 243

Source of citations: SCOPUS
Citations: 29

Source of citations: WOS
Citations: 28

13 Moreno, Virginia; Arcenegui-Troya, Juan; Sánchez-Jiménez, Pedro Enrique; Perejón, Antonio; Chacartegui, Ricardo; Valverde, José Manuel; Allan Pérez-Maqueda, Luis. Albero: An alternative natural material for solar energy storage by the calcium-looping process. CHEMICAL ENGINEERING JOURNAL. 440, Elsevier Science; ELSEVIER SCIENCE SA, 2022. Available on-line at: <https://doi.org/10.1016/j.cej.2022.135707>. ISSN 1385-8947, ISSN 1873-3212
DOI: 10.1016/j.cej.2022.135707
Handle: 11441/135049
Código WOS: WOS:000783208300005
Código Scopus: 85126599675
Type of production: Scientific paper
Format: Journal
Position of signature: 6
Total no. authors: 7

Impact source: ISI
Category: Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 15.100
Position of publication: 5
Journal in the top 25%: Yes
No. of journals in the cat.: 142

Impact source: ISI
Category: Science Edition - ENGINEERING, ENVIRONMENTAL
Impact index in year of publication: 15.100
Position of publication: 3
Journal in the top 25%: Yes
No. of journals in the cat.: 55

Impact source: SCOPUS
Category: Chemical Engineering (miscellaneous)
Impact index in year of publication: 2.803
Position of publication: 12
Journal in the top 25%: Yes
No. of journals in the cat.: 343

Impact source: SCOPUS
Category: Chemistry (miscellaneous)
Impact index in year of publication: 2.803
Position of publication: 28
Journal in the top 25%: Yes
No. of journals in the cat.: 498

Impact source: SCOPUS
Category: Environmental Chemistry
Impact index in year of publication: 2.803
Position of publication: 8
Journal in the top 25%: Yes
No. of journals in the cat.: 146

Impact source: SCOPUS
Category: Industrial and Manufacturing Engineering
Impact index in year of publication: 2.803
Position of publication: 7
Journal in the top 25%: Yes
No. of journals in the cat.: 372

Source of citations: SCOPUS
Citations: 21

Source of citations: WOS
Citations: 18

14 Ortiz, C.; Carro, A.; Chacartegui, R.; Valverde, J. M.; Perejón, A.; Sánchez-Jiménez, P. E.; Pérez-Maqueda, L. A.. Low-pressure calcination to enhance the calcium looping process for thermochemical energy storage. JOURNAL OF CLEANER PRODUCTION. 363, ELSEVIER SCI LTD, 2022. Available on-line at: <https://doi.org/10.1016/j.jclepro.2022.132295>. ISSN 0959-6526, ISSN 1879-1786
DOI: 10.1016/j.jclepro.2022.132295
Handle: 11441/165826
Código WOS: WOS:001096167000002

Código Scopus: 85131064081
Type of production: Scientific paper
Format: Journal
Position of signature: 4
Total no. authors: 7

Impact source: ISI
Category: Science Edition - ENGINEERING, ENVIRONMENTAL
Impact index in year of publication: 11.100
Journal in the top 25%: Yes
Position of publication: 8
No. of journals in the cat.: 55

Impact source: ISI
Category: Science Edition - ENVIRONMENTAL SCIENCES
Impact index in year of publication: 11.100
Journal in the top 25%: Yes
Position of publication: 22
No. of journals in the cat.: 275

Impact source: ISI
Category: Science Edition - GREEN & SUSTAINABLE SCIENCE & TECHNOLOGY
Impact index in year of publication: 11.100
Journal in the top 25%: Yes
Position of publication: 8
No. of journals in the cat.: 46

Impact source: SCOPUS
Category: Environmental Science (miscellaneous)
Impact index in year of publication: 1.981
Journal in the top 25%: Yes
Position of publication: 20
No. of journals in the cat.: 421

Impact source: SCOPUS
Category: Industrial and Manufacturing Engineering
Impact index in year of publication: 1.981
Journal in the top 25%: Yes
Position of publication: 20
No. of journals in the cat.: 372

Impact source: SCOPUS
Category: Renewable Energy, Sustainability and the Environment
Impact index in year of publication: 1.981
Journal in the top 25%: Yes
Position of publication: 28
No. of journals in the cat.: 243

Impact source: SCOPUS
Category: Strategy and Management
Impact index in year of publication: 1.981
Journal in the top 25%: Yes
Position of publication: 48
No. of journals in the cat.: 485

Source of citations: SCOPUS
Citations: 18

Source of citations: WOS
Citations: 17

15 Moreno, Helena; Pontiga, Francisco; Valverde, José M.. Low concentration CO2 capture in fluidized beds of Ca(OH)2 as affected by storage humidity. CHEMICAL ENGINEERING JOURNAL. 407, Elsevier Science; ELSEVIER SCIENCE SA, 2021. Available on-line at: <https://doi.org/10.1016/j.cej.2020.127179>. ISSN 1385-8947, ISSN 1873-3212

DOI: 10.1016/j.cej.2020.127179
Handle: 11441/153412
Código WOS: WOS:000607586800007
Código Scopus: 85092448053
Type of production: Scientific paper
Format: Journal
Position of signature: 3
Total no. authors: 3

Impact source: ISI
Category: Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 16.744
Journal in the top 25%: Yes

Position of publication: 4
No. of journals in the cat.: 143

Impact source: ISI
Category: Science Edition - ENGINEERING, ENVIRONMENTAL
Impact index in year of publication: 16.744
Journal in the top 25%: Yes
Position of publication: 2
No. of journals in the cat.: 54

Impact source: SCOPUS
Category: Chemical Engineering (miscellaneous)
Impact index in year of publication: 2.419
Journal in the top 25%: Yes
Position of publication: 10
No. of journals in the cat.: 356

Impact source: SCOPUS
Category: Chemistry (miscellaneous)
Impact index in year of publication: 2.419
Journal in the top 25%: Yes
Position of publication: 29
No. of journals in the cat.: 495

Impact source: SCOPUS
Category: Environmental Chemistry
Impact index in year of publication: 2.419
Journal in the top 25%: Yes
Position of publication: 8
No. of journals in the cat.: 143

Impact source: SCOPUS
Category: Industrial and Manufacturing Engineering
Impact index in year of publication: 2.419
Journal in the top 25%: Yes
Position of publication: 10
No. of journals in the cat.: 384

Source of citations: SCOPUS
Citations: 13

Source of citations: WOS
Citations: 12

16 Ortiz, C.; Chacartegui, R.; Valverde, J. M.; Carro Paulete, Andrés; Tejada, C.; Valverde, J.. Increasing the solar share in combined cycles through thermochemical energy storage. ENERGY CONVERSION AND MANAGEMENT. 229, PERGAMON-ELSEVIER SCIENCE LTD, 2021. Available on-line at: <https://doi.org/10.1016/j.enconman.2020.113730>. ISSN 0196-8904, ISSN 1879-2227

DOI: 10.1016/j.enconman.2020.113730
Handle: 11441/103414
Código WOS: WOS:000614049500001
Código Scopus: 85098603037
Type of production: Scientific paper
Format: Journal
Position of signature: 3
Total no. authors: 6

Impact source: ISI
Category: Science Edition - ENERGY & FUELS
Impact index in year of publication: 11.533
Journal in the top 25%: Yes
Position of publication: 14
No. of journals in the cat.: 119

Impact source: ISI
Category: Science Edition - MECHANICS
Impact index in year of publication: 11.533
Journal in the top 25%: Yes
Position of publication: 3
No. of journals in the cat.: 138

Impact source: ISI
Category: Science Edition - THERMODYNAMICS
Impact index in year of publication: 11.533
Journal in the top 25%: Yes
Position of publication: 2
No. of journals in the cat.: 63

Impact source: SCOPUS
Category: Energy Engineering and Power Technology
Impact index in year of publication: 2.829
Journal in the top 25%: Yes
Position of publication: 8
No. of journals in the cat.: 254

Impact source: SCOPUS
Category: Fuel Technology

Impact index in year of publication: 2.829
Position of publication: 4
Journal in the top 25%: Yes
No. of journals in the cat.: 123

Impact source: SCOPUS
Impact index in year of publication: 2.829
Position of publication: 2
Category: Nuclear Energy and Engineering
Journal in the top 25%: Yes
No. of journals in the cat.: 75

Impact source: SCOPUS
Impact index in year of publication: 2.829
Position of publication: 13
Category: Renewable Energy, Sustainability and the Environment
Journal in the top 25%: Yes
No. of journals in the cat.: 239

Source of citations: SCOPUS
Citations: 35

Source of citations: WOS
Citations: 33

17 Ortiz, C.; Tejada, C.; Chacartegui, R.; Bravo, R.; Carro, A.; Valverde, J. M.; Valverde, J.. Solar combined cycle with high-temperature thermochemical energy storage. ENERGY CONVERSION AND MANAGEMENT. 241, PERGAMON-ELSEVIER SCIENCE LTD, 2021. Available on-line at: <https://doi.org/10.1016/j.enconman.2021.114274>. ISSN 0196-8904, ISSN 1879-2227
DOI: 10.1016/j.enconman.2021.114274
Handle: 11441/128550
Código WOS: WOS:000660474100003
Código Scopus: 85107142781
Type of production: Scientific paper
Format: Journal
Position of signature: 6
Total no. authors: 7

Impact source: ISI
Impact index in year of publication: 11.533
Position of publication: 14
Category: Science Edition - ENERGY & FUELS
Journal in the top 25%: Yes
No. of journals in the cat.: 119

Impact source: ISI
Impact index in year of publication: 11.533
Position of publication: 3
Category: Science Edition - MECHANICS
Journal in the top 25%: Yes
No. of journals in the cat.: 138

Impact source: ISI
Impact index in year of publication: 11.533
Position of publication: 2
Category: Science Edition - THERMODYNAMICS
Journal in the top 25%: Yes
No. of journals in the cat.: 63

Impact source: SCOPUS
Impact index in year of publication: 2.829
Position of publication: 8
Category: Energy Engineering and Power Technology
Journal in the top 25%: Yes
No. of journals in the cat.: 254

Impact source: SCOPUS
Impact index in year of publication: 2.829
Position of publication: 4
Category: Fuel Technology
Journal in the top 25%: Yes
No. of journals in the cat.: 123

Impact source: SCOPUS
Impact index in year of publication: 2.829
Position of publication: 2
Category: Nuclear Energy and Engineering
Journal in the top 25%: Yes
No. of journals in the cat.: 75

Impact source: SCOPUS
Impact index in year of publication: 2.829
Position of publication: 13
Category: Renewable Energy, Sustainability and the Environment
Journal in the top 25%: Yes
No. of journals in the cat.: 239

Source of citations: SCOPUS **Citations:** 42

Source of citations: WOS **Citations:** 38

18 Arcenegui-Troya, Juan; Sánchez-Jiménez, Pedro Enrique; Perejón, Antonio; Moreno, Virginia; Valverde, José Manuel; Pérez-Maqueda, Luis Allan. Kinetics and cyclability of limestone (CaCO3) in presence of steam during calcination in the CaL scheme for thermochemical energy storage. CHEMICAL ENGINEERING JOURNAL. 417, Elsevier Science; ELSEVIER SCIENCE SA, 2021. Available on-line at: <https://doi.org/10.1016/j.cej.2021.129194>. ISSN 1385-8947, ISSN 1873-3212

DOI: 10.1016/j.cej.2021.129194
Handle: 11441/116294
Código WOS: WOS:000653229500198
Código Scopus: 85103007727
Type of production: Scientific paper **Format:** Journal
Position of signature: 5
Total no. authors: 6

Impact source: ISI **Category:** Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 16.744 **Journal in the top 25%:** Yes
Position of publication: 4 **No. of journals in the cat.:** 143

Impact source: ISI **Category:** Science Edition - ENGINEERING, ENVIRONMENTAL
Impact index in year of publication: 16.744 **Journal in the top 25%:** Yes
Position of publication: 2 **No. of journals in the cat.:** 54

Impact source: SCOPUS **Category:** Chemical Engineering (miscellaneous)
Impact index in year of publication: 2.419 **Journal in the top 25%:** Yes
Position of publication: 10 **No. of journals in the cat.:** 356

Impact source: SCOPUS **Category:** Chemistry (miscellaneous)
Impact index in year of publication: 2.419 **Journal in the top 25%:** Yes
Position of publication: 29 **No. of journals in the cat.:** 495

Impact source: SCOPUS **Category:** Environmental Chemistry
Impact index in year of publication: 2.419 **Journal in the top 25%:** Yes
Position of publication: 8 **No. of journals in the cat.:** 143

Impact source: SCOPUS **Category:** Industrial and Manufacturing Engineering
Impact index in year of publication: 2.419 **Journal in the top 25%:** Yes
Position of publication: 10 **No. of journals in the cat.:** 384

Source of citations: SCOPUS **Citations:** 59

Source of citations: WOS **Citations:** 55

19 Durán-Olivencia, F. J.; P. Ebri, J. M.; Espín, M. J.; Valverde, J. M.. The cohesive behavior of granular solids at high temperature in solar energy storage. ENERGY CONVERSION AND MANAGEMENT. 240, PERGAMON-ELSEVIER SCIENCE LTD, 2021. Available on-line at: <https://doi.org/10.1016/j.enconman.2021.114217>. ISSN 0196-8904, ISSN 1879-2227

DOI: 10.1016/j.enconman.2021.114217
Código WOS: WOS:000657730000002
Código Scopus: 85111037025
Type of production: Scientific paper **Format:** Journal

Position of signature: 4
Total no. authors: 4

Impact source: ISI
Impact index in year of publication: 11.533
Position of publication: 14
Category: Science Edition - ENERGY & FUELS
Journal in the top 25%: Yes
No. of journals in the cat.: 119

Impact source: ISI
Impact index in year of publication: 11.533
Position of publication: 3
Category: Science Edition - MECHANICS
Journal in the top 25%: Yes
No. of journals in the cat.: 138

Impact source: ISI
Impact index in year of publication: 11.533
Position of publication: 2
Category: Science Edition - THERMODYNAMICS
Journal in the top 25%: Yes
No. of journals in the cat.: 63

Impact source: SCOPUS
Impact index in year of publication: 2.829
Position of publication: 8
Category: Energy Engineering and Power Technology
Journal in the top 25%: Yes
No. of journals in the cat.: 254

Impact source: SCOPUS
Impact index in year of publication: 2.829
Position of publication: 4
Category: Fuel Technology
Journal in the top 25%: Yes
No. of journals in the cat.: 123

Impact source: SCOPUS
Impact index in year of publication: 2.829
Position of publication: 2
Category: Nuclear Energy and Engineering
Journal in the top 25%: Yes
No. of journals in the cat.: 75

Impact source: SCOPUS
Impact index in year of publication: 2.829
Position of publication: 13
Category: Renewable Energy, Sustainability and the Environment
Journal in the top 25%: Yes
No. of journals in the cat.: 239

Source of citations: SCOPUS
Citations: 19

Source of citations: WOS
Citations: 18

20 Ortiz, Carlos; Valverde, José Manuel; Chacartegui, Ricardo; Pérez-Maqueda, Luis A.; Giménez-Gavarrell, Pau. Scaling-up the calcium-looping process for CO₂ capture and energy storage. KONA Powder and Particle Journal. 38, pp. 189 - 208. Hosokawa Powder Technology Foundation, 2021. Available on-line at: <https://doi.org/10.14356/kona.2021005>. ISSN 0288-4534, ISSN 2187-5537
DOI: 10.14356/kona.2021005
Handle: 11441/107160
Código WOS: WOS:000702827000004
Código Scopus: 85098602932
Type of production: Scientific paper
Format: Journal
Position of signature: 2
Total no. authors: 5

Impact source: ISI
Impact index in year of publication: 3.919
Position of publication: 61
Category: Science Edition - ENGINEERING, CHEMICAL
Journal in the top 25%: No
No. of journals in the cat.: 143

Impact source: ISI
Impact index in year of publication: 3.919
Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
Journal in the top 25%: No

Position of publication: 162 **No. of journals in the cat.:** 345

Impact source: SCOPUS **Category:** Chemical Engineering (miscellaneous)
Impact index in year of publication: 0.475 **Journal in the top 25%:** No
Position of publication: 120 **No. of journals in the cat.:** 356

Impact source: SCOPUS **Category:** Chemistry (miscellaneous)
Impact index in year of publication: 0.475 **Journal in the top 25%:** No
Position of publication: 173 **No. of journals in the cat.:** 495

Impact source: SCOPUS **Category:** Engineering (miscellaneous)
Impact index in year of publication: 0.475 **Journal in the top 25%:** No
Position of publication: 135 **No. of journals in the cat.:** 476

Impact source: SCOPUS **Category:** Materials Science (miscellaneous)
Impact index in year of publication: 0.475 **Journal in the top 25%:** No
Position of publication: 257 **No. of journals in the cat.:** 641

Source of citations: SCOPUS **Citations:** 43

Source of citations: WOS **Citations:** 43

21 Sattari, Fardin; Tahmasebpoor, Maryam; Valverde, José Manuel; Ortiz, Carlos; Mohammadpourfard, Mousa. Modelling of a fluidized bed carbonator reactor for post-combustion CO2 capture considering bed hydrodynamics and sorbent characteristics. CHEMICAL ENGINEERING JOURNAL. 406, Elsevier Science; ELSEVIER SCIENCE SA, 2021. Available on-line at: <https://doi.org/10.1016/j.cej.2020.126762>. ISSN 1385-8947, ISSN 1873-3212
DOI: 10.1016/j.cej.2020.126762
Código WOS: WOS:000609014100003
Código Scopus: 85089999613
Type of production: Scientific paper **Format:** Journal
Position of signature: 3
Total no. authors: 5

Impact source: ISI **Category:** Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 16.744 **Journal in the top 25%:** Yes
Position of publication: 4 **No. of journals in the cat.:** 143

Impact source: ISI **Category:** Science Edition - ENGINEERING, ENVIRONMENTAL
Impact index in year of publication: 16.744 **Journal in the top 25%:** Yes
Position of publication: 2 **No. of journals in the cat.:** 54

Impact source: SCOPUS **Category:** Chemical Engineering (miscellaneous)
Impact index in year of publication: 2.419 **Journal in the top 25%:** Yes
Position of publication: 10 **No. of journals in the cat.:** 356

Impact source: SCOPUS **Category:** Chemistry (miscellaneous)
Impact index in year of publication: 2.419 **Journal in the top 25%:** Yes
Position of publication: 29 **No. of journals in the cat.:** 495

Impact source: SCOPUS **Category:** Environmental Chemistry
Impact index in year of publication: 2.419 **Journal in the top 25%:** Yes
Position of publication: 8 **No. of journals in the cat.:** 143

Impact source: SCOPUS **Category:** Industrial and Manufacturing Engineering

Impact index in year of publication: 2.419
Position of publication: 10
Journal in the top 25%: Yes
No. of journals in the cat.: 384

Source of citations: SCOPUS
Citations: 21

Source of citations: WOS
Citations: 20

22 Sarrión, Beatriz; Perejón, Antonio; Sánchez-Jiménez, Pedro E.; Amghar, Nabil; Chacartegui, Ricardo; Valverde, José Manuel; Pérez-Maqueda, Luis A.. Calcination under low CO2 pressure enhances the calcium Looping performance of limestone for thermochemical energy storage. CHEMICAL ENGINEERING JOURNAL. 417, Elsevier Science; ELSEVIER SCIENCE SA, 2021. Available on-line at: <https://doi.org/10.1016/j.cej.2020.127922>. ISSN 1385-8947, ISSN 1873-3212
DOI: 10.1016/j.cej.2020.127922
Handle: 11441/116269
Código WOS: WOS:000653229500021
Código Scopus: 85097769635
Type of production: Scientific paper
Format: Journal
Position of signature: 6
Total no. authors: 7

Impact source: ISI
Category: Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 16.744
Position of publication: 4
Journal in the top 25%: Yes
No. of journals in the cat.: 143

Impact source: ISI
Category: Science Edition - ENGINEERING, ENVIRONMENTAL
Impact index in year of publication: 16.744
Position of publication: 2
Journal in the top 25%: Yes
No. of journals in the cat.: 54

Impact source: SCOPUS
Category: Chemical Engineering (miscellaneous)
Impact index in year of publication: 2.419
Position of publication: 10
Journal in the top 25%: Yes
No. of journals in the cat.: 356

Impact source: SCOPUS
Category: Chemistry (miscellaneous)
Impact index in year of publication: 2.419
Position of publication: 29
Journal in the top 25%: Yes
No. of journals in the cat.: 495

Impact source: SCOPUS
Category: Environmental Chemistry
Impact index in year of publication: 2.419
Position of publication: 8
Journal in the top 25%: Yes
No. of journals in the cat.: 143

Impact source: SCOPUS
Category: Industrial and Manufacturing Engineering
Impact index in year of publication: 2.419
Position of publication: 10
Journal in the top 25%: Yes
No. of journals in the cat.: 384

Source of citations: SCOPUS
Citations: 34

Source of citations: WOS
Citations: 31

23 Gannoun, R.; P. Ebrí, J. M.; Pérez, A. T.; Espín, M. J.; Durán-Olivencia, F. J.; Valverde, J. M.. Nanosilica to improve the flowability of fine limestone powders in thermochemical storage units. CHEMICAL ENGINEERING JOURNAL. 426, Elsevier Science; ELSEVIER SCIENCE SA, 2021. Available on-line at: <https://doi.org/10.1016/j.cej.2021.131789>. ISSN 1385-8947, ISSN 1873-3212
DOI: 10.1016/j.cej.2021.131789
Handle: 11441/128773

Código WOS: WOS:000724544600003
Código Scopus: 85113368023
Type of production: Scientific paper
Format: Journal
Position of signature: 6
Total no. authors: 6
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 16.744
Journal in the top 25%: Yes
Position of publication: 4
No. of journals in the cat.: 143
Impact source: ISI
Category: Science Edition - ENGINEERING, ENVIRONMENTAL
Impact index in year of publication: 16.744
Journal in the top 25%: Yes
Position of publication: 2
No. of journals in the cat.: 54
Impact source: SCOPUS
Category: Chemical Engineering (miscellaneous)
Impact index in year of publication: 2.419
Journal in the top 25%: Yes
Position of publication: 10
No. of journals in the cat.: 356
Impact source: SCOPUS
Category: Chemistry (miscellaneous)
Impact index in year of publication: 2.419
Journal in the top 25%: Yes
Position of publication: 29
No. of journals in the cat.: 495
Impact source: SCOPUS
Category: Environmental Chemistry
Impact index in year of publication: 2.419
Journal in the top 25%: Yes
Position of publication: 8
No. of journals in the cat.: 143
Impact source: SCOPUS
Category: Industrial and Manufacturing Engineering
Impact index in year of publication: 2.419
Journal in the top 25%: Yes
Position of publication: 10
No. of journals in the cat.: 384
Source of citations: SCOPUS
Citations: 15
Source of citations: WOS
Citations: 15

24 Durán-Olivencia, F. J.; Espín, M. J.; Valverde, J. M.. Cross effect between temperature and consolidation on the flow behavior of granular materials in thermal energy storage systems. POWDER TECHNOLOGY. 363, pp. 135 - 145. ELSEVIER SCIENCE BV; ELSEVIER, 2020. Available on-line at: <https://doi.org/10.1016/j.powtec.2019.11.125>. ISSN 0032-5910, ISSN 1873-328X
DOI: 10.1016/j.powtec.2019.11.125
Código WOS: WOS:000527962700013
Código Scopus: 85077951336
Type of production: Scientific paper
Format: Journal
Position of signature: 3
Total no. authors: 3
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 5.134
Journal in the top 25%: Yes
Position of publication: 30
No. of journals in the cat.: 143
Impact source: SCOPUS
Category: Chemical Engineering (miscellaneous)
Impact index in year of publication: 1.079
Journal in the top 25%: Yes
Position of publication: 40
No. of journals in the cat.: 351
Source of citations: SCOPUS
Citations: 18

Source of citations: WOS **Citations:** 17

25 Arcenegui-Troya, Juan; Sánchez-Jiménez, Pedro Enrique; Perejon, Antonio; Valverde, Jose Manuel; Chacartegui, Ricardo; Pérez-Maqueda, Luis Allan. Calcium-Looping Performance of Biomineralized CaCO3 for CO2 Capture and Thermochemical Energy Storage. INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH. 59 - 29, pp. 12924 - 12933. AMER CHEMICAL SOC, 2020. Available on-line at: <https://doi.org/10.1021/acs.iecr.9b05997>. ISSN 0888-5885, ISSN 1520-5045

DOI: 10.1021/acs.iecr.9b05997
Handle: 11441/107602
Código WOS: WOS:000555417700002
Código Scopus: 85089432579
Type of production: Scientific paper **Format:** Journal
Position of signature: 4
Total no. authors: 6

Impact source: ISI **Category:** Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 3.764 **Journal in the top 25%:** No
Position of publication: 50 **No. of journals in the cat.:** 143

Impact source: SCOPUS **Category:** Chemical Engineering (miscellaneous)
Impact index in year of publication: 0.878 **Journal in the top 25%:** Yes
Position of publication: 53 **No. of journals in the cat.:** 351

Impact source: SCOPUS **Category:** Chemistry (miscellaneous)
Impact index in year of publication: 0.878 **Journal in the top 25%:** Yes
Position of publication: 88 **No. of journals in the cat.:** 487

Impact source: SCOPUS **Category:** Industrial and Manufacturing Engineering
Impact index in year of publication: 0.878 **Journal in the top 25%:** Yes
Position of publication: 59 **No. of journals in the cat.:** 387

Source of citations: SCOPUS **Citations:** 35

Source of citations: WOS **Citations:** 34

26 Durán-Martín, Jonatan D.; Sánchez Jimenez, Pedro E.; Valverde, José M.; Perejón, Antonio; Arcenegui-Troya, Juan; García Triñanes, Pablo; Pérez Maqueda, Luis A.. Role of particle size on the multicycle calcium looping activity of limestone for thermochemical energy storage. Journal of Advanced Research. 22, pp. 67 - 76. ELSEVIER, 2020. Available on-line at: <https://doi.org/10.1016/j.jare.2019.10.008>. ISSN 2090-1232, ISSN 2090-1224

DOI: 10.1016/j.jare.2019.10.008
Handle: 11441/92848
PMID: 31956443
Código WOS: WOS:000514801100007
Código Scopus: 85077721801
Type of production: Scientific paper **Format:** Journal
Position of signature: 3
Total no. authors: 7

Impact source: ISI **Category:** Science Edition - MULTIDISCIPLINARY SCIENCES
Impact index in year of publication: 10.479 **Journal in the top 25%:** Yes
Position of publication: 9 **No. of journals in the cat.:** 72

Impact source: SCOPUS **Category:** Multidisciplinary

Impact index in year of publication: 1.659
Position of publication: 9
Journal in the top 25%: Yes
No. of journals in the cat.: 162

Source of citations: SCOPUS
Citations: 74

Source of citations: WOS
Citations: 67

27 Medina-Carrasco, Santiago; Valverde, Jose Manuel. In situ XRD analysis of dolomite calcination under CO2in a humid environment. CRYSTENGCOMM. 22 - 39, pp. 6502 - 6516. ROYAL SOC CHEMISTRY, 2020. Available on-line at: <https://doi.org/10.1039/d0ce00974a>. ISSN 1466-8033
DOI: 10.1039/d0ce00974a
Código WOS: WOS:000576731400008
Código Scopus: 85092503158
Type of production: Scientific paper
Format: Journal
Position of signature: 2
Total no. authors: 2

Impact source: ISI
Category: Science Edition - CHEMISTRY, MULTIDISCIPLINARY
Impact index in year of publication: 3.545
Position of publication: 76
Journal in the top 25%: No
No. of journals in the cat.: 178

Impact source: ISI
Category: Science Edition - CRYSTALLOGRAPHY
Impact index in year of publication: 3.545
Position of publication: 6
Journal in the top 25%: Yes
No. of journals in the cat.: 25

Impact source: SCOPUS
Category: Chemistry (miscellaneous)
Impact index in year of publication: 0.813
Position of publication: 94
Journal in the top 25%: Yes
No. of journals in the cat.: 487

Impact source: SCOPUS
Category: Condensed Matter Physics
Impact index in year of publication: 0.813
Position of publication: 97
Journal in the top 25%: Yes
No. of journals in the cat.: 439

Impact source: SCOPUS
Category: Materials Science (miscellaneous)
Impact index in year of publication: 0.813
Position of publication: 145
Journal in the top 25%: No
No. of journals in the cat.: 644

Source of citations: SCOPUS
Citations: 10

Source of citations: WOS
Citations: 9

28 Espin, M. J.; Duran-Olivencia, F. J.; Valverde, J. M.. Role of particle size on the cohesive behavior of limestone powders at high temperature. CHEMICAL ENGINEERING JOURNAL. 391, Elsevier Science; ELSEVIER SCIENCE SA, 2020. Available on-line at: <https://doi.org/10.1016/j.cej.2019.123520>. ISSN 1385-8947, ISSN 1873-3212
DOI: 10.1016/j.cej.2019.123520
Handle: 11441/165830
Código WOS: WOS:000544679100001
Código Scopus: 85076539125
Type of production: Scientific paper
Format: Journal
Position of signature: 3
Total no. authors: 3
Corresponding author: Yes

Impact source: ISI
Category: Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 13.273
Journal in the top 25%: Yes

Position of publication: 4 — **No. of journals in the cat.:** 143

Impact source: ISI — **Category:** Science Edition - ENGINEERING, ENVIRONMENTAL
Impact index in year of publication: 13.273 — **Journal in the top 25%:** Yes
Position of publication: 2 — **No. of journals in the cat.:** 54

Impact source: SCOPUS — **Category:** Chemical Engineering (miscellaneous)
Impact index in year of publication: 2.528 — **Journal in the top 25%:** Yes
Position of publication: 11 — **No. of journals in the cat.:** 351

Impact source: SCOPUS — **Category:** Chemistry (miscellaneous)
Impact index in year of publication: 2.528 — **Journal in the top 25%:** Yes
Position of publication: 30 — **No. of journals in the cat.:** 487

Impact source: SCOPUS — **Category:** Environmental Chemistry
Impact index in year of publication: 2.528 — **Journal in the top 25%:** Yes
Position of publication: 8 — **No. of journals in the cat.:** 139

Impact source: SCOPUS — **Category:** Industrial and Manufacturing Engineering
Impact index in year of publication: 2.528 — **Journal in the top 25%:** Yes
Position of publication: 5 — **No. of journals in the cat.:** 387

Source of citations: SCOPUS — **Citations:** 10

Source of citations: WOS — **Citations:** 11

29 Sánchez Jiménez, Pedro E.; Perejón, Antonio; Benítez Guerrero, Mónica; Valverde, José M.; Ortiz, Carlos; Pérez Maqueda, Luis A.. High-performance and low-cost macroporous calcium oxide based materials for thermochemical energy storage in concentrated solar power plants. APPLIED ENERGY. 235, pp. 543 - 552. ELSEVIER SCI LTD; Elsevier BV, 2019. Available on-line at: <https://doi.org/10.1016/j.apenergy.2018.10.131>. ISSN 0306-2619, ISSN 1872-9118

DOI: 10.1016/j.apenergy.2018.10.131
Handle: 11441/142558
Código WOS: WOS:000458942800045
Código Scopus: 85056249071
Type of production: Scientific paper — **Format:** Journal
Position of signature: 4
Total no. authors: 6

Impact source: ISI — **Category:** Science Edition - ENERGY & FUELS
Impact index in year of publication: 8.848 — **Journal in the top 25%:** Yes
Position of publication: 9 — **No. of journals in the cat.:** 112

Impact source: ISI — **Category:** Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 8.848 — **Journal in the top 25%:** Yes
Position of publication: 6 — **No. of journals in the cat.:** 143

Impact source: SCOPUS — **Category:** Building and Construction
Impact index in year of publication: 3.607 — **Journal in the top 25%:** Yes
Position of publication: 2 — **No. of journals in the cat.:** 215

Impact source: SCOPUS — **Category:** Civil and Structural Engineering
Impact index in year of publication: 3.607 — **Journal in the top 25%:** Yes
Position of publication: 1 — **No. of journals in the cat.:** 322

Impact source: SCOPUS
Impact index in year of publication: 3.607
Position of publication: 3
Category: Energy (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 128

Impact source: SCOPUS
Impact index in year of publication: 3.607
Position of publication: 5
Category: Energy Engineering and Power Technology
Journal in the top 25%: Yes
No. of journals in the cat.: 220

Impact source: SCOPUS
Impact index in year of publication: 3.607
Position of publication: 4
Category: Fuel Technology
Journal in the top 25%: Yes
No. of journals in the cat.: 103

Impact source: SCOPUS
Impact index in year of publication: 3.607
Position of publication: 5
Category: Management, Monitoring, Policy and Law
Journal in the top 25%: Yes
No. of journals in the cat.: 390

Impact source: SCOPUS
Impact index in year of publication: 3.607
Position of publication: 11
Category: Mechanical Engineering
Journal in the top 25%: Yes
No. of journals in the cat.: 691

Impact source: SCOPUS
Impact index in year of publication: 3.607
Position of publication: 2
Category: Nuclear Energy and Engineering
Journal in the top 25%: Yes
No. of journals in the cat.: 67

Source of citations: SCOPUS
Citations: 142

Source of citations: WOS
Citations: 127

30 Soria-Hoyo, Carlos; Valverde, José Manuel; Roche, Olivier. A laboratory-scale study on the role of mechanical vibrations in pore pressure generation in pyroclastic materials: implications for pyroclastic flows. BULLETIN OF VOLCANOLOGY. 81 - 2, SPRINGER, 2019. Available on-line at: <https://doi.org/10.1007/s00445-019-1271-3>. ISSN 0258-8900, ISSN 1432-0819
DOI: 10.1007/s00445-019-1271-3
Código WOS: WOS:000457480700001
Código Scopus: 85060926233
Type of production: Scientific paper
Format: Journal
Position of signature: 2
Total no. authors: 3

Impact source: ISI
Category: Science Edition - GEOSCIENCES, MULTIDISCIPLINARY
Impact index in year of publication: 2.032
Position of publication: 111
Journal in the top 25%: No
No. of journals in the cat.: 200

Impact source: SCOPUS
Impact index in year of publication: 1.071
Position of publication: 31
Category: Geochemistry and Petrology
Journal in the top 25%: Yes
No. of journals in the cat.: 151

Source of citations: SCOPUS
Citations: 3

Source of citations: WOS
Citations: 3

31 Fernández, R.; Ortiz, C.; Chacartegui, R.; Valverde, J. M.; Becerra, J. A.. Dispatchability of solar photovoltaics from thermochemical energy storage. ENERGY CONVERSION AND MANAGEMENT. 191, pp. 237 - 246. PERGAMON-ELSEVIER SCIENCE LTD, 2019. Available on-line at: <https://doi.org/10.1016/j.enconman.2019.03.074>. ISSN 0196-8904, ISSN 1879-2227

DOI: 10.1016/j.enconman.2019.03.074
Handle: 11441/106061
Código WOS: WOS:000468252400017
Código Scopus: 85064193181
Type of production: Scientific paper
Format: Journal
Position of signature: 4
Total no. authors: 5

Impact source: ISI
Category: Science Edition - ENERGY & FUELS
Impact index in year of publication: 8.208
Journal in the top 25%: Yes
Position of publication: 11
No. of journals in the cat.: 112

Impact source: ISI
Category: Science Edition - MECHANICS
Impact index in year of publication: 8.208
Journal in the top 25%: Yes
Position of publication: 3
No. of journals in the cat.: 136

Impact source: ISI
Category: Science Edition - THERMODYNAMICS
Impact index in year of publication: 8.208
Journal in the top 25%: Yes
Position of publication: 2
No. of journals in the cat.: 61

Impact source: SCOPUS
Category: Energy Engineering and Power Technology
Impact index in year of publication: 2.924
Journal in the top 25%: Yes
Position of publication: 6
No. of journals in the cat.: 256

Impact source: SCOPUS
Category: Fuel Technology
Impact index in year of publication: 2.924
Journal in the top 25%: Yes
Position of publication: 4
No. of journals in the cat.: 123

Impact source: SCOPUS
Category: Nuclear Energy and Engineering
Impact index in year of publication: 2.924
Journal in the top 25%: Yes
Position of publication: 2
No. of journals in the cat.: 76

Impact source: SCOPUS
Category: Renewable Energy, Sustainability and the Environment
Impact index in year of publication: 2.924
Journal in the top 25%: Yes
Position of publication: 12
No. of journals in the cat.: 225

Source of citations: SCOPUS
Citations: 48

Source of citations: WOS
Citations: 37

32 Espin, M. J.; Ebri, J. M.P.; Valverde, J. M.. Tensile strength and compressibility of fine CaCO3 powders. Effect of nanosilica addition.CHEMICAL ENGINEERING JOURNAL. 378, Elsevier Science; ELSEVIER SCIENCE SA, 2019. Available on-line at: <https://doi.org/10.1016/j.cej.2019.122166>. ISSN 1385-8947, ISSN 1873-3212
DOI: 10.1016/j.cej.2019.122166
Código WOS: WOS:000487764800095
Código Scopus: 85068754178
Type of production: Scientific paper
Format: Journal
Position of signature: 3
Total no. authors: 3
Corresponding author: Yes

Impact source: ISI
Category: Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 10.652
Journal in the top 25%: Yes
Position of publication: 4
No. of journals in the cat.: 143

Impact source: ISI
Category: Science Edition - ENGINEERING, ENVIRONMENTAL
Impact index in year of publication: 10.652
Journal in the top 25%: Yes
Position of publication: 2
No. of journals in the cat.: 53

Impact source: SCOPUS
Category: Chemical Engineering (miscellaneous)
Impact index in year of publication: 2.315
Journal in the top 25%: Yes
Position of publication: 10
No. of journals in the cat.: 361

Impact source: SCOPUS
Category: Chemistry (miscellaneous)
Impact index in year of publication: 2.315
Journal in the top 25%: Yes
Position of publication: 30
No. of journals in the cat.: 498

Impact source: SCOPUS
Category: Environmental Chemistry
Impact index in year of publication: 2.315
Journal in the top 25%: Yes
Position of publication: 10
No. of journals in the cat.: 138

Impact source: SCOPUS
Category: Industrial and Manufacturing Engineering
Impact index in year of publication: 2.315
Journal in the top 25%: Yes
Position of publication: 6
No. of journals in the cat.: 408

Source of citations: SCOPUS
Citations: 14

Source of citations: WOS
Citations: 11

33 Perejón, Antonio; Sánchez-Jiménez, Pedro E.; Soria-Hoyo, Carlos; Valverde, José Manuel; Criado, José Manuel; Pérez-Maqueda, Luis A.. Sample-Controlled analysis under high pressure for accelerated process studies. JOURNAL OF THE AMERICAN CERAMIC SOCIETY. 102 - 3, pp. 1338 - 1346. WILEY, 2019. Available on-line at: <https://doi.org/10.1111/jace.15960>. ISSN 0002-7820, ISSN 1551-2916
DOI: 10.1111/jace.15960
Código WOS: WOS:000459610500054
Código Scopus: 85052622222
Type of production: Scientific paper
Format: Journal
Position of signature: 4
Total no. authors: 6

Impact source: ISI
Category: Science Edition - MATERIALS SCIENCE, CERAMICS
Impact index in year of publication: 3.502
Journal in the top 25%: Yes
Position of publication: 3
No. of journals in the cat.: 28

Impact source: SCOPUS
Category: Ceramics and Composites
Impact index in year of publication: 0.902
Journal in the top 25%: Yes
Position of publication: 18
No. of journals in the cat.: 123

Impact source: SCOPUS
Category: Materials Chemistry
Impact index in year of publication: 0.902
Journal in the top 25%: Yes
Position of publication: 45
No. of journals in the cat.: 312

Source of citations: SCOPUS
Citations: 1

Source of citations: WOS
Citations: 1

34 Azimi, Babak; Tahmasebpoor, Maryam; Sanchez-Jimenez, Pedro E.; Perejon, Antonio; Valverde, Jose Manuel. Multicycle CO2 capture activity and fluidizability of Al-based synthesized CaO sorbents. CHEMICAL ENGINEERING JOURNAL. 358, pp. 679 - 690. Elsevier Science; ELSEVIER SCIENCE SA, 2019. Available on-line at: <https://doi.org/10.1016/j.cej.2018.10.061>. ISSN 1385-8947, ISSN 1873-3212

DOI: 10.1016/j.cej.2018.10.061
Código WOS: WOS:000450105700065
Código Scopus: 85054602345
Type of production: Scientific paper
Format: Journal
Position of signature: 5
Total no. authors: 5

Impact source: ISI
Category: Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 10.652
Journal in the top 25%: Yes
Position of publication: 4
No. of journals in the cat.: 143

Impact source: ISI
Category: Science Edition - ENGINEERING, ENVIRONMENTAL
Impact index in year of publication: 10.652
Journal in the top 25%: Yes
Position of publication: 2
No. of journals in the cat.: 53

Impact source: SCOPUS
Category: Chemical Engineering (miscellaneous)
Impact index in year of publication: 2.315
Journal in the top 25%: Yes
Position of publication: 10
No. of journals in the cat.: 361

Impact source: SCOPUS
Category: Chemistry (miscellaneous)
Impact index in year of publication: 2.315
Journal in the top 25%: Yes
Position of publication: 30
No. of journals in the cat.: 498

Impact source: SCOPUS
Category: Environmental Chemistry
Impact index in year of publication: 2.315
Journal in the top 25%: Yes
Position of publication: 10
No. of journals in the cat.: 138

Impact source: SCOPUS
Category: Industrial and Manufacturing Engineering
Impact index in year of publication: 2.315
Journal in the top 25%: Yes
Position of publication: 6
No. of journals in the cat.: 408

Source of citations: SCOPUS
Citations: 103

Source of citations: WOS
Citations: 97

35 Espin, M. J.; Quintanilla, M. A.S.; Valverde, J. M.. Effect of temperature on flow properties of magnetofluidized beds at low consolidations. CHEMICAL ENGINEERING JOURNAL. 361, pp. 50 - 59. Elsevier Science; ELSEVIER SCIENCE SA, 2019. Available on-line at: <https://doi.org/10.1016/j.cej.2018.11.232>. ISSN 1385-8947, ISSN 1873-3212

DOI: 10.1016/j.cej.2018.11.232
Código WOS: WOS:000457096400006
Código Scopus: 85058478313
Type of production: Scientific paper
Format: Journal
Position of signature: 3
Total no. authors: 3
Corresponding author: Yes

Impact source: ISI
Category: Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 10.652
Journal in the top 25%: Yes
Position of publication: 4
No. of journals in the cat.: 143

Impact source: ISI
Category: Science Edition - ENGINEERING, ENVIRONMENTAL
Impact index in year of publication: 10.652
Journal in the top 25%: Yes
Position of publication: 2
No. of journals in the cat.: 53

Impact source: SCOPUS
Category: Chemical Engineering (miscellaneous)
Impact index in year of publication: 2.315
Journal in the top 25%: Yes
Position of publication: 10
No. of journals in the cat.: 361

Impact source: SCOPUS
Category: Chemistry (miscellaneous)
Impact index in year of publication: 2.315
Journal in the top 25%: Yes
Position of publication: 30
No. of journals in the cat.: 498

Impact source: SCOPUS
Category: Environmental Chemistry
Impact index in year of publication: 2.315
Journal in the top 25%: Yes
Position of publication: 10
No. of journals in the cat.: 138

Impact source: SCOPUS
Category: Industrial and Manufacturing Engineering
Impact index in year of publication: 2.315
Journal in the top 25%: Yes
Position of publication: 6
No. of journals in the cat.: 408

Source of citations: SCOPUS
Citations: 6

Source of citations: WOS
Citations: 4

36 Ortiz, C.; Valverde, J. M.; Chacartegui, R.; Perez-Maqueda, L. A.. Carbonation of Limestone Derived CaO for Thermochemical Energy Storage: From Kinetics to Process Integration in Concentrating Solar Plants. ACS SUSTAINABLE CHEMISTRY & ENGINEERING. 6 - 5, pp. 6404 - 6417. AMER CHEMICAL SOC, 2018. Available on-line at: <https://doi.org/10.1021/acssuschemeng.8b00199>. ISSN 2168-0485
DOI: 10.1021/acssuschemeng.8b00199
Handle: 11441/78603
Código WOS: WOS:000431927500082
Código Scopus: 85046805746
Type of production: Scientific paper
Format: Journal
Position of signature: 2
Total no. authors: 4

Impact source: ISI
Category: Science Edition - CHEMISTRY, MULTIDISCIPLINARY
Impact index in year of publication: 6.970
Journal in the top 25%: Yes
Position of publication: 26
No. of journals in the cat.: 172

Impact source: ISI
Category: Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 6.970
Journal in the top 25%: Yes
Position of publication: 9
No. of journals in the cat.: 138

Impact source: ISI
Category: Science Edition - GREEN & SUSTAINABLE SCIENCE & TECHNOLOGY
Impact index in year of publication: 6.970
Journal in the top 25%: Yes
Position of publication: 5
No. of journals in the cat.: 35

Impact source: SCOPUS
Category: Chemical Engineering (miscellaneous)
Impact index in year of publication: 1.666
Journal in the top 25%: Yes
Position of publication: 18
No. of journals in the cat.: 317

Impact source: SCOPUS
Impact index in year of publication: 1.666
Position of publication: 18
Category: Chemical Engineering (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 337

Impact source: SCOPUS
Impact index in year of publication: 1.666
Position of publication: 34
Category: Chemistry (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 416

Impact source: SCOPUS
Impact index in year of publication: 1.666
Position of publication: 34
Category: Chemistry (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 458

Impact source: SCOPUS
Impact index in year of publication: 1.666
Position of publication: 15
Category: Environmental Chemistry
Journal in the top 25%: Yes
No. of journals in the cat.: 103

Impact source: SCOPUS
Impact index in year of publication: 1.666
Position of publication: 15
Category: Environmental Chemistry
Journal in the top 25%: Yes
No. of journals in the cat.: 119

Impact source: SCOPUS
Impact index in year of publication: 1.666
Position of publication: 23
Category: Renewable Energy, Sustainability and the Environment
Journal in the top 25%: Yes
No. of journals in the cat.: 155

Impact source: SCOPUS
Impact index in year of publication: 1.666
Position of publication: 23
Category: Renewable Energy, Sustainability and the Environment
Journal in the top 25%: Yes
No. of journals in the cat.: 193

Source of citations: SCOPUS
Citations: 116

Source of citations: WOS
Citations: 99

37 Benitez-Guerrero, Monica; Valverde, Jose Manuel; Sanchez-Jimenez, Pedro E.; Perejon, Antonio; Perez-Maqueda, Luis A.. Calcium-Looping performance of mechanically modified Al2O3-CaO composites for energy storage and CO2 capture. CHEMICAL ENGINEERING JOURNAL. 334, pp. 2343 - 2355. Elsevier Science; ELSEVIER SCIENCE SA, 2018. Available on-line at: <https://doi.org/10.1016/j.cej.2017.11.183>. ISSN 1385-8947, ISSN 1873-3212
DOI: 10.1016/j.cej.2017.11.183
Handle: 11441/69762
Código WOS: WOS:000418533400235
Código Scopus: 85037031529
Type of production: Scientific paper
Format: Journal
Position of signature: 2
Total no. authors: 5
Corresponding author: Yes

Impact source: ISI
Impact index in year of publication: 8.355
Position of publication: 6
Category: Science Edition - ENGINEERING, CHEMICAL
Journal in the top 25%: Yes
No. of journals in the cat.: 138

Impact source: ISI
Impact index in year of publication: 8.355
Position of publication: 2
Category: Science Edition - ENGINEERING, ENVIRONMENTAL
Journal in the top 25%: Yes
No. of journals in the cat.: 52

Impact source: SCOPUS
Impact index in year of publication: 2.066
Position of publication: 11
Category: Chemical Engineering (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 337

Impact source: SCOPUS
Impact index in year of publication: 2.066
Position of publication: 27
Category: Chemistry (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 458

Impact source: SCOPUS
Impact index in year of publication: 2.066
Position of publication: 11
Category: Environmental Chemistry
Journal in the top 25%: Yes
No. of journals in the cat.: 119

Impact source: SCOPUS
Impact index in year of publication: 2.066
Position of publication: 11
Category: Industrial and Manufacturing Engineering
Journal in the top 25%: Yes
No. of journals in the cat.: 378

Source of citations: SCOPUS
Citations: 159

Source of citations: WOS
Citations: 146

38 Ortiz, Carlos; Valverde, Jose Manuel; Chacartegui, Ricardo; Romeo, Luis Miguel; Perez-Maqueda, Luis Allan. The mOxy-CaL process: Integration of membrane separation, partial oxy-combustion and calcium looping for CO<inf>2</inf> capture. Chemical Engineering Transactions. 70, pp. 643 - 648. AIDIC SERVIZI SRL, 2018. Available on-line at: <https://doi.org/10.3303/CET1870108>. ISSN 1974-9791, ISSN 2283-9216
DOI: 10.3303/CET1870108
Handle: 11441/78159
Código Scopus: 85051319644
Type of production: Scientific paper
Position of signature: 2
Total no. authors: 5

Impact source: SCOPUS
Impact index in year of publication: 0.273
Position of publication: 176
Category: Chemical Engineering (miscellaneous)
Journal in the top 25%: No
No. of journals in the cat.: 337

Source of citations: SCOPUS
Citations: 10

39 Sarrión, Beatriz; Perejón, Antonio; Sánchez-Jiménez, Pedro E.; Pérez-Maqueda, Luis A.; Valverde, José Manuel. Role of calcium looping conditions on the performance of natural and synthetic Ca-based materials for energy storage. JOURNAL OF CO2 UTILIZATION. 28, pp. 374 - 384. ELSEVIER SCI LTD, 2018. Available on-line at: <https://doi.org/10.1016/j.jcou.2018.10.018>. ISSN 2212-9820, ISSN 2212-9839
DOI: 10.1016/j.jcou.2018.10.018
Código WOS: WOS:000451088900040
Código Scopus: 85055778427
Type of production: Scientific paper
Format: Journal
Position of signature: 5
Total no. authors: 5

Impact source: ISI
Impact index in year of publication: 5.189
Position of publication: 36
Category: Science Edition - CHEMISTRY, MULTIDISCIPLINARY
Journal in the top 25%: Yes
No. of journals in the cat.: 172

Impact source: ISI
Category: Science Edition - ENGINEERING, CHEMICAL

Impact index in year of publication: 5.189
Position of publication: 11
Journal in the top 25%: Yes
No. of journals in the cat.: 138

Impact source: SCOPUS
Impact index in year of publication: 1.242
Position of publication: 28
Category: Chemical Engineering (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 337

Impact source: SCOPUS
Impact index in year of publication: 1.242
Position of publication: 5
Category: Process Chemistry and Technology
Journal in the top 25%: Yes
No. of journals in the cat.: 72

Impact source: SCOPUS
Impact index in year of publication: 1.242
Position of publication: 14
Category: Waste Management and Disposal
Journal in the top 25%: Yes
No. of journals in the cat.: 118

Source of citations: SCOPUS
Citations: 134

Source of citations: WOS
Citations: 123

40 Ortiz, C.; Romano, M. C.; Valverde, J. M.; Binotti, M.; Chacartegui, R.. Process integration of Calcium-Looping thermochemical energy storage system in concentrating solar power plants. ENERGY. 155, pp. 535 - 551. PERGAMON-ELSEVIER SCIENCE LTD, 2018. Available on-line at: <https://doi.org/10.1016/j.energy.2018.04.180>. ISSN 0360-5442, ISSN 1873-6785
DOI: 10.1016/j.energy.2018.04.180
Código WOS: WOS:000445303100046
Código Scopus: 85047245920
Type of production: Scientific paper
Format: Journal
Position of signature: 3
Total no. authors: 5

Impact source: ISI
Impact index in year of publication: 5.537
Position of publication: 15
Category: Science Edition - ENERGY & FUELS
Journal in the top 25%: Yes
No. of journals in the cat.: 103

Impact source: ISI
Impact index in year of publication: 5.537
Position of publication: 3
Category: Science Edition - THERMODYNAMICS
Journal in the top 25%: Yes
No. of journals in the cat.: 60

Impact source: SCOPUS
Impact index in year of publication: 2.048
Position of publication: 5
Category: Building and Construction
Journal in the top 25%: Yes
No. of journals in the cat.: 195

Impact source: SCOPUS
Impact index in year of publication: 2.048
Position of publication: 5
Category: Civil and Structural Engineering
Journal in the top 25%: Yes
No. of journals in the cat.: 332

Impact source: SCOPUS
Impact index in year of publication: 2.048
Position of publication: 25
Category: Electrical and Electronic Engineering
Journal in the top 25%: Yes
No. of journals in the cat.: 714

Impact source: SCOPUS
Impact index in year of publication: 2.048
Position of publication: 5
Category: Energy (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 115

Impact source: SCOPUS
Impact index in year of publication: 2.048
Category: Industrial and Manufacturing Engineering
Journal in the top 25%: Yes

Position of publication: 13
No. of journals in the cat.: 378

Impact source: SCOPUS
Category: Mechanical Engineering
Impact index in year of publication: 2.048
Journal in the top 25%: Yes
Position of publication: 21
No. of journals in the cat.: 641

Impact source: SCOPUS
Category: Pollution
Impact index in year of publication: 2.048
Journal in the top 25%: Yes
Position of publication: 4
No. of journals in the cat.: 143

Source of citations: SCOPUS
Citations: 130

Source of citations: WOS
Citations: 116

41 Sarrion, Beatriz; Sanchez-Jimenez, Pedro E.; Perejon, Antonio; Perez-Maqueda, Luis A.; Valverde, Jose Manuel. Pressure Effect on the Multicycle Activity of Natural Carbonates and a Ca/Zr Composite for Energy Storage of Concentrated Solar Power. ACS SUSTAINABLE CHEMISTRY & ENGINEERING. 6 - 6, pp. 7849 - 7858. AMER CHEMICAL SOC, 2018. Available on-line at: <https://doi.org/10.1021/acssuschemeng.8b00981>. ISSN 2168-0485
DOI: 10.1021/acssuschemeng.8b00981
Handle: 11441/138162
Código WOS: WOS:000434491600072
Código Scopus: 85046142293
Type of production: Scientific paper
Format: Journal
Position of signature: 5
Total no. authors: 5
Corresponding author: Yes

Impact source: ISI
Category: Science Edition - CHEMISTRY, MULTIDISCIPLINARY
Impact index in year of publication: 6.970
Journal in the top 25%: Yes
Position of publication: 26
No. of journals in the cat.: 172

Impact source: ISI
Category: Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 6.970
Journal in the top 25%: Yes
Position of publication: 9
No. of journals in the cat.: 138

Impact source: ISI
Category: Science Edition - GREEN & SUSTAINABLE SCIENCE & TECHNOLOGY
Impact index in year of publication: 6.970
Journal in the top 25%: Yes
Position of publication: 5
No. of journals in the cat.: 35

Impact source: SCOPUS
Category: Chemical Engineering (miscellaneous)
Impact index in year of publication: 1.666
Journal in the top 25%: Yes
Position of publication: 18
No. of journals in the cat.: 317

Impact source: SCOPUS
Category: Chemical Engineering (miscellaneous)
Impact index in year of publication: 1.666
Journal in the top 25%: Yes
Position of publication: 18
No. of journals in the cat.: 337

Impact source: SCOPUS
Category: Chemistry (miscellaneous)
Impact index in year of publication: 1.666
Journal in the top 25%: Yes
Position of publication: 34
No. of journals in the cat.: 416

Impact source: SCOPUS
Category: Chemistry (miscellaneous)
Impact index in year of publication: 1.666
Journal in the top 25%: Yes
Position of publication: 34
No. of journals in the cat.: 458

Impact source: SCOPUS
Impact index in year of publication: 1.666
Position of publication: 15
Category: Environmental Chemistry
Journal in the top 25%: Yes
No. of journals in the cat.: 103

Impact source: SCOPUS
Impact index in year of publication: 1.666
Position of publication: 15
Category: Environmental Chemistry
Journal in the top 25%: Yes
No. of journals in the cat.: 119

Impact source: SCOPUS
Impact index in year of publication: 1.666
Position of publication: 23
Category: Renewable Energy, Sustainability and the Environment
Journal in the top 25%: Yes
No. of journals in the cat.: 155

Impact source: SCOPUS
Impact index in year of publication: 1.666
Position of publication: 23
Category: Renewable Energy, Sustainability and the Environment
Journal in the top 25%: Yes
No. of journals in the cat.: 193

Source of citations: SCOPUS
Citations: 51

Source of citations: WOS
Citations: 46

42 Masci, Giuseppe; Ortiz, Carlos; Chacartegui, Ricardo; Verda, Vittorio; Valverde, Jose M.. The ammonia looping system for mid-temperature thermochemical energy storage. Chemical Engineering Transactions. 70, pp. 763 - 768. AIDIC SERVIZI SRL, 2018. Available on-line at: <https://doi.org/10.3303/CET1870128>. ISSN 1974-9791, ISSN 2283-9216
DOI: 10.3303/CET1870128
Handle: 11441/78160
Código Scopus: 85051321276
Type of production: Scientific paper
Position of signature: 5
Total no. authors: 5

Impact source: SCOPUS
Impact index in year of publication: 0.273
Position of publication: 176
Category: Chemical Engineering (miscellaneous)
Journal in the top 25%: No
No. of journals in the cat.: 337

Source of citations: SCOPUS
Citations: 6

43 Benitez-Guerrero, Monica; Valverde, Jose Manuel; Perejon, Antonio; Sanchez-Jimenez, Pedro E.; Perez-Maqueda, Luis A.. Low-cost Ca-based composites synthesized by biotemplate method for thermochemical energy storage of concentrated solar power. APPLIED ENERGY. 210, pp. 108 - 116. ELSEVIER SCI LTD; Elsevier BV, 2018. Available on-line at: <https://doi.org/10.1016/j.apenergy.2017.10.109>. ISSN 0306-2619, ISSN 1872-9118
DOI: 10.1016/j.apenergy.2017.10.109
Handle: 11441/69770
Código WOS: WOS:000419813100009
Código Scopus: 85032818203
Type of production: Scientific paper
Format: Journal
Position of signature: 2
Total no. authors: 5
Corresponding author: Yes

Impact source: ISI
Impact index in year of publication: 8.426
Position of publication: 8
Category: Science Edition - ENERGY & FUELS
Journal in the top 25%: Yes
No. of journals in the cat.: 103

Impact source: ISI
Impact index in year of publication: 8.426
Position of publication: 5
Category: Science Edition - ENGINEERING, CHEMICAL
Journal in the top 25%: Yes
No. of journals in the cat.: 138

Impact source: SCOPUS
Impact index in year of publication: 3.455
Position of publication: 2
Category: Building and Construction
Journal in the top 25%: Yes
No. of journals in the cat.: 195

Impact source: SCOPUS
Impact index in year of publication: 3.455
Position of publication: 1
Category: Civil and Structural Engineering
Journal in the top 25%: Yes
No. of journals in the cat.: 298

Impact source: SCOPUS
Impact index in year of publication: 3.455
Position of publication: 3
Category: Energy (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 115

Impact source: SCOPUS
Impact index in year of publication: 3.455
Position of publication: 5
Category: Energy Engineering and Power Technology
Journal in the top 25%: Yes
No. of journals in the cat.: 202

Impact source: SCOPUS
Impact index in year of publication: 3.455
Position of publication: 4
Category: Fuel Technology
Journal in the top 25%: Yes
No. of journals in the cat.: 92

Impact source: SCOPUS
Impact index in year of publication: 3.455
Position of publication: 3
Category: Management, Monitoring, Policy and Law
Journal in the top 25%: Yes
No. of journals in the cat.: 343

Impact source: SCOPUS
Impact index in year of publication: 3.455
Position of publication: 9
Category: Mechanical Engineering
Journal in the top 25%: Yes
No. of journals in the cat.: 641

Impact source: SCOPUS
Impact index in year of publication: 3.455
Position of publication: 2
Category: Nuclear Energy and Engineering
Journal in the top 25%: Yes
No. of journals in the cat.: 63

Source of citations: SCOPUS
Citations: 119

Source of citations: WOS
Citations: 105

44 Lizana, J.; Chacartegui, R.; Barrios-Padura, A.; Valverde, J. M.; Ortiz, C.. Identification of best available thermal energy storage compounds for low-to-moderate temperature storage applications in buildings. MATERIALES DE CONSTRUCCION. 68 - 331, pp. 1 - 35. CONSEJO SUPERIOR INVESTIGACIONES CIENTIFICAS-CSIC; Iris-Copy, 2018. Available on-line at: <https://doi.org/10.3989/mc.2018.10517>. ISSN 0465-2746, ISSN 1988-3226
DOI: 10.3989/mc.2018.10517
Handle: 11441/78026
Código WOS: WOS:000442890600002
Código Scopus: 85052496185
Código de Dialnet: ARTREV 6543334
Type of production: Scientific paper
Format: Journal
Position of signature: 4
Total no. authors: 5

Impact source: ISI
Category: Science Edition - CONSTRUCTION & BUILDING TECHNOLOGY

Impact index in year of publication: 1.886
Position of publication: 31
Journal in the top 25%: No
No. of journals in the cat.: 63

Impact source: ISI
Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Impact index in year of publication: 1.886
Position of publication: 175
Journal in the top 25%: No
No. of journals in the cat.: 293

Impact source: SCOPUS
Impact index in year of publication: 0.821
Position of publication: 41
Category: Building and Construction
Journal in the top 25%: Yes
No. of journals in the cat.: 195

Impact source: SCOPUS
Impact index in year of publication: 0.821
Position of publication: 136
Category: Materials Science (miscellaneous)
Journal in the top 25%: No
No. of journals in the cat.: 608

Impact source: SCOPUS
Impact index in year of publication: 0.821
Position of publication: 95
Category: Mechanics of Materials
Journal in the top 25%: No
No. of journals in the cat.: 389

Source of citations: SCOPUS
Citations: 31

Source of citations: WOS
Citations: 26

Source of citations: Dialnet
Citations: 3

45 Benitez-Guerrero, Monica; Valverde, Jose Manuel; Perejon, Antonio; Sanchez-Jimenez, Pedro E.; Perez-Maqueda, Luis A.. Effect of milling mechanism on the CO2 capture performance of limestone in the Calcium Looping process. CHEMICAL ENGINEERING JOURNAL. 346, pp. 549 - 556. Elsevier Science; ELSEVIER SCIENCE SA, 2018. Available on-line at: <https://doi.org/10.1016/j.cej.2018.03.146>. ISSN 1385-8947, ISSN 1873-3212
DOI: 10.1016/j.cej.2018.03.146
Handle: 11441/137873
Código WOS: WOS:000432878400056
Código Scopus: 85045405145
Type of production: Scientific paper
Format: Journal
Position of signature: 2
Total no. authors: 5
Corresponding author: Yes

Impact source: ISI
Category: Science Edition - ENGINEERING, CHEMICAL

Impact index in year of publication: 8.355
Position of publication: 6
Journal in the top 25%: Yes
No. of journals in the cat.: 138

Impact source: ISI
Category: Science Edition - ENGINEERING, ENVIRONMENTAL

Impact index in year of publication: 8.355
Position of publication: 2
Journal in the top 25%: Yes
No. of journals in the cat.: 52

Impact source: SCOPUS
Impact index in year of publication: 2.066
Position of publication: 11
Category: Chemical Engineering (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 337

Impact source: SCOPUS
Impact index in year of publication: 2.066
Position of publication: 27
Category: Chemistry (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 458

Impact source: SCOPUS
Category: Environmental Chemistry

Impact index in year of publication: 2.066
Position of publication: 11
Journal in the top 25%: Yes
No. of journals in the cat.: 119

Impact source: SCOPUS
Impact index in year of publication: 2.066
Position of publication: 11
Category: Industrial and Manufacturing Engineering
Journal in the top 25%: Yes
No. of journals in the cat.: 378

Source of citations: SCOPUS
Citations: 36

Source of citations: WOS
Citations: 36

46 Medina-Carrasco, Santiago; Valverde, Jose Manuel. Crystallographic and Morphological Transformation of Natrite and Nahcolite in the Dry Carbonate Process for CO<inf>2</inf> Capture. CRYSTAL GROWTH & DESIGN. 18 - 8, pp. 4578 - 4592. AMER CHEMICAL SOC, 2018. Available on-line at: <https://doi.org/10.1021/acs.cgd.8b00563>. ISSN 1528-7483, ISSN 1528-7505
DOI: 10.1021/acs.cgd.8b00563
Código WOS: WOS:000440956100047
Código Scopus: 85049237375
Type of production: Scientific paper
Format: Journal
Position of signature: 2
Total no. authors: 2
Corresponding author: Yes

Impact source: ISI
Impact index in year of publication: 4.153
Position of publication: 48
Category: Science Edition - CHEMISTRY, MULTIDISCIPLINARY
Journal in the top 25%: No
No. of journals in the cat.: 172

Impact source: ISI
Impact index in year of publication: 4.153
Position of publication: 3
Category: Science Edition - CRYSTALLOGRAPHY
Journal in the top 25%: Yes
No. of journals in the cat.: 26

Impact source: ISI
Impact index in year of publication: 4.153
Position of publication: 66
Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
Journal in the top 25%: Yes
No. of journals in the cat.: 293

Impact source: SCOPUS
Impact index in year of publication: 1.046
Position of publication: 61
Category: Chemistry (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 458

Impact source: SCOPUS
Impact index in year of publication: 1.046
Position of publication: 62
Category: Condensed Matter Physics
Journal in the top 25%: Yes
No. of journals in the cat.: 426

Impact source: SCOPUS
Impact index in year of publication: 1.046
Position of publication: 99
Category: Materials Science (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 608

Source of citations: SCOPUS
Citations: 6

Source of citations: WOS
Citations: 6

47 Alovisio, A.; Chacartegui, R.; Ortiz, C.; Valverde, J. M.; Verda, V.. Optimizing the CSP-Calcium Looping integration for Thermochemical Energy Storage. ENERGY CONVERSION AND MANAGEMENT. 136, pp. 85 - 98. PERGAMON-ELSEVIER SCIENCE LTD, 2017. Available on-line at: <https://doi.org/10.1016/j.enconman.2016.12.093>. ISSN 0196-8904, ISSN 1879-2227

DOI: 10.1016/j.enconman.2016.12.093
Handle: 11441/69887
Código WOS: WOS:000395212000009
Código Scopus: 85008950418
Type of production: Scientific paper
Format: Journal
Position of signature: 4
Total no. authors: 5

Impact source: ISI
Impact index in year of publication: 6.377
Position of publication: 11
Category: Science Edition - ENERGY & FUELS
Journal in the top 25%: Yes
No. of journals in the cat.: 97

Impact source: ISI
Impact index in year of publication: 6.377
Position of publication: 3
Category: Science Edition - MECHANICS
Journal in the top 25%: Yes
No. of journals in the cat.: 134

Impact source: ISI
Impact index in year of publication: 6.377
Position of publication: 2
Category: Science Edition - THERMODYNAMICS
Journal in the top 25%: Yes
No. of journals in the cat.: 59

Impact source: SCOPUS
Impact index in year of publication: 2.537
Position of publication: 6
Category: Energy Engineering and Power Technology
Journal in the top 25%: Yes
No. of journals in the cat.: 221

Impact source: SCOPUS
Impact index in year of publication: 2.537
Position of publication: 4
Category: Fuel Technology
Journal in the top 25%: Yes
No. of journals in the cat.: 98

Impact source: SCOPUS
Impact index in year of publication: 2.537
Position of publication: 2
Category: Nuclear Energy and Engineering
Journal in the top 25%: Yes
No. of journals in the cat.: 64

Impact source: SCOPUS
Impact index in year of publication: 2.537
Position of publication: 10
Category: Renewable Energy, Sustainability and the Environment
Journal in the top 25%: Yes
No. of journals in the cat.: 182

Source of citations: SCOPUS
Citations: 167

Source of citations: WOS
Citations: 145

48 Benitez-Guerrero, Monica; Valverde, Jose Manuel; Sanchez-Jimenez, Pedro E.; Perejon, Antonio; Perez-Maqueda, Luis A.. Multicycle activity of natural CaCO3 minerals for thermochemical energy storage in Concentrated Solar Power plants. SOLAR ENERGY. 153, pp. 188 - 199. PERGAMON-ELSEVIER SCIENCE LTD, 2017. Available on-line at: <https://doi.org/10.1016/j.solener.2017.05.068>. ISSN 0038-092X, ISSN 1471-1257

DOI: 10.1016/j.solener.2017.05.068
Handle: 11441/69886
Código WOS: WOS:000411847200018
Código Scopus: 85019678240
Type of production: Scientific paper
Format: Journal
Position of signature: 2
Total no. authors: 5
Corresponding author: Yes

Impact source: ISI
Impact index in year of publication: 4.374
Position of publication: 23
Category: Science Edition - ENERGY & FUELS
Journal in the top 25%: Yes
No. of journals in the cat.: 97

Impact source: SCOPUS
Impact index in year of publication: 1.615
Position of publication: 59
Category: Materials Science (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 587

Impact source: SCOPUS
Impact index in year of publication: 1.615
Position of publication: 24
Category: Renewable Energy, Sustainability and the Environment
Journal in the top 25%: Yes
No. of journals in the cat.: 182

Source of citations: SCOPUS
Citations: 130

Source of citations: WOS
Citations: 119

49 Bonaventura, D.; Chacartegui, R.; Valverde, J. M.; Becerra, J. A.; Verda, V.. Carbon capture and utilization for sodium bicarbonate production assisted by solar thermal power. ENERGY CONVERSION AND MANAGEMENT. 149, pp. 860 - 874. PERGAMON-ELSEVIER SCIENCE LTD, 2017. Available on-line at: <https://doi.org/10.1016/j.enconman.2017.03.042>. ISSN 0196-8904, ISSN 1879-2227
DOI: 10.1016/j.enconman.2017.03.042
Handle: 11441/69890
Código WOS: WOS:000411537200070
Código Scopus: 85015976776
Type of production: Scientific paper
Format: Journal
Position of signature: 3
Total no. authors: 5

Impact source: ISI
Impact index in year of publication: 6.377
Position of publication: 11
Category: Science Edition - ENERGY & FUELS
Journal in the top 25%: Yes
No. of journals in the cat.: 97

Impact source: ISI
Impact index in year of publication: 6.377
Position of publication: 3
Category: Science Edition - MECHANICS
Journal in the top 25%: Yes
No. of journals in the cat.: 134

Impact source: ISI
Impact index in year of publication: 6.377
Position of publication: 2
Category: Science Edition - THERMODYNAMICS
Journal in the top 25%: Yes
No. of journals in the cat.: 59

Impact source: SCOPUS
Impact index in year of publication: 2.537
Position of publication: 6
Category: Energy Engineering and Power Technology
Journal in the top 25%: Yes
No. of journals in the cat.: 221

Impact source: SCOPUS
Impact index in year of publication: 2.537
Position of publication: 4
Category: Fuel Technology
Journal in the top 25%: Yes
No. of journals in the cat.: 98

Impact source: SCOPUS
Impact index in year of publication: 2.537
Position of publication: 2
Category: Nuclear Energy and Engineering
Journal in the top 25%: Yes
No. of journals in the cat.: 64

Impact source: SCOPUS
Impact index in year of publication: 2.537
Position of publication: 10
Category: Renewable Energy, Sustainability and the Environment
Journal in the top 25%: Yes
No. of journals in the cat.: 182

Source of citations: SCOPUS
Citations: 44

Source of citations: WOS **Citations:** 37

50 Miranda-Pizarro, Juan; Perejón, Antonio; Valverde, Jose Manuel; Pérez-Maqueda, Luis A.; Sánchez-Jiménez, Pedro E.. CO2 capture performance of Ca-Mg acetates at realistic Calcium Looping conditions. FUEL. 196, pp. 497 - 507. ELSEVIER SCI LTD, 2017. Available on-line at: <https://doi.org/10.1016/j.fuel.2017.01.119>. ISSN 0016-2361, ISSN 1873-7153

DOI: 10.1016/j.fuel.2017.01.119
Handle: 11441/80019
Código WOS: WOS:000397360200049
Código Scopus: 85018501716
Type of production: Scientific paper **Format:** Journal
Position of signature: 3
Total no. authors: 5

Impact source: ISI **Category:** Science Edition - ENERGY & FUELS
Impact index in year of publication: 4.908 **Journal in the top 25%:** Yes
Position of publication: 19 **No. of journals in the cat.:** 97

Impact source: ISI **Category:** Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 4.908 **Journal in the top 25%:** Yes
Position of publication: 13 **No. of journals in the cat.:** 137

Impact source: SCOPUS **Category:** Chemical Engineering (miscellaneous)
Impact index in year of publication: 1.891 **Journal in the top 25%:** Yes
Position of publication: 14 **No. of journals in the cat.:** 332

Impact source: SCOPUS **Category:** Energy Engineering and Power Technology
Impact index in year of publication: 1.891 **Journal in the top 25%:** Yes
Position of publication: 12 **No. of journals in the cat.:** 221

Impact source: SCOPUS **Category:** Fuel Technology
Impact index in year of publication: 1.891 **Journal in the top 25%:** Yes
Position of publication: 8 **No. of journals in the cat.:** 98

Impact source: SCOPUS **Category:** Organic Chemistry
Impact index in year of publication: 1.891 **Journal in the top 25%:** Yes
Position of publication: 11 **No. of journals in the cat.:** 179

Source of citations: SCOPUS **Citations:** 34

Source of citations: WOS **Citations:** 33

51 Valverde, Jose Manuel; Barea-López, Manuel; Perejón, Antonio; Sánchez-Jiménez, Pedro E.; Pérez-Maqueda, Luis A.. Effect of Thermal Pretreatment and Nanosilica Addition on Limestone Performance at Calcium-Looping Conditions for Thermochemical Energy Storage of Concentrated Solar Power. ENERGY & FUELS. 31 - 4, pp. 4226 - 4236. AMER CHEMICAL SOC, 2017. Available on-line at: <https://doi.org/10.1021/acs.energyfuels.6b03364>. ISSN 0887-0624, ISSN 1520-5029

DOI: 10.1021/acs.energyfuels.6b03364
Handle: 11441/74562
Código WOS: WOS:000400039800094
Código Scopus: 85020380225
Type of production: Scientific paper **Format:** Journal
Position of signature: 1
Total no. authors: 5 **Corresponding author:** Yes

Impact source: ISI
Impact index in year of publication: 3.024
Position of publication: 40
Category: Science Edition - ENERGY & FUELS
Journal in the top 25%: No
No. of journals in the cat.: 97

Impact source: ISI
Impact index in year of publication: 3.024
Position of publication: 36
Category: Science Edition - ENGINEERING, CHEMICAL
Journal in the top 25%: No
No. of journals in the cat.: 137

Impact source: SCOPUS
Impact index in year of publication: 1.159
Position of publication: 31
Category: Chemical Engineering (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 309

Impact source: SCOPUS
Impact index in year of publication: 1.159
Position of publication: 31
Category: Chemical Engineering (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 332

Impact source: SCOPUS
Impact index in year of publication: 1.159
Position of publication: 29
Category: Energy Engineering and Power Technology
Journal in the top 25%: Yes
No. of journals in the cat.: 221

Impact source: SCOPUS
Impact index in year of publication: 1.159
Position of publication: 30
Category: Energy Engineering and Power Technology
Journal in the top 25%: Yes
No. of journals in the cat.: 189

Impact source: SCOPUS
Impact index in year of publication: 1.159
Position of publication: 17
Category: Fuel Technology
Journal in the top 25%: Yes
No. of journals in the cat.: 98

Impact source: SCOPUS
Impact index in year of publication: 1.159
Position of publication: 18
Category: Fuel Technology
Journal in the top 25%: Yes
No. of journals in the cat.: 88

Source of citations: SCOPUS
Citations: 80

Source of citations: WOS
Citations: 69

52 Valverde, Jose Manuel; Miranda-Pizarro, Juan; Perejón, Antonio; Sánchez-Jiménez, Pedro E.; Pérez-Maqueda, Luis A.. Calcium-Looping performance of steel and blast furnace slags for thermochemical energy storage in concentrated solar power plants. JOURNAL OF CO2 UTILIZATION. 22, pp. 143 - 154. ELSEVIER SCI LTD, 2017. Available on-line at: <https://doi.org/10.1016/j.jcou.2017.09.021>. ISSN 2212-9820, ISSN 2212-9839
DOI: 10.1016/j.jcou.2017.09.021
Handle: 11441/69771
Código WOS: WOS:000416530300016
Código Scopus: 85031018338
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 5
Corresponding author: Yes

Impact source: ISI
Impact index in year of publication: 5.503
Position of publication: 35
Category: Science Edition - CHEMISTRY, MULTIDISCIPLINARY
Journal in the top 25%: Yes
No. of journals in the cat.: 171

Impact source: ISI
Category: Science Edition - ENGINEERING, CHEMICAL

Impact index in year of publication: 5.503
Position of publication: 11
Journal in the top 25%: Yes
No. of journals in the cat.: 137

Impact source: SCOPUS
Impact index in year of publication: 1.199
Position of publication: 29
Category: Chemical Engineering (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 332

Impact source: SCOPUS
Impact index in year of publication: 1.199
Position of publication: 7
Category: Process Chemistry and Technology
Journal in the top 25%: Yes
No. of journals in the cat.: 64

Impact source: SCOPUS
Impact index in year of publication: 1.199
Position of publication: 13
Category: Waste Management and Disposal
Journal in the top 25%: Yes
No. of journals in the cat.: 106

Source of citations: SCOPUS
Citations: 50

Source of citations: WOS
Citations: 46

53 Valverde, Jose Manuel; Medina, Santiago. Limestone calcination under calcium-looping conditions for CO<inf>2</inf> capture and thermochemical energy storage in the presence of H<inf>2</inf>O: An in situ XRD analysis. PHYSICAL CHEMISTRY CHEMICAL PHYSICS. 19 - 11, pp. 7587 - 7596. ROYAL SOC CHEMISTRY, 2017. Available on-line at: <https://doi.org/10.1039/c7cp00260b>. ISSN 1463-9076, ISSN 1463-9084
DOI: 10.1039/c7cp00260b
Handle: 11441/69835
Código WOS: WOS:000397569900017
Código Scopus: 85016445364
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 2
Corresponding author: Yes

Impact source: ISI
Impact index in year of publication: 3.906
Position of publication: 46
Category: Science Edition - CHEMISTRY, PHYSICAL
Journal in the top 25%: No
No. of journals in the cat.: 147

Impact source: ISI
Impact index in year of publication: 3.906
Position of publication: 9
Category: Science Edition - PHYSICS, ATOMIC, MOLECULAR & CHEMICAL
Journal in the top 25%: Yes
No. of journals in the cat.: 37

Impact source: SCOPUS
Impact index in year of publication: 1.686
Position of publication: 20
Category: Physical and Theoretical Chemistry
Journal in the top 25%: Yes
No. of journals in the cat.: 160

Impact source: SCOPUS
Impact index in year of publication: 1.686
Position of publication: 24
Category: Physics and Astronomy (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 280

Source of citations: SCOPUS
Citations: 45

Source of citations: WOS
Citations: 39

54 Espin, M. J.; Quintanilla, M. A.S.; Valverde, J. M.. Magnetic stabilization of fluidized beds: Effect of magnetic field orientation. CHEMICAL ENGINEERING JOURNAL. 313, pp. 1335 - 1345. Elsevier Science; ELSEVIER SCIENCE SA, 2017. Available on-line at: <https://doi.org/10.1016/j.cej.2016.11.023>. ISSN 1385-8947, ISSN 1873-3212
DOI: 10.1016/j.cej.2016.11.023

Handle: 11441/69841
Código WOS: WOS:000394723200136
Código Scopus: 85028254791
Type of production: Scientific paper
Format: Journal
Position of signature: 3
Total no. authors: 3
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 6.735
Journal in the top 25%: Yes
Position of publication: 7
No. of journals in the cat.: 137

Impact source: ISI
Category: Science Edition - ENGINEERING, ENVIRONMENTAL
Impact index in year of publication: 6.735
Journal in the top 25%: Yes
Position of publication: 3
No. of journals in the cat.: 50

Impact source: SCOPUS
Category: Chemical Engineering (miscellaneous)
Impact index in year of publication: 1.863
Journal in the top 25%: Yes
Position of publication: 15
No. of journals in the cat.: 332

Impact source: SCOPUS
Category: Chemistry (miscellaneous)
Impact index in year of publication: 1.863
Journal in the top 25%: Yes
Position of publication: 30
No. of journals in the cat.: 451

Impact source: SCOPUS
Category: Environmental Chemistry
Impact index in year of publication: 1.863
Journal in the top 25%: Yes
Position of publication: 12
No. of journals in the cat.: 112

Impact source: SCOPUS
Category: Industrial and Manufacturing Engineering
Impact index in year of publication: 1.863
Journal in the top 25%: Yes
Position of publication: 11
No. of journals in the cat.: 361

Source of citations: SCOPUS
Citations: 33

Source of citations: WOS
Citations: 29

55 Benitez-Guerrero, Monica; Sarrion, Beatriz; Perejon, Antonio; Sanchez-Jimenez, Pedro E.; Perez-Maqueda, Luis A.; Manuel Valverde, Jose. Large-scale high-temperature solar energy storage using natural minerals. SOLAR ENERGY MATERIALS AND SOLAR CELLS. 168, pp. 14 - 21. ELSEVIER SCIENCE BV; ELSEVIER, 2017. Available on-line at: <https://doi.org/10.1016/j.solmat.2017.04.013>. ISSN 0927-0248, ISSN 1879-3398
DOI: 10.1016/j.solmat.2017.04.013
Handle: 11441/143335
Código WOS: WOS:000405883900003
Código Scopus: 85017428680
Type of production: Scientific paper
Format: Journal
Position of signature: 6
Total no. authors: 6
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - ENERGY & FUELS
Impact index in year of publication: 5.018
Journal in the top 25%: Yes
Position of publication: 17
No. of journals in the cat.: 97

Impact source: ISI
Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
Impact index in year of publication: 5.018
Journal in the top 25%: Yes

Position of publication: 47 — **No. of journals in the cat.:** 285

Impact source: ISI — **Category:** Science Edition - PHYSICS, APPLIED
Impact index in year of publication: 5.018 — **Journal in the top 25%:** Yes
Position of publication: 22 — **No. of journals in the cat.:** 146

Impact source: SCOPUS — **Category:** Electronic, Optical and Magnetic Materials
Impact index in year of publication: 1.459 — **Journal in the top 25%:** Yes
Position of publication: 27 — **No. of journals in the cat.:** 211

Impact source: SCOPUS — **Category:** Electronic, Optical and Magnetic Materials
Impact index in year of publication: 1.459 — **Journal in the top 25%:** Yes
Position of publication: 27 — **No. of journals in the cat.:** 229

Impact source: SCOPUS — **Category:** Renewable Energy, Sustainability and the Environment
Impact index in year of publication: 1.459 — **Journal in the top 25%:** Yes
Position of publication: 28 — **No. of journals in the cat.:** 145

Impact source: SCOPUS — **Category:** Renewable Energy, Sustainability and the Environment
Impact index in year of publication: 1.459 — **Journal in the top 25%:** Yes
Position of publication: 28 — **No. of journals in the cat.:** 182

Impact source: SCOPUS — **Category:** Surfaces, Coatings and Films
Impact index in year of publication: 1.459 — **Journal in the top 25%:** Yes
Position of publication: 9 — **No. of journals in the cat.:** 114

Impact source: SCOPUS — **Category:** Surfaces, Coatings and Films
Impact index in year of publication: 1.459 — **Journal in the top 25%:** Yes
Position of publication: 9 — **No. of journals in the cat.:** 121

Source of citations: SCOPUS — **Citations:** 143

Source of citations: WOS — **Citations:** 129

56 Ortiz, C.; Chacartegui, R.; Valverde, J. M.; Alovisio, A.; Becerra, J. A.. Power cycles integration in concentrated solar power plants with energy storage based on calcium looping. ENERGY CONVERSION AND MANAGEMENT. 149, pp. 815 - 829. PERGAMON-ELSEVIER SCIENCE LTD, 2017. Available on-line at: <https://doi.org/10.1016/j.enconman.2017.03.029>. ISSN 0196-8904, ISSN 1879-2227

DOI: 10.1016/j.enconman.2017.03.029
Handle: 11441/69843
Código WOS: WOS:000411537200067
Código Scopus: 85015669243
Type of production: Scientific paper — **Format:** Journal
Position of signature: 3
Total no. authors: 5

Impact source: ISI — **Category:** Science Edition - ENERGY & FUELS
Impact index in year of publication: 6.377 — **Journal in the top 25%:** Yes
Position of publication: 11 — **No. of journals in the cat.:** 97

Impact source: ISI — **Category:** Science Edition - MECHANICS
Impact index in year of publication: 6.377 — **Journal in the top 25%:** Yes
Position of publication: 3 — **No. of journals in the cat.:** 134

Impact source: ISI
Impact index in year of publication: 6.377
Position of publication: 2
Category: Science Edition - THERMODYNAMICS
Journal in the top 25%: Yes
No. of journals in the cat.: 59

Impact source: SCOPUS
Impact index in year of publication: 2.537
Position of publication: 6
Category: Energy Engineering and Power Technology
Journal in the top 25%: Yes
No. of journals in the cat.: 221

Impact source: SCOPUS
Impact index in year of publication: 2.537
Position of publication: 4
Category: Fuel Technology
Journal in the top 25%: Yes
No. of journals in the cat.: 98

Impact source: SCOPUS
Impact index in year of publication: 2.537
Position of publication: 2
Category: Nuclear Energy and Engineering
Journal in the top 25%: Yes
No. of journals in the cat.: 64

Impact source: SCOPUS
Impact index in year of publication: 2.537
Position of publication: 10
Category: Renewable Energy, Sustainability and the Environment
Journal in the top 25%: Yes
No. of journals in the cat.: 182

Source of citations: SCOPUS
Citations: 156

Source of citations: WOS
Citations: 141

57 Perejón, Antonio; Valverde, José Manuel; Miranda-Pizarro, Juan; Sánchez-Jiménez, Pedro E.; Pérez-Maqueda, Luis A.. Large-Scale Storage of Concentrated Solar Power from Industrial Waste. ACS SUSTAINABLE CHEMISTRY & ENGINEERING. 5 - 3, pp. 2265 - 2272. AMER CHEMICAL SOC, 2017. Available on-line at: <https://doi.org/10.1021/acssuschemeng.6b02576>. ISSN 2168-0485
DOI: 10.1021/acssuschemeng.6b02576
Handle: 11441/143336
Código WOS: WOS:000395846900028
Código Scopus: 85014532072
Type of production: Scientific paper
Format: Journal
Position of signature: 2
Total no. authors: 5
Corresponding author: Yes

Impact source: ISI
Impact index in year of publication: 6.140
Position of publication: 29
Category: Science Edition - CHEMISTRY, MULTIDISCIPLINARY
Journal in the top 25%: Yes
No. of journals in the cat.: 171

Impact source: ISI
Impact index in year of publication: 6.140
Position of publication: 10
Category: Science Edition - ENGINEERING, CHEMICAL
Journal in the top 25%: Yes
No. of journals in the cat.: 137

Impact source: ISI
Impact index in year of publication: 6.140
Position of publication: 5
Category: Science Edition - GREEN & SUSTAINABLE SCIENCE & TECHNOLOGY
Journal in the top 25%: Yes
No. of journals in the cat.: 33

Impact source: SCOPUS
Impact index in year of publication: 1.657
Position of publication: 18
Category: Chemical Engineering (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 309

Impact source: SCOPUS
Impact index in year of publication: 1.657
Position of publication: 18
Category: Chemical Engineering (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 332

Impact source: SCOPUS
Impact index in year of publication: 1.657
Position of publication: 40
Category: Chemistry (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 417

Impact source: SCOPUS
Impact index in year of publication: 1.657
Position of publication: 40
Category: Chemistry (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 451

Impact source: SCOPUS
Impact index in year of publication: 1.657
Position of publication: 17
Category: Environmental Chemistry
Journal in the top 25%: Yes
No. of journals in the cat.: 100

Impact source: SCOPUS
Impact index in year of publication: 1.657
Position of publication: 17
Category: Environmental Chemistry
Journal in the top 25%: Yes
No. of journals in the cat.: 112

Impact source: SCOPUS
Impact index in year of publication: 1.657
Position of publication: 22
Category: Renewable Energy, Sustainability and the Environment
Journal in the top 25%: Yes
No. of journals in the cat.: 145

Impact source: SCOPUS
Impact index in year of publication: 1.657
Position of publication: 22
Category: Renewable Energy, Sustainability and the Environment
Journal in the top 25%: Yes
No. of journals in the cat.: 182

Source of citations: SCOPUS
Citations: 24

Source of citations: WOS
Citations: 22

58 Ortiz, C.; Valverde, J. M.; Chacartegui, R.; Benítez-Guerrero, M.; Perejón, A.; Romeo, L. M.. The Oxy-CaL process: A novel CO2 capture system by integrating partial oxy-combustion with the Calcium-Looping process. APPLIED ENERGY. 196, pp. 1 - 17. ELSEVIER SCI LTD; Elsevier BV, 2017. Available on-line at: <https://doi.org/10.1016/j.apenergy.2017.03.120>. ISSN 0306-2619, ISSN 1872-9118
DOI: 10.1016/j.apenergy.2017.03.120
Handle: 11441/69494
Código WOS: WOS:000401048000001
Código Scopus: 85016593793
Type of production: Scientific paper
Format: Journal
Position of signature: 2
Total no. authors: 6

Impact source: ISI
Impact index in year of publication: 7.900
Position of publication: 8
Category: Science Edition - ENERGY & FUELS
Journal in the top 25%: Yes
No. of journals in the cat.: 97

Impact source: ISI
Impact index in year of publication: 7.900
Position of publication: 4
Category: Science Edition - ENGINEERING, CHEMICAL
Journal in the top 25%: Yes
No. of journals in the cat.: 137

Impact source: SCOPUS
Category: Building and Construction

Impact index in year of publication: 3.162
Position of publication: 2
Journal in the top 25%: Yes
No. of journals in the cat.: 184

Impact source: SCOPUS
Impact index in year of publication: 3.162
Position of publication: 2
Category: Civil and Structural Engineering
Journal in the top 25%: Yes
No. of journals in the cat.: 275

Impact source: SCOPUS
Impact index in year of publication: 3.162
Position of publication: 2
Category: Energy (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 110

Impact source: SCOPUS
Impact index in year of publication: 3.162
Position of publication: 5
Category: Energy Engineering and Power Technology
Journal in the top 25%: Yes
No. of journals in the cat.: 189

Impact source: SCOPUS
Impact index in year of publication: 3.162
Position of publication: 4
Category: Fuel Technology
Journal in the top 25%: Yes
No. of journals in the cat.: 88

Impact source: SCOPUS
Impact index in year of publication: 3.162
Position of publication: 4
Category: Management, Monitoring, Policy and Law
Journal in the top 25%: Yes
No. of journals in the cat.: 330

Impact source: SCOPUS
Impact index in year of publication: 3.162
Position of publication: 9
Category: Mechanical Engineering
Journal in the top 25%: Yes
No. of journals in the cat.: 606

Impact source: SCOPUS
Impact index in year of publication: 3.162
Position of publication: 2
Category: Nuclear Energy and Engineering
Journal in the top 25%: Yes
No. of journals in the cat.: 58

Source of citations: SCOPUS
Citations: 47

Source of citations: WOS
Citations: 41

59 Valverde, Jose Manuel; Medina, SantiagoReduction of Calcination Temperature in the Calcium Looping Process for CO<inf>2</inf> Capture by Using Helium: In Situ XRD Analysis. ACS SUSTAINABLE CHEMISTRY & ENGINEERING. 4 - 12, pp. 7090 - 7097. AMER CHEMICAL SOC, 2016. Available on-line at: <https://doi.org/10.1021/acssuschemeng.6b01966>. ISSN 2168-0485
DOI: 10.1021/acssuschemeng.6b01966
Código WOS: WOS:000389497900094
Código Scopus: 85001913308
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 2

Impact source: ISI
Impact index in year of publication: 5.951
Position of publication: 26
Category: Science Edition - CHEMISTRY, MULTIDISCIPLINARY
Journal in the top 25%: Yes
No. of journals in the cat.: 166

Impact source: ISI
Impact index in year of publication: 5.951
Position of publication: 9
Category: Science Edition - ENGINEERING, CHEMICAL
Journal in the top 25%: Yes
No. of journals in the cat.: 135

Impact source: ISI
Category: Science Edition - GREEN & SUSTAINABLE SCIENCE & TECHNOLOGY
Impact index in year of publication: 5.951
Journal in the top 25%: Yes
Position of publication: 4
No. of journals in the cat.: 31

Impact source: SCOPUS
Category: Chemical Engineering (miscellaneous)
Impact index in year of publication: 1.572
Journal in the top 25%: Yes
Position of publication: 18
No. of journals in the cat.: 310

Impact source: SCOPUS
Category: Chemical Engineering (miscellaneous)
Impact index in year of publication: 1.572
Journal in the top 25%: Yes
Position of publication: 18
No. of journals in the cat.: 332

Impact source: SCOPUS
Category: Chemistry (miscellaneous)
Impact index in year of publication: 1.572
Journal in the top 25%: Yes
Position of publication: 37
No. of journals in the cat.: 418

Impact source: SCOPUS
Category: Chemistry (miscellaneous)
Impact index in year of publication: 1.572
Journal in the top 25%: Yes
Position of publication: 37
No. of journals in the cat.: 446

Impact source: SCOPUS
Category: Environmental Chemistry
Impact index in year of publication: 1.572
Journal in the top 25%: Yes
Position of publication: 16
No. of journals in the cat.: 101

Impact source: SCOPUS
Category: Environmental Chemistry
Impact index in year of publication: 1.572
Journal in the top 25%: Yes
Position of publication: 16
No. of journals in the cat.: 111

Impact source: SCOPUS
Category: Renewable Energy, Sustainability and the Environment
Impact index in year of publication: 1.572
Journal in the top 25%: Yes
Position of publication: 23
No. of journals in the cat.: 141

Impact source: SCOPUS
Category: Renewable Energy, Sustainability and the Environment
Impact index in year of publication: 1.572
Journal in the top 25%: Yes
Position of publication: 23
No. of journals in the cat.: 168

Source of citations: SCOPUS
Citations: 37

Source of citations: WOS
Citations: 35

60 Chacartegui, R.; Alovisio, A.; Ortiz, C.; Valverde, J. M.; Verda, V.; Becerra, J. A.. Thermochemical energy storage of concentrated solar power by integration of the calcium looping process and a CO2 power cycle. APPLIED ENERGY. 173, pp. 589 - 605. ELSEVIER SCI LTD; Elsevier BV, 2016. Available on-line at: <https://doi.org/10.1016/j.apenergy.2016.04.053>. ISSN 0306-2619, ISSN 1872-9118

DOI: 10.1016/j.apenergy.2016.04.053
Handle: 11441/52539
Código WOS: WOS:000377235200049
Código Scopus: 84963767202
Type of production: Scientific paper
Format: Journal
Position of signature: 4
Total no. authors: 6

Impact source: ISI
Category: Science Edition - ENERGY & FUELS

Impact index in year of publication: 7.182
Position of publication: 6
Journal in the top 25%: Yes
No. of journals in the cat.: 92

Impact source: ISI
Category: Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 7.182
Position of publication: 4
Journal in the top 25%: Yes
No. of journals in the cat.: 135

Impact source: SCOPUS
Impact index in year of publication: 3.011
Position of publication: 2
Category: Building and Construction
Journal in the top 25%: Yes
No. of journals in the cat.: 186

Impact source: SCOPUS
Impact index in year of publication: 3.011
Position of publication: 1
Category: Civil and Structural Engineering
Journal in the top 25%: Yes
No. of journals in the cat.: 272

Impact source: SCOPUS
Impact index in year of publication: 3.011
Position of publication: 1
Category: Energy (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 107

Impact source: SCOPUS
Impact index in year of publication: 3.011
Position of publication: 4
Category: Energy Engineering and Power Technology
Journal in the top 25%: Yes
No. of journals in the cat.: 188

Impact source: SCOPUS
Impact index in year of publication: 3.011
Position of publication: 2
Category: Fuel Technology
Journal in the top 25%: Yes
No. of journals in the cat.: 87

Impact source: SCOPUS
Impact index in year of publication: 3.011
Position of publication: 4
Category: Management, Monitoring, Policy and Law
Journal in the top 25%: Yes
No. of journals in the cat.: 316

Impact source: SCOPUS
Impact index in year of publication: 3.011
Position of publication: 8
Category: Mechanical Engineering
Journal in the top 25%: Yes
No. of journals in the cat.: 606

Impact source: SCOPUS
Impact index in year of publication: 3.011
Position of publication: 2
Category: Nuclear Energy and Engineering
Journal in the top 25%: Yes
No. of journals in the cat.: 58

Source of citations: SCOPUS
Citations: 296

Source of citations: WOS
Citations: 263

61 Miranda-Pizarro, Juan; Perejón, Antonio; Valverde, Jose Manuel; Sánchez-Jiménez, Pedro E.; Pérez-Maqueda, Luis A.. Use of steel slag for CO2 capture under realistic calcium-looping conditions. RSC ADVANCES. 6 - 44, pp. 37656 - 37663. ROYAL SOC CHEMISTRY, 2016. Available on-line at: <https://doi.org/10.1039/c6ra03210a>. ISSN 2046-2069
DOI: 10.1039/c6ra03210a
Handle: 11441/71307
Código WOS: WOS:000374495400038
Código Scopus: 84966429133
Type of production: Scientific paper
Format: Journal
Position of signature: 3
Total no. authors: 5

Impact source: ISI
Category: Science Edition - CHEMISTRY, MULTIDISCIPLINARY
Impact index in year of publication: 3.108
Journal in the top 25%: No
Position of publication: 59
No. of journals in the cat.: 166

Impact source: SCOPUS
Category: Chemical Engineering (miscellaneous)
Impact index in year of publication: 0.889
Journal in the top 25%: Yes
Position of publication: 42
No. of journals in the cat.: 332

Impact source: SCOPUS
Category: Chemistry (miscellaneous)
Impact index in year of publication: 0.889
Journal in the top 25%: Yes
Position of publication: 78
No. of journals in the cat.: 446

Source of citations: SCOPUS
Citations: 34

Source of citations: WOS
Citations: 26

62 Ortiz, Carlos; Valverde, José M.; Chacartegui, Ricardo. Energy Consumption for CO2 Capture by means of the Calcium Looping Process: A Comparative Analysis using Limestone, Dolomite, and Steel Slag. ENERGY TECHNOLOGY. 4 - 10, pp. 1317 - 1327. WILEY-V C H VERLAG GMBH, 2016. Available on-line at: <https://doi.org/10.1002/ente.201600390>. ISSN 2194-4288, ISSN 2194-4296

DOI: 10.1002/ente.201600390
Código WOS: WOS:000385721000021
Código Scopus: 84991396046
Type of production: Scientific paper
Format: Journal
Position of signature: 2
Total no. authors: 3

Impact source: ISI
Category: Science Edition - ENERGY & FUELS
Impact index in year of publication: 2.789
Journal in the top 25%: No
Position of publication: 36
No. of journals in the cat.: 92

Impact source: SCOPUS
Category: Energy (miscellaneous)
Impact index in year of publication: 0.917
Journal in the top 25%: Yes
Position of publication: 15
No. of journals in the cat.: 107

Source of citations: SCOPUS
Citations: 28

Source of citations: WOS
Citations: 22

63 Perejón, Antonio; Miranda-Pizarro, Juan; Pérez-Maqueda, Luis A.; Valverde, Jose Manuel. On the relevant role of solids residence time on their CO2 capture performance in the Calcium Looping technology. ENERGY. 113, pp. 160 - 171. PERGAMON-ELSEVIER SCIENCE LTD, 2016. Available on-line at: <https://doi.org/10.1016/j.energy.2016.07.028>. ISSN 0360-5442, ISSN 1873-6785

DOI: 10.1016/j.energy.2016.07.028
Handle: 11441/79317
Código WOS: WOS:000386410500016
Código Scopus: 84978698338
Type of production: Scientific paper
Format: Journal
Position of signature: 4
Total no. authors: 4

Impact source: ISI
Category: Science Edition - ENERGY & FUELS
Impact index in year of publication: 4.520
Journal in the top 25%: Yes
Position of publication: 17
No. of journals in the cat.: 92

Impact source: ISI
Impact index in year of publication: 4.520
Position of publication: 3
Category: Science Edition - THERMODYNAMICS
Journal in the top 25%: Yes
No. of journals in the cat.: 58

Impact source: SCOPUS
Impact index in year of publication: 1.974
Position of publication: 6
Category: Building and Construction
Journal in the top 25%: Yes
No. of journals in the cat.: 186

Impact source: SCOPUS
Impact index in year of publication: 1.974
Position of publication: 9
Category: Civil and Structural Engineering
Journal in the top 25%: Yes
No. of journals in the cat.: 302

Impact source: SCOPUS
Impact index in year of publication: 1.974
Position of publication: 24
Category: Electrical and Electronic Engineering
Journal in the top 25%: Yes
No. of journals in the cat.: 679

Impact source: SCOPUS
Impact index in year of publication: 1.974
Position of publication: 6
Category: Energy (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 107

Impact source: SCOPUS
Impact index in year of publication: 1.974
Position of publication: 7
Category: Industrial and Manufacturing Engineering
Journal in the top 25%: Yes
No. of journals in the cat.: 361

Impact source: SCOPUS
Impact index in year of publication: 1.974
Position of publication: 21
Category: Mechanical Engineering
Journal in the top 25%: Yes
No. of journals in the cat.: 606

Impact source: SCOPUS
Impact index in year of publication: 1.974
Position of publication: 4
Category: Pollution
Journal in the top 25%: Yes
No. of journals in the cat.: 131

Source of citations: SCOPUS
Citations: 29

Source of citations: WOS
Citations: 23

64 Sarrion, Beatriz; Valverde, Jose Manuel; Perejon, Antonio; Perez-Maqueda, Luis; Sanchez-Jimenez, Pedro E.. On the Multicycle Activity of Natural Limestone/Dolomite for Thermochemical Energy Storage of Concentrated Solar Power. ENERGY TECHNOLOGY. 4 - 8, pp. 1013 - 1019. WILEY-V C H VERLAG GMBH, 2016. Available on-line at: <https://doi.org/10.1002/ente.201600068>. ISSN 2194-4288, ISSN 2194-4296
DOI: 10.1002/ente.201600068
Código WOS: WOS:000382549500013
Código Scopus: 84991403916
Type of production: Scientific paper
Format: Journal
Position of signature: 2
Total no. authors: 5
Corresponding author: Yes

Impact source: ISI
Impact index in year of publication: 2.789
Position of publication: 36
Category: Science Edition - ENERGY & FUELS
Journal in the top 25%: No
No. of journals in the cat.: 92

Impact source: SCOPUS
Impact index in year of publication: 0.917
Position of publication: 15
Category: Energy (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 107

Source of citations: SCOPUS
Citations: 106

Source of citations: WOS **Citations:** 97

65 Ortiz, C.; Chacartegui, R.; Valverde, J. M.; Becerra, J. A.. A new integration model of the calcium looping technology into coal fired power plants for CO2 capture. APPLIED ENERGY. 169, pp. 408 - 420. ELSEVIER SCI LTD; Elsevier BV, 2016. Available on-line at: <https://doi.org/10.1016/j.apenergy.2016.02.050>. ISSN 0306-2619, ISSN 1872-9118
DOI: 10.1016/j.apenergy.2016.02.050
Código WOS: WOS:000374196200034
Código Scopus: 84958281078
Type of production: Scientific paper **Format:** Journal
Position of signature: 3
Total no. authors: 4

Impact source: ISI **Category:** Science Edition - ENERGY & FUELS
Impact index in year of publication: 7.182 **Journal in the top 25%:** Yes
Position of publication: 6 **No. of journals in the cat.:** 92

Impact source: ISI **Category:** Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 7.182 **Journal in the top 25%:** Yes
Position of publication: 4 **No. of journals in the cat.:** 135

Impact source: SCOPUS **Category:** Building and Construction
Impact index in year of publication: 3.011 **Journal in the top 25%:** Yes
Position of publication: 2 **No. of journals in the cat.:** 186

Impact source: SCOPUS **Category:** Civil and Structural Engineering
Impact index in year of publication: 3.011 **Journal in the top 25%:** Yes
Position of publication: 1 **No. of journals in the cat.:** 272

Impact source: SCOPUS **Category:** Energy (miscellaneous)
Impact index in year of publication: 3.011 **Journal in the top 25%:** Yes
Position of publication: 1 **No. of journals in the cat.:** 107

Impact source: SCOPUS **Category:** Energy Engineering and Power Technology
Impact index in year of publication: 3.011 **Journal in the top 25%:** Yes
Position of publication: 4 **No. of journals in the cat.:** 188

Impact source: SCOPUS **Category:** Fuel Technology
Impact index in year of publication: 3.011 **Journal in the top 25%:** Yes
Position of publication: 2 **No. of journals in the cat.:** 87

Impact source: SCOPUS **Category:** Management, Monitoring, Policy and Law
Impact index in year of publication: 3.011 **Journal in the top 25%:** Yes
Position of publication: 4 **No. of journals in the cat.:** 316

Impact source: SCOPUS **Category:** Mechanical Engineering
Impact index in year of publication: 3.011 **Journal in the top 25%:** Yes
Position of publication: 8 **No. of journals in the cat.:** 606

Impact source: SCOPUS **Category:** Nuclear Energy and Engineering
Impact index in year of publication: 3.011 **Journal in the top 25%:** Yes
Position of publication: 2 **No. of journals in the cat.:** 58

Source of citations: SCOPUS **Citations:** 62

Source of citations: WOS **Citations:** 52

66 Valverde, Jose Manuel. Acoustic streaming and Sun's meridional circulation. RESEARCH IN ASTRONOMY AND ASTROPHYSICS. 16 - 9, NATL ASTRONOMICAL OBSERVATORIES, CHIN ACAD SCIENCES, 2016. Available on-line at: <https://doi.org/10.1088/1674-4527/16/9/145>. ISSN 1674-4527

DOI: 10.1088/1674-4527/16/9/145
Código WOS: WOS:000385995800013
Código Scopus: 84986880398
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 1
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - ASTRONOMY & ASTROPHYSICS
Impact index in year of publication: 1.371
Journal in the top 25%: No
Position of publication: 42
No. of journals in the cat.: 63

Impact source: SCOPUS
Category: Astronomy and Astrophysics
Impact index in year of publication: 0.629
Journal in the top 25%: No
Position of publication: 37
No. of journals in the cat.: 78

Impact source: SCOPUS
Category: Space and Planetary Science
Impact index in year of publication: 0.629
Journal in the top 25%: No
Position of publication: 41
No. of journals in the cat.: 89

Source of citations: SCOPUS
Citations: 0

Source of citations: WOS
Citations: 0

67 Ebri, J. M.P.; Valverde, J. M.; Quintanilla, M. A.S.. High Intensity Sound Enhances Calcination and CO<inf>2</inf> Capture of Limestone and Dolomite at Ca-Looping Conditions. INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH. 55 - 31, pp. 8671 - 8678. AMER CHEMICAL SOC, 2016. Available on-line at: <https://doi.org/10.1021/acs.iecr.6b01616>. ISSN 0888-5885, ISSN 1520-5045

DOI: 10.1021/acs.iecr.6b01616
Código WOS: WOS:000381332100018
Código Scopus: 84981341611
Type of production: Scientific paper
Format: Journal
Position of signature: 2
Total no. authors: 3
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 2.843
Journal in the top 25%: No
Position of publication: 34
No. of journals in the cat.: 135

Impact source: SCOPUS
Category: Chemical Engineering (miscellaneous)
Impact index in year of publication: 0.950
Journal in the top 25%: Yes
Position of publication: 37
No. of journals in the cat.: 310

Impact source: SCOPUS
Category: Chemical Engineering (miscellaneous)
Impact index in year of publication: 0.950
Journal in the top 25%: Yes
Position of publication: 37
No. of journals in the cat.: 332

Impact source: SCOPUS
Category: Chemistry (miscellaneous)
Impact index in year of publication: 0.950
Journal in the top 25%: Yes
Position of publication: 70
No. of journals in the cat.: 418

Impact source: SCOPUS
Impact index in year of publication: 0.950
Position of publication: 70
Category: Chemistry (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 446

Impact source: SCOPUS
Impact index in year of publication: 0.950
Position of publication: 46
Category: Industrial and Manufacturing Engineering
Journal in the top 25%: Yes
No. of journals in the cat.: 340

Impact source: SCOPUS
Impact index in year of publication: 0.950
Position of publication: 46
Category: Industrial and Manufacturing Engineering
Journal in the top 25%: Yes
No. of journals in the cat.: 361

Source of citations: SCOPUS
Citations: 8

Source of citations: WOS
Citations: 7

68 Sánchez-Jiménez, Pedro E.; Valverde, José M.; Perejón, Antonio; De La Calle, Antonio; Medina, Santiago; Pérez-Maqueda, Luis A.. Influence of Ball Milling on CaO Crystal Growth During Limestone and Dolomite Calcination: Effect on CO2 Capture at Calcium Looping Conditions. CRYSTAL GROWTH & DESIGN. 16 - 12, pp. 7025 - 7036. AMER CHEMICAL SOC, 2016. Available on-line at: <https://doi.org/10.1021/acs.cgd.6b01228>. ISSN 1528-7483, ISSN 1528-7505
DOI: 10.1021/acs.cgd.6b01228
Handle: 11441/139312
Código WOS: WOS:000389624200042
Código Scopus: 85002853692
Type of production: Scientific paper
Format: Journal
Position of signature: 2
Total no. authors: 6

Impact source: ISI
Impact index in year of publication: 4.055
Position of publication: 42
Category: Science Edition - CHEMISTRY, MULTIDISCIPLINARY
Journal in the top 25%: No
No. of journals in the cat.: 166

Impact source: ISI
Impact index in year of publication: 4.055
Position of publication: 4
Category: Science Edition - CRYSTALLOGRAPHY
Journal in the top 25%: Yes
No. of journals in the cat.: 26

Impact source: ISI
Impact index in year of publication: 4.055
Position of publication: 51
Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
Journal in the top 25%: Yes
No. of journals in the cat.: 275

Impact source: SCOPUS
Impact index in year of publication: 1.177
Position of publication: 54
Category: Chemistry (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 446

Impact source: SCOPUS
Impact index in year of publication: 1.177
Position of publication: 55
Category: Condensed Matter Physics
Journal in the top 25%: Yes
No. of journals in the cat.: 418

Impact source: SCOPUS
Impact index in year of publication: 1.177
Position of publication: 84
Category: Materials Science (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 579

Source of citations: SCOPUS
Citations: 46

Source of citations: WOS **Citations:** 45

69 De La Calle Martos, Antonio; Valverde, Jose Manuel; Sanchez-Jimenez, Pedro E.; Perejón, Antonio; García-Garrido, Cristina; Perez-Maqueda, Luis A.. Effect of dolomite decomposition under CO2 on its multicycle CO2 capture behaviour under calcium looping conditions. PHYSICAL CHEMISTRY CHEMICAL PHYSICS. 18 - 24, pp. 16325 - 16336. ROYAL SOC CHEMISTRY, 2016. Available on-line at: <https://doi.org/10.1039/c6cp01149g>. ISSN 1463-9076, ISSN 1463-9084

DOI: 10.1039/c6cp01149g
Handle: 11441/71309
Código WOS: WOS:000381056500032
Código Scopus: 84975108665
Type of production: Scientific paper **Format:** Journal
Position of signature: 2
Total no. authors: 6 **Corresponding author:** Yes
Impact source: ISI **Category:** Science Edition - CHEMISTRY, PHYSICAL
Impact index in year of publication: 4.123 **Journal in the top 25%:** No
Position of publication: 38 **No. of journals in the cat.:** 146

Impact source: ISI **Category:** Science Edition - PHYSICS, ATOMIC, MOLECULAR & CHEMICAL
Impact index in year of publication: 4.123 **Journal in the top 25%:** Yes
Position of publication: 6 **No. of journals in the cat.:** 36

Impact source: SCOPUS **Category:** Physical and Theoretical Chemistry
Impact index in year of publication: 1.685 **Journal in the top 25%:** Yes
Position of publication: 18 **No. of journals in the cat.:** 158

Impact source: SCOPUS **Category:** Physics and Astronomy (miscellaneous)
Impact index in year of publication: 1.685 **Journal in the top 25%:** Yes
Position of publication: 22 **No. of journals in the cat.:** 273

Source of citations: SCOPUS **Citations:** 22

Source of citations: WOS **Citations:** 21

70 Zafar, U.; Hare, C.; Calvert, G.; Ghadiri, M.; Girimonte, R.; Formisani, B.; Quintanilla, M. A.S.; Valverde, J. M.. Comparison of cohesive powder flowability measured by Schulze Shear Cell, Raining Bed Method, Sevilla Powder Tester and new Ball Indentation Method. POWDER TECHNOLOGY. 286, pp. 807 - 816. ELSEVIER SCIENCE BV; ELSEVIER, 2015. Available on-line at: <https://doi.org/10.1016/j.powtec.2015.09.010>. ISSN 0032-5910, ISSN 1873-328X

DOI: 10.1016/j.powtec.2015.09.010
Código WOS: WOS:000364247200091
Código Scopus: 84942575307
Type of production: Scientific paper **Format:** Journal
Position of signature: 8
Total no. authors: 8
Impact source: ISI **Category:** Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 2.759 **Journal in the top 25%:** Yes
Position of publication: 26 **No. of journals in the cat.:** 135

Impact source: SCOPUS **Category:** Chemical Engineering (miscellaneous)
Impact index in year of publication: 0.939 **Journal in the top 25%:** Yes

Position of publication: 42 **No. of journals in the cat.:** 323

Source of citations: SCOPUS **Citations:** 33

Source of citations: WOS **Citations:** 31

71 Espin, M. J.; Quintanilla, M. A.S.; Valverde, J. M.. Effect of particle size polydispersity on the yield stress of magnetofluidized beds as depending on the magnetic field orientation. CHEMICAL ENGINEERING JOURNAL. 277, pp. 269 - 285. Elsevier Science; ELSEVIER SCIENCE SA, 2015. Available on-line at: <https://doi.org/10.1016/j.cej.2015.04.124>. ISSN 1385-8947, ISSN 1873-3212

DOI: 10.1016/j.cej.2015.04.124
Código WOS: WOS:000356984400032
Código Scopus: 84929166612
Type of production: Scientific paper **Format:** Journal
Position of signature: 3
Total no. authors: 3 **Corresponding author:** Yes

Impact source: ISI **Category:** Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 5.310 **Journal in the top 25%:** Yes
Position of publication: 8 **No. of journals in the cat.:** 135

Impact source: ISI **Category:** Science Edition - ENGINEERING, ENVIRONMENTAL
Impact index in year of publication: 5.310 **Journal in the top 25%:** Yes
Position of publication: 4 **No. of journals in the cat.:** 50

Impact source: SCOPUS **Category:** Chemical Engineering (miscellaneous)
Impact index in year of publication: 1.676 **Journal in the top 25%:** Yes
Position of publication: 17 **No. of journals in the cat.:** 323

Impact source: SCOPUS **Category:** Chemistry (miscellaneous)
Impact index in year of publication: 1.676 **Journal in the top 25%:** Yes
Position of publication: 35 **No. of journals in the cat.:** 437

Impact source: SCOPUS **Category:** Environmental Chemistry
Impact index in year of publication: 1.676 **Journal in the top 25%:** Yes
Position of publication: 13 **No. of journals in the cat.:** 107

Impact source: SCOPUS **Category:** Industrial and Manufacturing Engineering
Impact index in year of publication: 1.676 **Journal in the top 25%:** Yes
Position of publication: 13 **No. of journals in the cat.:** 353

Source of citations: SCOPUS **Citations:** 21

Source of citations: WOS **Citations:** 19

72 Soria-Hoyo, C.; Valverde, J. M.; Van Ommen, J. R.; Sánchez-Jiménez, P. E.; Pérez-Maqueda, L. A.; Sayagués, M. J.. Synthesis of a nanosilica supported CO <inf>2</inf> sorbent in a fluidized bed reactor. APPLIED SURFACE SCIENCE. 328, pp. 548 - 553. ELSEVIER SCIENCE BV; ELSEVIER, 2015. Available on-line at: <https://doi.org/10.1016/j.apsusc.2014.12.106>. ISSN 0169-4332, ISSN 1873-5584

DOI: 10.1016/j.apsusc.2014.12.106
Handle: 11441/73020
Código WOS: WOS:000349615800070
Código Scopus: 84922237184
Type of production: Scientific paper **Format:** Journal

Position of signature: 2
Total no. authors: 6

Impact source: ISI
Impact index in year of publication: 3.150
Position of publication: 49
Category: Science Edition - CHEMISTRY, PHYSICAL
Journal in the top 25%: No
No. of journals in the cat.: 144

Impact source: ISI
Impact index in year of publication: 3.150
Position of publication: 1
Category: Science Edition - MATERIALS SCIENCE, COATINGS & FILMS
Journal in the top 25%: Yes
No. of journals in the cat.: 18

Impact source: ISI
Impact index in year of publication: 3.150
Position of publication: 27
Category: Science Edition - PHYSICS, APPLIED
Journal in the top 25%: Yes
No. of journals in the cat.: 145

Impact source: ISI
Impact index in year of publication: 3.150
Position of publication: 17
Category: Science Edition - PHYSICS, CONDENSED MATTER
Journal in the top 25%: No
No. of journals in the cat.: 67

Impact source: SCOPUS
Impact index in year of publication: 0.890
Position of publication: 15
Category: Surfaces, Coatings and Films
Journal in the top 25%: Yes
No. of journals in the cat.: 117

Source of citations: SCOPUS
Citations: 16

Source of citations: WOS
Citations: 16

73 Valverde, Jose Manuel. Pattern-formation under acoustic driving forces. CONTEMPORARY PHYSICS. 56 - 3, pp. 338 - 358. TAYLOR & FRANCIS LTD, 2015. Available on-line at: <https://doi.org/10.1080/00107514.2015.1008742>. ISSN 0010-7514, ISSN 1366-5812
DOI: 10.1080/00107514.2015.1008742
Código WOS: WOS:000359700000005
Código Scopus: 84937972761
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 1
Corresponding author: Yes

Impact source: ISI
Impact index in year of publication: 5.000
Position of publication: 7
Category: Science Edition - PHYSICS, MULTIDISCIPLINARY
Journal in the top 25%: Yes
No. of journals in the cat.: 79

Impact source: SCOPUS
Impact index in year of publication: 1.408
Position of publication: 29
Category: Physics and Astronomy (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 263

Source of citations: SCOPUS
Citations: 14

Source of citations: WOS
Citations: 12

74 Valverde, J. M.; Sanchez-Jimenez, P. E.; Perez-Maqueda, L. A.. Limestone calcination nearby equilibrium: Kinetics, CaO crystal structure, sintering and reactivity. JOURNAL OF PHYSICAL CHEMISTRY C. 119 - 4, pp. 1623 - 1641. AMER CHEMICAL SOC, 2015. Available on-line at: <https://doi.org/10.1021/jp508745u>. ISSN 1932-7447, ISSN 1932-7455
DOI: 10.1021/jp508745u

Handle: 11441/134522
Código WOS: WOS:000348753000002
Código Scopus: 84921984905
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 3
Corresponding author: Yes

Impact source: ISI
Category: Science Edition - CHEMISTRY, PHYSICAL
Impact index in year of publication: 4.509
Journal in the top 25%: Yes
Position of publication: 30
No. of journals in the cat.: 144

Impact source: ISI
Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
Impact index in year of publication: 4.509
Journal in the top 25%: Yes
Position of publication: 40
No. of journals in the cat.: 271

Impact source: ISI
Category: Science Edition - NANOSCIENCE & NANOTECHNOLOGY
Impact index in year of publication: 4.509
Journal in the top 25%: No
Position of publication: 22
No. of journals in the cat.: 83

Impact source: SCOPUS
Category: Electronic, Optical and Magnetic Materials
Impact index in year of publication: 1.886
Journal in the top 25%: Yes
Position of publication: 19
No. of journals in the cat.: 217

Impact source: SCOPUS
Category: Energy (miscellaneous)
Impact index in year of publication: 1.886
Journal in the top 25%: Yes
Position of publication: 8
No. of journals in the cat.: 98

Impact source: SCOPUS
Category: Nanoscience and Nanotechnology
Impact index in year of publication: 1.886
Journal in the top 25%: Yes
Position of publication: 18
No. of journals in the cat.: 91

Impact source: SCOPUS
Category: Physical and Theoretical Chemistry
Impact index in year of publication: 1.886
Journal in the top 25%: Yes
Position of publication: 16
No. of journals in the cat.: 159

Impact source: SCOPUS
Category: Surfaces, Coatings and Films
Impact index in year of publication: 1.886
Journal in the top 25%: Yes
Position of publication: 4
No. of journals in the cat.: 117

Source of citations: SCOPUS
Citations: 145

Source of citations: WOS
Citations: 139

75 Ortiz, C.; Chacartegui, R.; Valverde, J. M.; Becerra, J. A.; Perez-Maqueda, L. A.. A new model of the carbonator reactor in the calcium looping technology for post-combustion CO2 capture. FUEL. 160 - 9500, pp. 328 - 338. ELSEVIER SCI LTD, 2015. Available on-line at: <https://doi.org/10.1016/j.fuel.2015.07.095>. ISSN 0016-2361, ISSN 1873-7153
DOI: 10.1016/j.fuel.2015.07.095
Handle: 11441/52556
Código WOS: WOS:000360710600037
Código Scopus: 84938821362
Type of production: Scientific paper
Format: Journal
Position of signature: 3
Total no. authors: 5

Impact source: ISI
Impact index in year of publication: 3.611
Position of publication: 23
Category: Science Edition - ENERGY & FUELS
Journal in the top 25%: No
No. of journals in the cat.: 88

Impact source: ISI
Impact index in year of publication: 3.611
Position of publication: 19
Category: Science Edition - ENGINEERING, CHEMICAL
Journal in the top 25%: Yes
No. of journals in the cat.: 135

Impact source: SCOPUS
Impact index in year of publication: 1.781
Position of publication: 14
Category: Chemical Engineering (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 323

Impact source: SCOPUS
Impact index in year of publication: 1.781
Position of publication: 11
Category: Energy Engineering and Power Technology
Journal in the top 25%: Yes
No. of journals in the cat.: 203

Impact source: SCOPUS
Impact index in year of publication: 1.781
Position of publication: 7
Category: Fuel Technology
Journal in the top 25%: Yes
No. of journals in the cat.: 95

Impact source: SCOPUS
Impact index in year of publication: 1.781
Position of publication: 17
Category: Organic Chemistry
Journal in the top 25%: Yes
No. of journals in the cat.: 178

Source of citations: SCOPUS
Citations: 51

Source of citations: WOS
Citations: 49

76 Valverde, Jose ManuelConvection and fluidization in oscillatory granular flows: The role of acoustic streaming. EUROPEAN PHYSICAL JOURNAL E. 38 - 6, SPRINGER, 2015. Available on-line at: <https://doi.org/10.1140/epje/i2015-15066-7>. ISSN 1292-8941, ISSN 1292-895X
DOI: 10.1140/epje/i2015-15066-7
Código WOS: WOS:000357046900001
Código Scopus: 84933565990
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 1
Corresponding author: Yes

Impact source: ISI
Impact index in year of publication: 1.625
Position of publication: 100
Category: Science Edition - CHEMISTRY, PHYSICAL
Journal in the top 25%: No
No. of journals in the cat.: 144

Impact source: ISI
Impact index in year of publication: 1.625
Position of publication: 138
Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
Journal in the top 25%: No
No. of journals in the cat.: 271

Impact source: ISI
Impact index in year of publication: 1.625
Position of publication: 72
Category: Science Edition - PHYSICS, APPLIED
Journal in the top 25%: No
No. of journals in the cat.: 145

Impact source: ISI
Impact index in year of publication: 1.625
Position of publication: 44
Category: Science Edition - POLYMER SCIENCE
Journal in the top 25%: No
No. of journals in the cat.: 85

Impact source: SCOPUS
Impact index in year of publication: 0.668
Position of publication: 65
Category: Biophysics
Journal in the top 25%: No
No. of journals in the cat.: 136

Impact source: SCOPUS
Impact index in year of publication: 0.668
Position of publication: 99
Category: Biotechnology
Journal in the top 25%: No
No. of journals in the cat.: 280

Impact source: SCOPUS
Impact index in year of publication: 0.668
Position of publication: 111
Category: Chemistry (miscellaneous)
Journal in the top 25%: No
No. of journals in the cat.: 437

Impact source: SCOPUS
Impact index in year of publication: 0.668
Position of publication: 139
Category: Materials Science (miscellaneous)
Journal in the top 25%: No
No. of journals in the cat.: 562

Impact source: SCOPUS
Impact index in year of publication: 0.668
Position of publication: 1.000
Category: Medicine (miscellaneous)
Journal in the top 25%: No
No. of journals in the cat.: 2.830

Impact source: SCOPUS
Impact index in year of publication: 0.668
Position of publication: 20
Category: Surfaces and Interfaces
Journal in the top 25%: No
No. of journals in the cat.: 52

Source of citations: SCOPUS
Citations: 13

Source of citations: WOS
Citations: 12

77 Valverde, Jose Manuel; Perejon, Antonio; Medina, Santiago; Perez-Maqueda, Luis A.. Thermal decomposition of dolomite under CO2: insights from TGA and in situ XRD analysis. PHYSICAL CHEMISTRY CHEMICAL PHYSICS. 17 - 44, pp. 30162 - 30176. ROYAL SOC CHEMISTRY, 2015. Available on-line at: <https://doi.org/10.1039/c5cp05596b>. ISSN 1463-9076, ISSN 1463-9084
DOI: 10.1039/c5cp05596b
Handle: 11441/72281
Código WOS: WOS:000364639700080
Código Scopus: 84946600434
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 4
Corresponding author: Yes

Impact source: ISI
Impact index in year of publication: 4.449
Position of publication: 32
Category: Science Edition - CHEMISTRY, PHYSICAL
Journal in the top 25%: Yes
No. of journals in the cat.: 144

Impact source: ISI
Impact index in year of publication: 4.449
Position of publication: 6
Category: Science Edition - PHYSICS, ATOMIC, MOLECULAR & CHEMICAL
Journal in the top 25%: Yes
No. of journals in the cat.: 35

Impact source: SCOPUS
Impact index in year of publication: 1.725
Position of publication: 20
Category: Physical and Theoretical Chemistry
Journal in the top 25%: Yes
No. of journals in the cat.: 159

Impact source: SCOPUS
Impact index in year of publication: 1.725
Position of publication: 24
Category: Physics and Astronomy (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 263

Source of citations: SCOPUS **Citations:** 109

Source of citations: WOS **Citations:** 99

78 Valverde, J. M.; Sanchez-Jimenez, P. E.; Perez-Maqueda, L. A.. Ca-looping for postcombustion CO<inf>2</inf> capture: A comparative analysis on the performances of dolomite and limestone. APPLIED ENERGY. 138, pp. 202 - 215. ELSEVIER SCI LTD; Elsevier BV, 2015. Available on-line at: <https://doi.org/10.1016/j.apenergy.2014.10.087>. ISSN 0306-2619, ISSN 1872-9118

DOI: 10.1016/j.apenergy.2014.10.087
Handle: 11441/80894
Código WOS: WOS:000347582700019
Código Scopus: 84920087770
Type of production: Scientific paper **Format:** Journal
Position of signature: 1
Total no. authors: 3 **Corresponding author:** Yes

Impact source: ISI **Category:** Science Edition - ENERGY & FUELS
Impact index in year of publication: 5.746 **Journal in the top 25%:** Yes
Position of publication: 10 **No. of journals in the cat.:** 88

Impact source: ISI **Category:** Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 5.746 **Journal in the top 25%:** Yes
Position of publication: 6 **No. of journals in the cat.:** 135

Impact source: SCOPUS **Category:** Building and Construction
Impact index in year of publication: 2.835 **Journal in the top 25%:** Yes
Position of publication: 3 **No. of journals in the cat.:** 174

Impact source: SCOPUS **Category:** Civil and Structural Engineering
Impact index in year of publication: 2.835 **Journal in the top 25%:** Yes
Position of publication: 2 **No. of journals in the cat.:** 263

Impact source: SCOPUS **Category:** Energy (miscellaneous)
Impact index in year of publication: 2.835 **Journal in the top 25%:** Yes
Position of publication: 1 **No. of journals in the cat.:** 98

Impact source: SCOPUS **Category:** Energy Engineering and Power Technology
Impact index in year of publication: 2.835 **Journal in the top 25%:** Yes
Position of publication: 3 **No. of journals in the cat.:** 181

Impact source: SCOPUS **Category:** Fuel Technology
Impact index in year of publication: 2.835 **Journal in the top 25%:** Yes
Position of publication: 2 **No. of journals in the cat.:** 88

Impact source: SCOPUS **Category:** Management, Monitoring, Policy and Law
Impact index in year of publication: 2.835 **Journal in the top 25%:** Yes
Position of publication: 5 **No. of journals in the cat.:** 313

Impact source: SCOPUS **Category:** Mechanical Engineering
Impact index in year of publication: 2.835 **Journal in the top 25%:** Yes
Position of publication: 11 **No. of journals in the cat.:** 591

Impact source: SCOPUS **Category:** Nuclear Energy and Engineering
Impact index in year of publication: 2.835 **Journal in the top 25%:** Yes

Position of publication: 2 **No. of journals in the cat.:** 58

Source of citations: SCOPUS **Citations:** 127

Source of citations: WOS **Citations:** 114

79 Valverde, Jose Manuel; Medina, Santiago. Crystallographic transformation of limestone during calcination under CO<inf>2</inf>. PHYSICAL CHEMISTRY CHEMICAL PHYSICS. 17 - 34, pp. 21912 - 21926. ROYAL SOC CHEMISTRY, 2015. Available on-line at: <https://doi.org/10.1039/c5cp02715b>. ISSN 1463-9076, ISSN 1463-9084

DOI: 10.1039/c5cp02715b
PMID: 26235797
Código WOS: WOS:000359971300017
Código Scopus: 84939839569
Type of production: Scientific paper **Format:** Journal
Position of signature: 1
Total no. authors: 2 **Corresponding author:** Yes

Impact source: ISI **Category:** Science Edition - CHEMISTRY, PHYSICAL
Impact index in year of publication: 4.449 **Journal in the top 25%:** Yes
Position of publication: 32 **No. of journals in the cat.:** 144

Impact source: ISI **Category:** Science Edition - PHYSICS, ATOMIC, MOLECULAR & CHEMICAL
Impact index in year of publication: 4.449 **Journal in the top 25%:** Yes
Position of publication: 6 **No. of journals in the cat.:** 35

Impact source: SCOPUS **Category:** Physical and Theoretical Chemistry
Impact index in year of publication: 1.725 **Journal in the top 25%:** Yes
Position of publication: 20 **No. of journals in the cat.:** 159

Impact source: SCOPUS **Category:** Physics and Astronomy (miscellaneous)
Impact index in year of publication: 1.725 **Journal in the top 25%:** Yes
Position of publication: 24 **No. of journals in the cat.:** 263

Source of citations: SCOPUS **Citations:** 72

Source of citations: WOS **Citations:** 69

80 Valverde, Jose Manuel; Soria-Hoyo, Carlos. Vibration-induced dynamical weakening of pyroclastic flows: Insights from rotating drum experiments. JOURNAL OF GEOPHYSICAL RESEARCH-SOLID EARTH. 120 - 9, pp. 6182 - 6190. AMER GEOPHYSICAL UNION, 2015. Available on-line at: <https://doi.org/10.1002/2015JB012317>. ISSN 2169-9313, ISSN 2169-9356

DOI: 10.1002/2015JB012317
Handle: 11441/69892
Código WOS: WOS:000363420000013
Código Scopus: 85027939004
Type of production: Scientific paper **Format:** Journal
Position of signature: 1
Total no. authors: 2 **Corresponding author:** Yes

Impact source: SCOPUS **Category:** Earth and Planetary Sciences (miscellaneous)
Impact index in year of publication: 2.754 **Journal in the top 25%:** Yes
Position of publication: 10 **No. of journals in the cat.:** 295

Impact source: SCOPUS **Category:** Geochemistry and Petrology

Impact index in year of publication: 2.754
Position of publication: 8
Journal in the top 25%: Yes
No. of journals in the cat.: 123

Impact source: SCOPUS
Impact index in year of publication: 2.754
Position of publication: 5
Category: Geophysics
Journal in the top 25%: Yes
No. of journals in the cat.: 120

Impact source: SCOPUS
Impact index in year of publication: 2.754
Position of publication: 15
Category: Space and Planetary Science
Journal in the top 25%: Yes
No. of journals in the cat.: 89

Source of citations: SCOPUS
Citations: 11

Source of citations: WOS
Citations: 10

81 Valverde, Jose Manuel. Dynamical weakening by fluidization under oscillatory viscous flows. JOURNAL OF GEOPHYSICAL RESEARCH-SOLID EARTH. 120 - 11, pp. 7641 - 7654. AMER GEOPHYSICAL UNION, 2015. Available on-line at: <https://doi.org/10.1002/2015JB011972>. ISSN 2169-9313, ISSN 2169-9356

DOI: 10.1002/2015JB011972
Código WOS: WOS:000368437800021
Código Scopus: 84954452109
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 1
Corresponding author: Yes

Impact source: SCOPUS
Impact index in year of publication: 2.754
Position of publication: 10
Category: Earth and Planetary Sciences (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 295

Impact source: SCOPUS
Impact index in year of publication: 2.754
Position of publication: 8
Category: Geochemistry and Petrology
Journal in the top 25%: Yes
No. of journals in the cat.: 123

Impact source: SCOPUS
Impact index in year of publication: 2.754
Position of publication: 5
Category: Geophysics
Journal in the top 25%: Yes
No. of journals in the cat.: 120

Impact source: SCOPUS
Impact index in year of publication: 2.754
Position of publication: 15
Category: Space and Planetary Science
Journal in the top 25%: Yes
No. of journals in the cat.: 89

Source of citations: SCOPUS
Citations: 2

Source of citations: WOS
Citations: 1

82 Valverde, Jose ManuelOn the negative activation energy for limestone calcination at high temperatures nearby equilibrium. CHEMICAL ENGINEERING SCIENCE. 132, pp. 185 - 193. PERGAMON-ELSEVIER SCIENCE LTD, 2015. Available on-line at: <https://doi.org/10.1016/j.ces.2015.04.027>. ISSN 0009-2509, ISSN 1873-4405

DOI: 10.1016/j.ces.2015.04.027
Código WOS: WOS:000355132500019
Código Scopus: 84928985388
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 1
Corresponding author: Yes

Impact source: ISI
Category: Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 2.750
Journal in the top 25%: Yes
Position of publication: 27
No. of journals in the cat.: 135

Impact source: SCOPUS
Category: Applied Mathematics
Impact index in year of publication: 1.022
Journal in the top 25%: No
Position of publication: 118
No. of journals in the cat.: 463

Impact source: SCOPUS
Category: Chemical Engineering (miscellaneous)
Impact index in year of publication: 1.022
Journal in the top 25%: Yes
Position of publication: 36
No. of journals in the cat.: 323

Impact source: SCOPUS
Category: Chemistry (miscellaneous)
Impact index in year of publication: 1.022
Journal in the top 25%: Yes
Position of publication: 67
No. of journals in the cat.: 437

Impact source: SCOPUS
Category: Industrial and Manufacturing Engineering
Impact index in year of publication: 1.022
Journal in the top 25%: Yes
Position of publication: 37
No. of journals in the cat.: 353

Source of citations: SCOPUS
Citations: 47

Source of citations: WOS
Citations: 44

83 Valverde, J. M.; Sanchez-Jimenez, P. E.; Perez-Maqueda, L. A.. High and stable CO2 capture capacity of natural limestone at Ca-looping conditions by heat pretreatment and recarbonation synergy. FUEL. 123, pp. 79 - 85. ELSEVIER SCI LTD, 2014. Available on-line at: <https://doi.org/10.1016/j.fuel.2014.01.045>. ISSN 0016-2361, ISSN 1873-7153
DOI: 10.1016/j.fuel.2014.01.045
Handle: 11441/74181
Código WOS: WOS:000332403000011
Código Scopus: 84893845205
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 3
Corresponding author: Yes

Impact source: ISI
Category: Science Edition - ENERGY & FUELS
Impact index in year of publication: 3.520
Journal in the top 25%: Yes
Position of publication: 19
No. of journals in the cat.: 89

Impact source: ISI
Category: Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 3.520
Journal in the top 25%: Yes
Position of publication: 13
No. of journals in the cat.: 135

Impact source: SCOPUS
Category: Chemical Engineering (miscellaneous)
Impact index in year of publication: 1.634
Journal in the top 25%: Yes
Position of publication: 13
No. of journals in the cat.: 324

Impact source: SCOPUS
Category: Energy Engineering and Power Technology
Impact index in year of publication: 1.634
Journal in the top 25%: Yes
Position of publication: 6
No. of journals in the cat.: 201

Impact source: SCOPUS
Category: Fuel Technology
Impact index in year of publication: 1.634
Journal in the top 25%: Yes

Position of publication: 3
No. of journals in the cat.: 103

Impact source: SCOPUS
Category: Organic Chemistry
Impact index in year of publication: 1.634
Journal in the top 25%: Yes
Position of publication: 18
No. of journals in the cat.: 178

Source of citations: SCOPUS
Citations: 62

Source of citations: WOS
Citations: 59

84 Valverde, J. M.; Sanchez-Jimenez, P. E.; Perez-Maqueda, L. A.. Effect of heat pretreatment/recarbonation in the Ca-looping process at realistic calcination conditions. ENERGY & FUELS. 28 - 6, pp. 4062 - 4067. AMER CHEMICAL SOC, 2014. Available on-line at: <https://doi.org/10.1021/ef5007325>. ISSN 0887-0624, ISSN 1520-5029
DOI: 10.1021/ef5007325
Handle: 11441/134527
Código WOS: WOS:000337783800055
Código Scopus: 84903129521
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 3
Corresponding author: Yes

Impact source: ISI
Category: Science Edition - ENERGY & FUELS
Impact index in year of publication: 2.790
Journal in the top 25%: No
Position of publication: 32
No. of journals in the cat.: 89

Impact source: ISI
Category: Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 2.790
Journal in the top 25%: Yes
Position of publication: 21
No. of journals in the cat.: 135

Impact source: SCOPUS
Category: Chemical Engineering (miscellaneous)
Impact index in year of publication: 1.374
Journal in the top 25%: Yes
Position of publication: 21
No. of journals in the cat.: 309

Impact source: SCOPUS
Category: Chemical Engineering (miscellaneous)
Impact index in year of publication: 1.374
Journal in the top 25%: Yes
Position of publication: 21
No. of journals in the cat.: 324

Impact source: SCOPUS
Category: Energy Engineering and Power Technology
Impact index in year of publication: 1.374
Journal in the top 25%: Yes
Position of publication: 12
No. of journals in the cat.: 201

Impact source: SCOPUS
Category: Energy Engineering and Power Technology
Impact index in year of publication: 1.374
Journal in the top 25%: Yes
Position of publication: 13
No. of journals in the cat.: 183

Impact source: SCOPUS
Category: Fuel Technology
Impact index in year of publication: 1.374
Journal in the top 25%: Yes
Position of publication: 8
No. of journals in the cat.: 103

Impact source: SCOPUS
Category: Fuel Technology
Impact index in year of publication: 1.374
Journal in the top 25%: Yes
Position of publication: 9
No. of journals in the cat.: 93

Source of citations: SCOPUS
Citations: 32

Source of citations: WOS
Citations: 32

85 Sanchez-Jimenez, Pedro E.; Valverde, Jose M.; Perez-Maqueda, Luis A.. Multicyclic conversion of limestone at Ca-looping conditions: The role of solid-sate diffusion controlled carbonation. FUEL. 127, pp. 131 - 140. ELSEVIER SCI LTD, 2014. Available on-line at: <https://doi.org/10.1016/j.fuel.2013.09.064>. ISSN 0016-2361, ISSN 1873-7153

DOI: 10.1016/j.fuel.2013.09.064
Handle: 11441/74157
Código WOS: WOS:000333979300017
Código Scopus: 84897521080
Type of production: Scientific paper
Format: Journal
Position of signature: 2
Total no. authors: 3
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - ENERGY & FUELS
Impact index in year of publication: 3.520
Journal in the top 25%: Yes
Position of publication: 19
No. of journals in the cat.: 89

Impact source: ISI
Category: Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 3.520
Journal in the top 25%: Yes
Position of publication: 13
No. of journals in the cat.: 135

Impact source: SCOPUS
Category: Chemical Engineering (miscellaneous)
Impact index in year of publication: 1.634
Journal in the top 25%: Yes
Position of publication: 13
No. of journals in the cat.: 324

Impact source: SCOPUS
Category: Energy Engineering and Power Technology
Impact index in year of publication: 1.634
Journal in the top 25%: Yes
Position of publication: 6
No. of journals in the cat.: 201

Impact source: SCOPUS
Category: Fuel Technology
Impact index in year of publication: 1.634
Journal in the top 25%: Yes
Position of publication: 3
No. of journals in the cat.: 103

Impact source: SCOPUS
Category: Organic Chemistry
Impact index in year of publication: 1.634
Journal in the top 25%: Yes
Position of publication: 18
No. of journals in the cat.: 178

Source of citations: SCOPUS
Citations: 39

Source of citations: WOS
Citations: 37

86 Valverde, J. M.; Sanchez-Jimenez, P. E.; Perez-Maqueda, L. A.. Calcium-looping for post-combustion CO2 capture. On the adverse effect of sorbent regeneration under CO2. APPLIED ENERGY. 126, pp. 161 - 171. ELSEVIER SCI LTD; Elsevier BV, 2014. Available on-line at: <https://doi.org/10.1016/j.apenergy.2014.03.081>. ISSN 0306-2619, ISSN 1872-9118

DOI: 10.1016/j.apenergy.2014.03.081
Handle: 11441/74160
Código WOS: WOS:000337651100017
Código Scopus: 84899555575
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 3
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - ENERGY & FUELS
Impact index in year of publication: 5.613
Journal in the top 25%: Yes

Position of publication: 9 — **No. of journals in the cat.:** 89

Impact source: ISI — **Category:** Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 5.613 — **Journal in the top 25%:** Yes
Position of publication: 6 — **No. of journals in the cat.:** 135

Impact source: SCOPUS — **Category:** Building and Construction
Impact index in year of publication: 3.158 — **Journal in the top 25%:** Yes
Position of publication: 2 — **No. of journals in the cat.:** 164

Impact source: SCOPUS — **Category:** Civil and Structural Engineering
Impact index in year of publication: 3.158 — **Journal in the top 25%:** Yes
Position of publication: 1 — **No. of journals in the cat.:** 254

Impact source: SCOPUS — **Category:** Energy (miscellaneous)
Impact index in year of publication: 3.158 — **Journal in the top 25%:** Yes
Position of publication: 1 — **No. of journals in the cat.:** 98

Impact source: SCOPUS — **Category:** Energy Engineering and Power Technology
Impact index in year of publication: 3.158 — **Journal in the top 25%:** Yes
Position of publication: 2 — **No. of journals in the cat.:** 183

Impact source: SCOPUS — **Category:** Fuel Technology
Impact index in year of publication: 3.158 — **Journal in the top 25%:** Yes
Position of publication: 2 — **No. of journals in the cat.:** 93

Impact source: SCOPUS — **Category:** Management, Monitoring, Policy and Law
Impact index in year of publication: 3.158 — **Journal in the top 25%:** Yes
Position of publication: 4 — **No. of journals in the cat.:** 303

Impact source: SCOPUS — **Category:** Mechanical Engineering
Impact index in year of publication: 3.158 — **Journal in the top 25%:** Yes
Position of publication: 11 — **No. of journals in the cat.:** 586

Impact source: SCOPUS — **Category:** Nuclear Energy and Engineering
Impact index in year of publication: 3.158 — **Journal in the top 25%:** Yes
Position of publication: 2 — **No. of journals in the cat.:** 57

Source of citations: SCOPUS — **Citations:** 90

Source of citations: WOS — **Citations:** 86

87 Valverde, J. M.; Sanchez-Jimenez, P. E.; Perez-Maqueda, L. A.; Quintanilla, M. A.S.; Perez-Vaquero, J.. Role of crystal structure on <inf>CO2</inf> capture by limestone derived CaO subjected to carbonation/recarbonation/calcination cycles at Ca-looping conditions. APPLIED ENERGY. 125, pp. 264 - 275. ELSEVIER SCI LTD; Elsevier BV, 2014. Available on-line at: <https://doi.org/10.1016/j.apenergy.2014.03.065>. ISSN 0306-2619, ISSN 1872-9118
DOI: 10.1016/j.apenergy.2014.03.065
Handle: 11441/74148
Código WOS: WOS:000336778900027
Código Scopus: 84898823671
Type of production: Scientific paper — **Format:** Journal
Position of signature: 1
Total no. authors: 5 — **Corresponding author:** Yes

Impact source: ISI
Impact index in year of publication: 5.613
Position of publication: 9
Category: Science Edition - ENERGY & FUELS
Journal in the top 25%: Yes
No. of journals in the cat.: 89

Impact source: ISI
Impact index in year of publication: 5.613
Position of publication: 6
Category: Science Edition - ENGINEERING, CHEMICAL
Journal in the top 25%: Yes
No. of journals in the cat.: 135

Impact source: SCOPUS
Impact index in year of publication: 3.158
Position of publication: 2
Category: Building and Construction
Journal in the top 25%: Yes
No. of journals in the cat.: 164

Impact source: SCOPUS
Impact index in year of publication: 3.158
Position of publication: 1
Category: Civil and Structural Engineering
Journal in the top 25%: Yes
No. of journals in the cat.: 254

Impact source: SCOPUS
Impact index in year of publication: 3.158
Position of publication: 1
Category: Energy (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 98

Impact source: SCOPUS
Impact index in year of publication: 3.158
Position of publication: 2
Category: Energy Engineering and Power Technology
Journal in the top 25%: Yes
No. of journals in the cat.: 183

Impact source: SCOPUS
Impact index in year of publication: 3.158
Position of publication: 2
Category: Fuel Technology
Journal in the top 25%: Yes
No. of journals in the cat.: 93

Impact source: SCOPUS
Impact index in year of publication: 3.158
Position of publication: 4
Category: Management, Monitoring, Policy and Law
Journal in the top 25%: Yes
No. of journals in the cat.: 303

Impact source: SCOPUS
Impact index in year of publication: 3.158
Position of publication: 11
Category: Mechanical Engineering
Journal in the top 25%: Yes
No. of journals in the cat.: 586

Impact source: SCOPUS
Impact index in year of publication: 3.158
Position of publication: 2
Category: Nuclear Energy and Engineering
Journal in the top 25%: Yes
No. of journals in the cat.: 57

Source of citations: SCOPUS
Citations: 51

Source of citations: WOS
Citations: 48

88 Valverde, J. M.; Sanchez-Jimenez, P. E.; Perez-Maqueda, L. A.. Relevant influence of limestone crystallinity on CO<inf>2</inf> capture in the Ca-looping technology at realistic calcination conditions. ENVIRONMENTAL SCIENCE & TECHNOLOGY. 48 - 16, pp. 9882 - 9889. AMER CHEMICAL SOC, 2014. Available on-line at: <https://doi.org/10.1021/es5014505>. ISSN 0013-936X, ISSN 1520-5851
DOI: 10.1021/es5014505
Handle: 11441/134526
PMID: 25029532
Código WOS: WOS:000340701800113
Código Scopus: 84906221767
Type of production: Scientific paper
Format: Journal

Position of signature: 1
Total no. authors: 3
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - ENGINEERING, ENVIRONMENTAL
Impact index in year of publication: 5.330
Journal in the top 25%: Yes
Position of publication: 3
No. of journals in the cat.: 47

Impact source: ISI
Category: Science Edition - ENVIRONMENTAL SCIENCES
Impact index in year of publication: 5.330
Journal in the top 25%: Yes
Position of publication: 10
No. of journals in the cat.: 223

Impact source: SCOPUS
Category: Chemistry (miscellaneous)
Impact index in year of publication: 2.777
Journal in the top 25%: Yes
Position of publication: 15
No. of journals in the cat.: 420

Impact source: SCOPUS
Category: Chemistry (miscellaneous)
Impact index in year of publication: 2.777
Journal in the top 25%: Yes
Position of publication: 15
No. of journals in the cat.: 436

Impact source: SCOPUS
Category: Environmental Chemistry
Impact index in year of publication: 2.777
Journal in the top 25%: Yes
Position of publication: 6
No. of journals in the cat.: 102

Impact source: SCOPUS
Category: Environmental Chemistry
Impact index in year of publication: 2.777
Journal in the top 25%: Yes
Position of publication: 6
No. of journals in the cat.: 97

Impact source: SCOPUS
Category: Medicine (miscellaneous)
Impact index in year of publication: 2.777
Journal in the top 25%: Yes
Position of publication: 88
No. of journals in the cat.: 2.836

Impact source: SCOPUS
Category: Medicine (miscellaneous)
Impact index in year of publication: 2.777
Journal in the top 25%: Yes
Position of publication: 88
No. of journals in the cat.: 2.859

Source of citations: SCOPUS
Citations: 48

Source of citations: WOS
Citations: 45

89 Sanchez-Jimenez, P. E.; Perez-Maqueda, L. A.; Valverde, J. M.. Nanosilica supported CaO: A regenerable and mechanically hard CO2 sorbent at Ca-looping conditions. APPLIED ENERGY. 118, pp. 92 - 99. ELSEVIER SCI LTD; Elsevier BV, 2014. Available on-line at: <https://doi.org/10.1016/j.apenergy.2013.12.024>. ISSN 0306-2619, ISSN 1872-9118
DOI: 10.1016/j.apenergy.2013.12.024
Handle: 11441/74165
Código WOS: WOS:000332435000010
Código Scopus: 84891783884
Type of production: Scientific paper
Format: Journal
Position of signature: 3
Total no. authors: 3
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - ENERGY & FUELS
Impact index in year of publication: 5.613
Journal in the top 25%: Yes
Position of publication: 9
No. of journals in the cat.: 89

Impact source: ISI
Category: Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 5.613
Journal in the top 25%: Yes
Position of publication: 6
No. of journals in the cat.: 135

Impact source: SCOPUS
Category: Building and Construction
Impact index in year of publication: 3.158
Journal in the top 25%: Yes
Position of publication: 2
No. of journals in the cat.: 164

Impact source: SCOPUS
Category: Civil and Structural Engineering
Impact index in year of publication: 3.158
Journal in the top 25%: Yes
Position of publication: 1
No. of journals in the cat.: 254

Impact source: SCOPUS
Category: Energy (miscellaneous)
Impact index in year of publication: 3.158
Journal in the top 25%: Yes
Position of publication: 1
No. of journals in the cat.: 98

Impact source: SCOPUS
Category: Energy Engineering and Power Technology
Impact index in year of publication: 3.158
Journal in the top 25%: Yes
Position of publication: 2
No. of journals in the cat.: 183

Impact source: SCOPUS
Category: Fuel Technology
Impact index in year of publication: 3.158
Journal in the top 25%: Yes
Position of publication: 2
No. of journals in the cat.: 93

Impact source: SCOPUS
Category: Management, Monitoring, Policy and Law
Impact index in year of publication: 3.158
Journal in the top 25%: Yes
Position of publication: 4
No. of journals in the cat.: 303

Impact source: SCOPUS
Category: Mechanical Engineering
Impact index in year of publication: 3.158
Journal in the top 25%: Yes
Position of publication: 11
No. of journals in the cat.: 586

Impact source: SCOPUS
Category: Nuclear Energy and Engineering
Impact index in year of publication: 3.158
Journal in the top 25%: Yes
Position of publication: 2
No. of journals in the cat.: 57

Source of citations: SCOPUS
Citations: 84

Source of citations: WOS
Citations: 80

90 Sánchez Quintanilla, Miguel Ángel; Espin, Manuel Jesús; Valverde, José Manuel. Effect of magnetic field orientation on fluidized beds of magnetic particles: Theory and experiment. PARTICUOLOGY. 12, pp. 54 - 63. ELSEVIER SCIENCE INC, 2014. Available on-line at: <https://doi.org/10.1016/j.partic.2013.03.002>. ISSN 1674-2001, ISSN 2210-4291

DOI: 10.1016/j.partic.2013.03.002
Código WOS: WOS:000334084200008
Código Scopus: 84896545309
Type of production: Scientific paper
Format: Journal
Position of signature: 3
Total no. authors: 3

Impact source: ISI
Category: Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 2.110
Journal in the top 25%: No
Position of publication: 47
No. of journals in the cat.: 135

Impact source: ISI
Impact index in year of publication: 2.110
Position of publication: 82
Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
Journal in the top 25%: No
No. of journals in the cat.: 260

Impact source: SCOPUS
Impact index in year of publication: 0.710
Position of publication: 69
Category: Chemical Engineering (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 324

Impact source: SCOPUS
Impact index in year of publication: 0.710
Position of publication: 133
Category: Condensed Matter Physics
Journal in the top 25%: No
No. of journals in the cat.: 411

Impact source: SCOPUS
Impact index in year of publication: 0.710
Position of publication: 137
Category: Materials Science (miscellaneous)
Journal in the top 25%: No
No. of journals in the cat.: 549

Source of citations: SCOPUS
Citations: 16

Source of citations: WOS
Citations: 14

91 Valverde, J. M.; Sanchez-Jimenez, P. E.; Perez-Maqueda, L. A.. Role of precalcination and regeneration conditions on postcombustion CO<inf>2</inf> capture in the Ca-looping technology. APPLIED ENERGY. 136, pp. 347 - 356. ELSEVIER SCI LTD; Elsevier BV, 2014. Available on-line at: <https://doi.org/10.1016/j.apenergy.2014.09.052>. ISSN 0306-2619, ISSN 1872-9118
DOI: 10.1016/j.apenergy.2014.09.052
Handle: 11441/73039
Código WOS: WOS:000345725800034
Código Scopus: 84907696959
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 3
Corresponding author: Yes

Impact source: ISI
Impact index in year of publication: 5.613
Position of publication: 9
Category: Science Edition - ENERGY & FUELS
Journal in the top 25%: Yes
No. of journals in the cat.: 89

Impact source: ISI
Impact index in year of publication: 5.613
Position of publication: 6
Category: Science Edition - ENGINEERING, CHEMICAL
Journal in the top 25%: Yes
No. of journals in the cat.: 135

Impact source: SCOPUS
Impact index in year of publication: 3.158
Position of publication: 2
Category: Building and Construction
Journal in the top 25%: Yes
No. of journals in the cat.: 164

Impact source: SCOPUS
Impact index in year of publication: 3.158
Position of publication: 1
Category: Civil and Structural Engineering
Journal in the top 25%: Yes
No. of journals in the cat.: 254

Impact source: SCOPUS
Impact index in year of publication: 3.158
Position of publication: 1
Category: Energy (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 98

Impact source: SCOPUS
Category: Energy Engineering and Power Technology

Impact index in year of publication: 3.158
Position of publication: 2
Journal in the top 25%: Yes
No. of journals in the cat.: 183

Impact source: SCOPUS
Impact index in year of publication: 3.158
Position of publication: 2
Category: Fuel Technology
Journal in the top 25%: Yes
No. of journals in the cat.: 93

Impact source: SCOPUS
Impact index in year of publication: 3.158
Position of publication: 4
Category: Management, Monitoring, Policy and Law
Journal in the top 25%: Yes
No. of journals in the cat.: 303

Impact source: SCOPUS
Impact index in year of publication: 3.158
Position of publication: 11
Category: Mechanical Engineering
Journal in the top 25%: Yes
No. of journals in the cat.: 586

Impact source: SCOPUS
Impact index in year of publication: 3.158
Position of publication: 2
Category: Nuclear Energy and Engineering
Journal in the top 25%: Yes
No. of journals in the cat.: 57

Source of citations: SCOPUS
Citations: 54

Source of citations: WOS
Citations: 51

92 Valverde, Jose Manuel; Quintanilla, Miguel Angel Sanchez. Attrition of Ca-based CO<inf>2</inf>-adsorbents by a high velocity gas jet. AICHE JOURNAL. 59 - 4, pp. 1096 - 1107. WILEY, 2013. Available on-line at: <https://doi.org/10.1002/aic.13908>. ISSN 0001-1541, ISSN 1547-5905
DOI: 10.1002/aic.13908
Código WOS: WOS:000317466000009
Código Scopus: 84875365189
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 2
Corresponding author: Yes

Impact source: ISI
Category: Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 2.581
Position of publication: 25
Journal in the top 25%: Yes
No. of journals in the cat.: 133

Impact source: SCOPUS
Impact index in year of publication: 1.053
Position of publication: 61
Category: Biotechnology
Journal in the top 25%: Yes
No. of journals in the cat.: 261

Impact source: SCOPUS
Impact index in year of publication: 1.053
Position of publication: 34
Category: Chemical Engineering (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 321

Impact source: SCOPUS
Impact index in year of publication: 1.053
Position of publication: 19
Category: Environmental Engineering
Journal in the top 25%: Yes
No. of journals in the cat.: 114

Source of citations: SCOPUS
Citations: 37

Source of citations: WOS
Citations: 35

93 Valverde, Jose M.; Sanchez-Jimenez, Pedro E.; Perejon, Antonio; Perez-Maqueda, Luis A.. Constant rate thermal analysis for enhancing the long-term CO2 capture of CaO at Ca-looping conditions. APPLIED ENERGY. 108, pp. 108 - 120. ELSEVIER SCI LTD; Elsevier BV, 2013. Available on-line at: <https://doi.org/10.1016/j.apenergy.2013.03.013>. ISSN 0306-2619, ISSN 1872-9118

DOI: 10.1016/j.apenergy.2013.03.013
Handle: 11441/74156
Código WOS: WOS:000320484900012
Código Scopus: 84875778145
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 4
Corresponding author: Yes

Impact source: ISI
Category: Science Edition - ENERGY & FUELS
Impact index in year of publication: 5.261
Journal in the top 25%: Yes
Position of publication: 7
No. of journals in the cat.: 83

Impact source: ISI
Category: Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 5.261
Journal in the top 25%: Yes
Position of publication: 6
No. of journals in the cat.: 133

Impact source: SCOPUS
Category: Building and Construction
Impact index in year of publication: 3.060
Journal in the top 25%: Yes
Position of publication: 2
No. of journals in the cat.: 161

Impact source: SCOPUS
Category: Civil and Structural Engineering
Impact index in year of publication: 3.060
Journal in the top 25%: Yes
Position of publication: 2
No. of journals in the cat.: 245

Impact source: SCOPUS
Category: Energy (miscellaneous)
Impact index in year of publication: 3.060
Journal in the top 25%: Yes
Position of publication: 1
No. of journals in the cat.: 98

Impact source: SCOPUS
Category: Energy Engineering and Power Technology
Impact index in year of publication: 3.060
Journal in the top 25%: Yes
Position of publication: 2
No. of journals in the cat.: 178

Impact source: SCOPUS
Category: Fuel Technology
Impact index in year of publication: 3.060
Journal in the top 25%: Yes
Position of publication: 2
No. of journals in the cat.: 95

Impact source: SCOPUS
Category: Management, Monitoring, Policy and Law
Impact index in year of publication: 3.060
Journal in the top 25%: Yes
Position of publication: 5
No. of journals in the cat.: 289

Impact source: SCOPUS
Category: Mechanical Engineering
Impact index in year of publication: 3.060
Journal in the top 25%: Yes
Position of publication: 9
No. of journals in the cat.: 579

Impact source: SCOPUS
Category: Nuclear Energy and Engineering
Impact index in year of publication: 3.060
Journal in the top 25%: Yes
Position of publication: 2
No. of journals in the cat.: 55

Source of citations: SCOPUS
Citations: 61

Source of citations: WOS
Citations: 60

94 Espin, M. J.; Valverde, J. M.; Quintanilla, M. A.S.. Stabilization of fluidized beds of particles magnetized by an external field: effects of particle size and field orientation. JOURNAL OF FLUID MECHANICS. 732, pp. 282 - 303. CAMBRIDGE UNIV PRESS, 2013. Available on-line at: <https://doi.org/10.1017/jfm.2013.403>. ISSN 0022-1120, ISSN 1469-7645

DOI: 10.1017/jfm.2013.403
Código WOS: WOS:000324779300016
Código Scopus: 84929216618
Type of production: Scientific paper
Format: Journal
Position of signature: 2
Total no. authors: 3
Corresponding author: Yes

Impact source: ISI
Category: Science Edition - MECHANICS
Impact index in year of publication: 2.294
Journal in the top 25%: Yes
Position of publication: 12
No. of journals in the cat.: 139

Impact source: ISI
Category: Science Edition - PHYSICS, FLUIDS & PLASMAS
Impact index in year of publication: 2.294
Journal in the top 25%: No
Position of publication: 10
No. of journals in the cat.: 31

Impact source: SCOPUS
Category: Condensed Matter Physics
Impact index in year of publication: 1.853
Journal in the top 25%: Yes
Position of publication: 23
No. of journals in the cat.: 408

Impact source: SCOPUS
Category: Mechanical Engineering
Impact index in year of publication: 1.853
Journal in the top 25%: Yes
Position of publication: 25
No. of journals in the cat.: 579

Impact source: SCOPUS
Category: Mechanics of Materials
Impact index in year of publication: 1.853
Journal in the top 25%: Yes
Position of publication: 16
No. of journals in the cat.: 340

Source of citations: SCOPUS
Citations: 18

Source of citations: WOS
Citations: 16

95 Valverde, Jose ManuelA model on the CaO multicyclic conversion in the Ca-looping process. CHEMICAL ENGINEERING JOURNAL. 228, pp. 1195 - 1206. Elsevier Science; ELSEVIER SCIENCE SA, 2013. Available on-line at: <https://doi.org/10.1016/j.cej.2013.05.023>. ISSN 1385-8947, ISSN 1873-3212

DOI: 10.1016/j.cej.2013.05.023
Código WOS: WOS:000326203500128
Código Scopus: 84880044576
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 1
Corresponding author: Yes

Impact source: ISI
Category: Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 4.058
Journal in the top 25%: Yes
Position of publication: 8
No. of journals in the cat.: 133

Impact source: ISI
Category: Science Edition - ENGINEERING, ENVIRONMENTAL
Impact index in year of publication: 4.058
Journal in the top 25%: Yes
Position of publication: 7
No. of journals in the cat.: 46

Impact source: SCOPUS
Impact index in year of publication: 1.597
Position of publication: 17
Category: Chemical Engineering (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 321

Impact source: SCOPUS
Impact index in year of publication: 1.597
Position of publication: 37
Category: Chemistry (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 438

Impact source: SCOPUS
Impact index in year of publication: 1.597
Position of publication: 19
Category: Environmental Chemistry
Journal in the top 25%: Yes
No. of journals in the cat.: 101

Impact source: SCOPUS
Impact index in year of publication: 1.597
Position of publication: 16
Category: Industrial and Manufacturing Engineering
Journal in the top 25%: Yes
No. of journals in the cat.: 344

Source of citations: SCOPUS
Citations: 69

Source of citations: WOS
Citations: 65

96 Perez-Vaquero, J.; Valverde, J. M.; Quintanilla, M. A.S.. Flow properties of CO<inf>2</inf> sorbent powders modified with nanosilica. POWDER TECHNOLOGY. 249, pp. 443 - 455. ELSEVIER SCIENCE BV; ELSEVIER, 2013. Available on-line at: <https://doi.org/10.1016/j.powtec.2013.09.002>. ISSN 0032-5910, ISSN 1873-328X
DOI: 10.1016/j.powtec.2013.09.002
Código WOS: WOS:000328659400061
Código Scopus: 84885057528
Type of production: Scientific paper
Format: Journal
Position of signature: 2
Total no. authors: 3
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 2.269
Position of publication: 34
Journal in the top 25%: No
No. of journals in the cat.: 133

Impact source: SCOPUS
Impact index in year of publication: 0.889
Position of publication: 54
Category: Chemical Engineering (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 321

Source of citations: SCOPUS
Citations: 13

Source of citations: WOS
Citations: 13

97 Valverde, Jose M.; Sanchez-Jimenez, Pedro E.; Perejon, Antonio; Perez-Maqueda, Luis A.. Role of Looping-Calcination Conditions on Self-Reactivation of Thermally Pretreated CO2 Sorbents Based on CaO. ENERGY & FUELS. 27 - 6, pp. 3373 - 3384. AMER CHEMICAL SOC, 2013. Available on-line at: <https://doi.org/10.1021/ef400480j>. ISSN 0887-0624, ISSN 1520-5029
DOI: 10.1021/ef400480j
Handle: 11441/134616
Código WOS: WOS:000320911200054
Código Scopus: 84879347461
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 4
Corresponding author: Yes

Impact source: ISI
Impact index in year of publication: 2.733
Position of publication: 32
Category: Science Edition - ENERGY & FUELS
Journal in the top 25%: No
No. of journals in the cat.: 83

Impact source: ISI
Impact index in year of publication: 2.733
Position of publication: 21
Category: Science Edition - ENGINEERING, CHEMICAL
Journal in the top 25%: Yes
No. of journals in the cat.: 133

Impact source: SCOPUS
Impact index in year of publication: 1.575
Position of publication: 19
Category: Chemical Engineering (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 308

Impact source: SCOPUS
Impact index in year of publication: 1.575
Position of publication: 19
Category: Chemical Engineering (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 321

Impact source: SCOPUS
Impact index in year of publication: 1.575
Position of publication: 11
Category: Energy Engineering and Power Technology
Journal in the top 25%: Yes
No. of journals in the cat.: 194

Impact source: SCOPUS
Impact index in year of publication: 1.575
Position of publication: 12
Category: Energy Engineering and Power Technology
Journal in the top 25%: Yes
No. of journals in the cat.: 178

Impact source: SCOPUS
Impact index in year of publication: 1.575
Position of publication: 7
Category: Fuel Technology
Journal in the top 25%: Yes
No. of journals in the cat.: 101

Impact source: SCOPUS
Impact index in year of publication: 1.575
Position of publication: 8
Category: Fuel Technology
Journal in the top 25%: Yes
No. of journals in the cat.: 95

Source of citations: SCOPUS
Citations: 30

Source of citations: WOS
Citations: 29

98 Pontiga, F.; Valverde, J. M.; Moreno, H.; Duran-Olivencia, F. J.. Dry gas-solid carbonation in fluidized beds of Ca(OH)(2) and nanosilica/Ca(OH)(2) at ambient temperature and low CO2 pressure. CHEMICAL ENGINEERING JOURNAL. 222, pp. 546 - 552. Elsevier Science; ELSEVIER SCIENCE SA, 2013. Available on-line at: <https://doi.org/10.1016/j.cej.2013.02.067>. ISSN 1385-8947, ISSN 1873-3212

DOI: 10.1016/j.cej.2013.02.067
Código WOS: WOS:000319528900061
Código Scopus: 84876377205
Type of production: Scientific paper
Format: Journal
Position of signature: 2
Total no. authors: 4
Corresponding author: Yes

Impact source: ISI
Impact index in year of publication: 4.058
Position of publication: 8
Category: Science Edition - ENGINEERING, CHEMICAL
Journal in the top 25%: Yes
No. of journals in the cat.: 133

Impact source: ISI
Impact index in year of publication: 4.058
Category: Science Edition - ENGINEERING, ENVIRONMENTAL
Journal in the top 25%: Yes

Position of publication: 7 — **No. of journals in the cat.:** 46

Impact source: SCOPUS — **Category:** Chemical Engineering (miscellaneous)
Impact index in year of publication: 1.597 — **Journal in the top 25%:** Yes
Position of publication: 17 — **No. of journals in the cat.:** 321

Impact source: SCOPUS — **Category:** Chemistry (miscellaneous)
Impact index in year of publication: 1.597 — **Journal in the top 25%:** Yes
Position of publication: 37 — **No. of journals in the cat.:** 438

Impact source: SCOPUS — **Category:** Environmental Chemistry
Impact index in year of publication: 1.597 — **Journal in the top 25%:** Yes
Position of publication: 19 — **No. of journals in the cat.:** 101

Impact source: SCOPUS — **Category:** Industrial and Manufacturing Engineering
Impact index in year of publication: 1.597 — **Journal in the top 25%:** Yes
Position of publication: 16 — **No. of journals in the cat.:** 344

Source of citations: SCOPUS — **Citations:** 25

Source of citations: WOS — **Citations:** 22

99 Valverde, J. M.; Ebri, J. M P; Quintanilla, M. A S. Acoustic streaming enhances the multicyclic CO2 capture of natural limestone at Ca-looping conditions. ENVIRONMENTAL SCIENCE & TECHNOLOGY. 47 - 16, pp. 9538 - 9544. AMER CHEMICAL SOC, 2013. Available on-line at: <https://doi.org/10.1021/es4019173>. ISSN 0013-936X, ISSN 1520-5851
DOI: 10.1021/es4019173
PMID: 23883159
Código WOS: WOS:000323471700066
Código Scopus: 84882601767
Type of production: Scientific paper — **Format:** Journal
Position of signature: 1
Total no. authors: 3 — **Corresponding author:** Yes

Impact source: ISI — **Category:** Science Edition - ENGINEERING, ENVIRONMENTAL
Impact index in year of publication: 5.481 — **Journal in the top 25%:** Yes
Position of publication: 2 — **No. of journals in the cat.:** 46

Impact source: ISI — **Category:** Science Edition - ENVIRONMENTAL SCIENCES
Impact index in year of publication: 5.481 — **Journal in the top 25%:** Yes
Position of publication: 8 — **No. of journals in the cat.:** 216

Impact source: SCOPUS — **Category:** Chemistry (miscellaneous)
Impact index in year of publication: 2.952 — **Journal in the top 25%:** Yes
Position of publication: 14 — **No. of journals in the cat.:** 418

Impact source: SCOPUS — **Category:** Chemistry (miscellaneous)
Impact index in year of publication: 2.952 — **Journal in the top 25%:** Yes
Position of publication: 14 — **No. of journals in the cat.:** 438

Impact source: SCOPUS — **Category:** Environmental Chemistry
Impact index in year of publication: 2.952 — **Journal in the top 25%:** Yes
Position of publication: 6 — **No. of journals in the cat.:** 101

Impact source: SCOPUS
Impact index in year of publication: 2.952
Position of publication: 6
Category: Environmental Chemistry
Journal in the top 25%: Yes
No. of journals in the cat.: 96

Impact source: SCOPUS
Impact index in year of publication: 2.952
Position of publication: 79
Category: Medicine (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 2.852

Impact source: SCOPUS
Impact index in year of publication: 2.952
Position of publication: 79
Category: Medicine (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 2.874

Source of citations: SCOPUS
Citations: 11

Source of citations: WOS
Citations: 10

100 Valverde, J. M.; Raganati, F.; Quintanilla, M. A.S.; Ebri, J. M.P.; Ammendola, P.; Chirone, R.. Enhancement of CO<inf>2</inf> capture at Ca-looping conditions by high-intensity acoustic fields. APPLIED ENERGY. 111, pp. 538 - 549. ELSEVIER SCI LTD; Elsevier BV, 2013. Available on-line at: <https://doi.org/10.1016/j.apenergy.2013.05.012>. ISSN 0306-2619, ISSN 1872-9118
DOI: 10.1016/j.apenergy.2013.05.012
Código WOS: WOS:000325834900050
Código Scopus: 84878996517
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 6
Corresponding author: Yes

Impact source: ISI
Impact index in year of publication: 5.261
Position of publication: 7
Category: Science Edition - ENERGY & FUELS
Journal in the top 25%: Yes
No. of journals in the cat.: 83

Impact source: ISI
Impact index in year of publication: 5.261
Position of publication: 6
Category: Science Edition - ENGINEERING, CHEMICAL
Journal in the top 25%: Yes
No. of journals in the cat.: 133

Impact source: SCOPUS
Impact index in year of publication: 3.060
Position of publication: 2
Category: Building and Construction
Journal in the top 25%: Yes
No. of journals in the cat.: 161

Impact source: SCOPUS
Impact index in year of publication: 3.060
Position of publication: 2
Category: Civil and Structural Engineering
Journal in the top 25%: Yes
No. of journals in the cat.: 245

Impact source: SCOPUS
Impact index in year of publication: 3.060
Position of publication: 1
Category: Energy (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 98

Impact source: SCOPUS
Impact index in year of publication: 3.060
Position of publication: 2
Category: Energy Engineering and Power Technology
Journal in the top 25%: Yes
No. of journals in the cat.: 178

Impact source: SCOPUS
Impact index in year of publication: 3.060
Position of publication: 2
Category: Fuel Technology
Journal in the top 25%: Yes
No. of journals in the cat.: 95

Impact source: SCOPUS
Impact index in year of publication: 3.060
Position of publication: 5
Category: Management, Monitoring, Policy and Law
Journal in the top 25%: Yes
No. of journals in the cat.: 289

Impact source: SCOPUS
Impact index in year of publication: 3.060
Position of publication: 9
Category: Mechanical Engineering
Journal in the top 25%: Yes
No. of journals in the cat.: 579

Impact source: SCOPUS
Impact index in year of publication: 3.060
Position of publication: 2
Category: Nuclear Energy and Engineering
Journal in the top 25%: Yes
No. of journals in the cat.: 55

Source of citations: SCOPUS
Citations: 57

Source of citations: WOS
Citations: 54

101 Valverde, Jose M.; Sanchez-Jimenez, Pedro E.; Perejon, Antonio; Perez-Maqueda, Luis A.. CO2 multicyclic capture of pretreated/doped CaO in the Ca-looping process. Theory and experiments. PHYSICAL CHEMISTRY CHEMICAL PHYSICS. 15 - 28, pp. 11775 - 11793. ROYAL SOC CHEMISTRY, 2013. Available on-line at: <https://doi.org/10.1039/c3cp50480h>. ISSN 1463-9076, ISSN 1463-9084
DOI: 10.1039/c3cp50480h
Handle: 11441/30512
Código WOS: WOS:000321201500023
Código Scopus: 84879876576
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 4
Corresponding author: Yes

Impact source: ISI
Impact index in year of publication: 4.198
Position of publication: 33
Category: Science Edition - CHEMISTRY, PHYSICAL
Journal in the top 25%: Yes
No. of journals in the cat.: 136

Impact source: ISI
Impact index in year of publication: 4.198
Position of publication: 5
Category: Science Edition - PHYSICS, ATOMIC, MOLECULAR & CHEMICAL
Journal in the top 25%: Yes
No. of journals in the cat.: 33

Impact source: SCOPUS
Impact index in year of publication: 1.720
Position of publication: 20
Category: Physical and Theoretical Chemistry
Journal in the top 25%: Yes
No. of journals in the cat.: 159

Impact source: SCOPUS
Impact index in year of publication: 1.720
Position of publication: 22
Category: Physics and Astronomy (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 257

Source of citations: SCOPUS
Citations: 45

Source of citations: WOS
Citations: 45

102 Espin, M. J.; Valverde, J. M.; Quintanilla, M. A.S.. The yield stress of jammed magnetofluidized beds. GRANULAR MATTER. 15 - 4, pp. 477 - 485. SPRINGER, 2013. Available on-line at: <https://doi.org/10.1007/s10035-012-0374-8>. ISSN 1434-5021, ISSN 1434-7636
DOI: 10.1007/s10035-012-0374-8
Código WOS: WOS:000323280500010
Código Scopus: 84882701652

Type of production: Scientific paper
Format: Journal
Position of signature: 2
Total no. authors: 3
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
Impact index in year of publication: 1.697
Journal in the top 25%: No
Position of publication: 95
No. of journals in the cat.: 251

Impact source: ISI
Category: Science Edition - MECHANICS
Impact index in year of publication: 1.697
Journal in the top 25%: No
Position of publication: 41
No. of journals in the cat.: 139

Impact source: ISI
Category: Science Edition - PHYSICS, APPLIED
Impact index in year of publication: 1.697
Journal in the top 25%: No
Position of publication: 51
No. of journals in the cat.: 136

Impact source: SCOPUS
Category: Materials Science (miscellaneous)
Impact index in year of publication: 1.057
Journal in the top 25%: Yes
Position of publication: 79
No. of journals in the cat.: 537

Impact source: SCOPUS
Category: Mechanics of Materials
Impact index in year of publication: 1.057
Journal in the top 25%: Yes
Position of publication: 54
No. of journals in the cat.: 340

Impact source: SCOPUS
Category: Physics and Astronomy (miscellaneous)
Impact index in year of publication: 1.057
Journal in the top 25%: Yes
Position of publication: 48
No. of journals in the cat.: 257

Source of citations: SCOPUS
Citations: 1

Source of citations: WOS
Citations: 1

103 Valverde, Jose Manuel. Ca-based synthetic materials with enhanced CO2 capture efficiency. JOURNAL OF MATERIALS CHEMISTRY A. 1 - 3, pp. 447 - 468. ROYAL SOC CHEMISTRY, 2013. Available on-line at: <https://doi.org/10.1039/C2TA00096B>. ISSN 2050-7488, ISSN 2050-7496
DOI: 10.1039/C2TA00096B
Código WOS: WOS:000314632100001
Código Scopus: 84875777077
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 1
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - CHEMISTRY, PHYSICAL
Impact index in year of publication: None
Journal in the top 25%: No
Position of publication: 135
No. of journals in the cat.: 136

Impact source: ISI
Category: Science Edition - ENERGY & FUELS
Impact index in year of publication: None
Journal in the top 25%: No
Position of publication: 82
No. of journals in the cat.: 83

Impact source: ISI
Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
Impact index in year of publication: None
Journal in the top 25%: No
Position of publication: 249
No. of journals in the cat.: 251

Source of citations: SCOPUS
Citations: 150

Source of citations: WOS **Citations:** 141

104 Valverde-Millán, Jose Manuel. Acoustic streaming in gas-fluidized beds of small particles. SOFT MATTER. 9 - 37, pp. 8792 - 8814. ROYAL SOC CHEMISTRY, 2013. Available on-line at: <https://doi.org/10.1039/c3sm50780g>. ISSN 1744-683X, ISSN 1744-6848

DOI: 10.1039/c3sm50780g
Código WOS: WOS:000323844600002
Código Scopus: 84883427092
Type of production: Scientific paper **Format:** Journal
Position of signature: 1
Total no. authors: 1 **Corresponding author:** Yes
Impact source: ISI **Category:** Science Edition - CHEMISTRY, PHYSICAL
Impact index in year of publication: 4.151 **Journal in the top 25%:** No
Position of publication: 35 **No. of journals in the cat.:** 136

Impact source: ISI **Category:** Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
Impact index in year of publication: 4.151 **Journal in the top 25%:** Yes
Position of publication: 33 **No. of journals in the cat.:** 251

Impact source: ISI **Category:** Science Edition - PHYSICS, MULTIDISCIPLINARY
Impact index in year of publication: 4.151 **Journal in the top 25%:** Yes
Position of publication: 9 **No. of journals in the cat.:** 78

Impact source: ISI **Category:** Science Edition - POLYMER SCIENCE
Impact index in year of publication: 4.151 **Journal in the top 25%:** Yes
Position of publication: 9 **No. of journals in the cat.:** 82

Impact source: SCOPUS **Category:** Chemistry (miscellaneous)
Impact index in year of publication: 1.748 **Journal in the top 25%:** Yes
Position of publication: 32 **No. of journals in the cat.:** 438

Impact source: SCOPUS **Category:** Condensed Matter Physics
Impact index in year of publication: 1.748 **Journal in the top 25%:** Yes
Position of publication: 25 **No. of journals in the cat.:** 408

Source of citations: SCOPUS **Citations:** 34

Source of citations: WOS **Citations:** 23

105 Quintanilla, M. A.S.; Valverde, J. M.. Use of silica nanopowder to accelerate CO2 sorption by Ca(OH)(2). PARTICUOLOGY. 11 - 4, pp. 448 - 453. ELSEVIER SCIENCE INC, 2013. Available on-line at: <https://doi.org/10.1016/j.partic.2012.06.015>. ISSN 1674-2001, ISSN 2210-4291

DOI: 10.1016/j.partic.2012.06.015
Código WOS: WOS:000321403900012
Código Scopus: 84879098473
Type of production: Scientific paper **Format:** Journal
Position of signature: 2
Total no. authors: 2 **Corresponding author:** Yes
Impact source: ISI **Category:** Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 1.648 **Journal in the top 25%:** No

Position of publication: 53
No. of journals in the cat.: 133

Impact source: ISI
Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
Impact index in year of publication: 1.648
Journal in the top 25%: No
Position of publication: 101
No. of journals in the cat.: 251

Impact source: SCOPUS
Category: Chemical Engineering (miscellaneous)
Impact index in year of publication: 0.608
Journal in the top 25%: No
Position of publication: 78
No. of journals in the cat.: 321

Impact source: SCOPUS
Category: Condensed Matter Physics
Impact index in year of publication: 0.608
Journal in the top 25%: No
Position of publication: 156
No. of journals in the cat.: 408

Impact source: SCOPUS
Category: Materials Science (miscellaneous)
Impact index in year of publication: 0.608
Journal in the top 25%: No
Position of publication: 150
No. of journals in the cat.: 537

Source of citations: SCOPUS
Citations: 10

Source of citations: WOS
Citations: 9

106 Valverde, J. M.; Duran, F. J.; Pontiga, F.; Moreno, H.. CO2 capture enhancement in a fluidized bed of a modified Geldart C powder. POWDER TECHNOLOGY. 224, pp. 247 - 252. ELSEVIER SCIENCE BV; ELSEVIER, 2012. Available on-line at: <https://doi.org/10.1016/j.powtec.2012.02.060>. ISSN 0032-5910, ISSN 1873-328X
DOI: 10.1016/j.powtec.2012.02.060
Código WOS: WOS:000304792000032
Código Scopus: 84860516086
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 4
Corresponding author: Yes

Impact source: ISI
Category: Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 2.024
Journal in the top 25%: No
Position of publication: 34
No. of journals in the cat.: 133

Impact source: SCOPUS
Category: Chemical Engineering (miscellaneous)
Impact index in year of publication: 0.844
Journal in the top 25%: Yes
Position of publication: 57
No. of journals in the cat.: 318

Source of citations: SCOPUS
Citations: 27

Source of citations: WOS
Citations: 27

107 Valverde Millán, José Manuel; Sánchez Quintanilla, Miguel Ángel; Espín Milla, Manuel Jesús. Effects of particle size and field orientation on the yield stress of magnetostabilized fluidized beds. INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH. 51 - 23, pp. 8134 - 8140. AMER CHEMICAL SOC, 2012. Available on-line at: <https://doi.org/10.1021/ie300075z>. ISSN 0888-5885, ISSN 1520-5045
DOI: 10.1021/ie300075z
Handle: 11441/149647
Código WOS: WOS:000305111700030
Código Scopus: 84862229059
Type of production: Scientific paper
Format: Journal
Position of signature: 1

Total no. authors: 3
Corresponding author: Yes

Impact source: ISI
Category: Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 2.206
Journal in the top 25%: Yes
Position of publication: 30
No. of journals in the cat.: 133

Impact source: SCOPUS
Category: Chemical Engineering (miscellaneous)
Impact index in year of publication: 1.054
Journal in the top 25%: Yes
Position of publication: 36
No. of journals in the cat.: 306

Impact source: SCOPUS
Category: Chemical Engineering (miscellaneous)
Impact index in year of publication: 1.054
Journal in the top 25%: Yes
Position of publication: 36
No. of journals in the cat.: 318

Impact source: SCOPUS
Category: Chemistry (miscellaneous)
Impact index in year of publication: 1.054
Journal in the top 25%: Yes
Position of publication: 69
No. of journals in the cat.: 417

Impact source: SCOPUS
Category: Chemistry (miscellaneous)
Impact index in year of publication: 1.054
Journal in the top 25%: Yes
Position of publication: 69
No. of journals in the cat.: 431

Impact source: SCOPUS
Category: Industrial and Manufacturing Engineering
Impact index in year of publication: 1.054
Journal in the top 25%: Yes
Position of publication: 32
No. of journals in the cat.: 318

Impact source: SCOPUS
Category: Industrial and Manufacturing Engineering
Impact index in year of publication: 1.054
Journal in the top 25%: Yes
Position of publication: 32
No. of journals in the cat.: 340

Source of citations: SCOPUS
Citations: 0

Source of citations: WOS
Citations: 0

108 Valverde, J. M.; Perejon, A.; Perez-Maqueda, L. A.. Enhancement of Fast CO2 Capture by a Nano-SiO2/CaO Composite at Ca-Looping Conditions. ENVIRONMENTAL SCIENCE & TECHNOLOGY. 46 - 11, pp. 6401 - 6408. AMER CHEMICAL SOC, 2012. Available on-line at: <https://doi.org/10.1021/es3002426>. ISSN 0013-936X, ISSN 1520-5851
DOI: 10.1021/es3002426
Handle: 11441/100060
PMID: 22551622
Código WOS: WOS:000304783000098
Código Scopus: 84861903829
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 3
Corresponding author: Yes

Impact source: ISI
Category: Science Edition - ENGINEERING, ENVIRONMENTAL
Impact index in year of publication: 5.257
Journal in the top 25%: Yes
Position of publication: 2
No. of journals in the cat.: 42

Impact source: ISI
Category: Science Edition - ENVIRONMENTAL SCIENCES
Impact index in year of publication: 5.257
Journal in the top 25%: Yes

Position of publication: 7 **No. of journals in the cat.:** 210

Impact source: SCOPUS **Category:** Chemistry (miscellaneous)
Impact index in year of publication: 3.115 **Journal in the top 25%:** Yes
Position of publication: 17 **No. of journals in the cat.:** 417

Impact source: SCOPUS **Category:** Chemistry (miscellaneous)
Impact index in year of publication: 3.115 **Journal in the top 25%:** Yes
Position of publication: 17 **No. of journals in the cat.:** 431

Impact source: SCOPUS **Category:** Environmental Chemistry
Impact index in year of publication: 3.115 **Journal in the top 25%:** Yes
Position of publication: 5 **No. of journals in the cat.:** 94

Impact source: SCOPUS **Category:** Environmental Chemistry
Impact index in year of publication: 3.115 **Journal in the top 25%:** Yes
Position of publication: 5 **No. of journals in the cat.:** 97

Impact source: SCOPUS **Category:** Medicine (miscellaneous)
Impact index in year of publication: 3.115 **Journal in the top 25%:** Yes
Position of publication: 69 **No. of journals in the cat.:** 2.833

Impact source: SCOPUS **Category:** Medicine (miscellaneous)
Impact index in year of publication: 3.115 **Journal in the top 25%:** Yes
Position of publication: 69 **No. of journals in the cat.:** 2.882

Source of citations: SCOPUS **Citations:** 133

Source of citations: WOS **Citations:** 127

109 Espin, M. J.; Valverde, Jose Manuel; Quintanilla, M. A.S.. Magneto-Stabilization of Fluidized Beds as due to Short Ranged Interparticle Forces. INTERNATIONAL JOURNAL OF CHEMICAL REACTOR ENGINEERING. 10 - 1, pp. Art24(1) - Art24(13). WALTER DE GRUYTER & CO, 2012. Available on-line at: <https://doi.org/10.1515/1542-6580.2988>. ISSN 1542-6580

DOI: 10.1515/1542-6580.2988
Código WOS: WOS:000305087500002
Código Scopus: 84872121768
Type of production: Scientific paper **Format:** Journal
Position of signature: 2
Total no. authors: 3

Impact source: ISI **Category:** Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 0.739 **Journal in the top 25%:** No
Position of publication: 87 **No. of journals in the cat.:** 133

Impact source: SCOPUS **Category:** Chemical Engineering (miscellaneous)
Impact index in year of publication: 0.407 **Journal in the top 25%:** No
Position of publication: 121 **No. of journals in the cat.:** 318

Source of citations: SCOPUS **Citations:** 0

Source of citations: WOS **Citations:** 0

110 Quintanilla, M. A.S.; Valverde, J. M.; Espin, M. J.; Castellanos, A.. Electrofluidization of Silica Nanoparticle Agglomerates. INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH. 51 - 1, pp. 531 - 538. AMER CHEMICAL SOC, 2012. Available on-line at: <https://doi.org/10.1021/ie200538v>. ISSN 0888-5885, ISSN 1520-5045

DOI: 10.1021/ie200538v
Código WOS: WOS:000298943200057
Código Scopus: 84855814043
Type of production: Scientific paper
Format: Journal
Position of signature: 2
Total no. authors: 4
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 2.206
Journal in the top 25%: Yes
Position of publication: 30
No. of journals in the cat.: 133

Impact source: SCOPUS
Category: Chemical Engineering (miscellaneous)
Impact index in year of publication: 1.054
Journal in the top 25%: Yes
Position of publication: 36
No. of journals in the cat.: 306

Impact source: SCOPUS
Category: Chemical Engineering (miscellaneous)
Impact index in year of publication: 1.054
Journal in the top 25%: Yes
Position of publication: 36
No. of journals in the cat.: 318

Impact source: SCOPUS
Category: Chemistry (miscellaneous)
Impact index in year of publication: 1.054
Journal in the top 25%: Yes
Position of publication: 69
No. of journals in the cat.: 417

Impact source: SCOPUS
Category: Chemistry (miscellaneous)
Impact index in year of publication: 1.054
Journal in the top 25%: Yes
Position of publication: 69
No. of journals in the cat.: 431

Impact source: SCOPUS
Category: Industrial and Manufacturing Engineering
Impact index in year of publication: 1.054
Journal in the top 25%: Yes
Position of publication: 32
No. of journals in the cat.: 318

Impact source: SCOPUS
Category: Industrial and Manufacturing Engineering
Impact index in year of publication: 1.054
Journal in the top 25%: Yes
Position of publication: 32
No. of journals in the cat.: 340

Source of citations: SCOPUS
Citations: 41

Source of citations: WOS
Citations: 36

111 Espin, M. J.; Valverde, J. M.; Quintanilla, M. A.S.; Castellanos, A.. Stabilization of gas-fluidized beds of magnetic powders by a cross-flow magnetic field. JOURNAL OF FLUID MECHANICS. 680, pp. 80 - 113. CAMBRIDGE UNIV PRESS, 2011. Available on-line at: <https://doi.org/10.1017/jfm.2011.151>. ISSN 0022-1120, ISSN 1469-7645

DOI: 10.1017/jfm.2011.151
Código WOS: WOS:000294111100005
Código Scopus: 80052166855
Type of production: Scientific paper
Format: Journal
Position of signature: 2
Total no. authors: 4
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - MECHANICS
Impact index in year of publication: 2.459
Journal in the top 25%: Yes
Position of publication: 10
No. of journals in the cat.: 132

Impact source: ISI
Category: Science Edition - PHYSICS, FLUIDS & PLASMAS
Impact index in year of publication: 2.459
Journal in the top 25%: No
Position of publication: 9
No. of journals in the cat.: 31

Impact source: SCOPUS
Category: Condensed Matter Physics
Impact index in year of publication: 2.059
Journal in the top 25%: Yes
Position of publication: 24
No. of journals in the cat.: 409

Impact source: SCOPUS
Category: Mechanical Engineering
Impact index in year of publication: 2.059
Journal in the top 25%: Yes
Position of publication: 18
No. of journals in the cat.: 559

Impact source: SCOPUS
Category: Mechanics of Materials
Impact index in year of publication: 2.059
Journal in the top 25%: Yes
Position of publication: 12
No. of journals in the cat.: 330

Source of citations: SCOPUS
Citations: 21

Source of citations: WOS
Citations: 16

112 Castellanos, Antonio; Jia, Xiaoping; Soria-Hoyo, Carlos; Valverde, Jose Manuel. Probing the nature of the contact between fine particles by using ultrasound propagation. PARTICUOLOGY. 9 - 6, pp. 659 - 662. ELSEVIER SCIENCE INC, 2011. Available on-line at: <https://doi.org/10.1016/j.partic.2011.06.009>. ISSN 1674-2001, ISSN 2210-4291
DOI: 10.1016/j.partic.2011.06.009
Código WOS: WOS:000299025600015
Código Scopus: 82955162958
Type of production: Scientific paper
Format: Journal
Position of signature: 4
Total no. authors: 4
Corresponding author: Yes

Impact source: ISI
Category: Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 1.423
Journal in the top 25%: No
Position of publication: 54
No. of journals in the cat.: 133

Impact source: ISI
Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
Impact index in year of publication: 1.423
Journal in the top 25%: No
Position of publication: 102
No. of journals in the cat.: 232

Impact source: SCOPUS
Category: Chemical Engineering (miscellaneous)
Impact index in year of publication: 0.569
Journal in the top 25%: No
Position of publication: 82
No. of journals in the cat.: 319

Impact source: SCOPUS
Category: Condensed Matter Physics
Impact index in year of publication: 0.569
Journal in the top 25%: No
Position of publication: 170
No. of journals in the cat.: 409

Impact source: SCOPUS
Category: Materials Science (miscellaneous)
Impact index in year of publication: 0.569
Journal in the top 25%: No
Position of publication: 155
No. of journals in the cat.: 530

Source of citations: SCOPUS
Citations: 4

Source of citations: WOS
Citations: 4

113 Valverde, J. M.; Pontiga, F.; Soria-Hoyo, C.; Quintanilla, M. A.S.; Moreno, H.; Duran, F. J.; Espin, M. J.. Improving the gas-solids contact efficiency in a fluidized bed of CO2 adsorbent fine particles. PHYSICAL CHEMISTRY CHEMICAL PHYSICS. 13 - 33, pp. 14906 - 14909. ROYAL SOC CHEMISTRY, 2011. Available on-line at: <https://doi.org/10.1039/c1cp21939a>. ISSN 1463-9076, ISSN 1463-9084

DOI: 10.1039/c1cp21939a
PMID: 21748143
Código WOS: WOS:000293860500009
Código Scopus: 80051770234
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 7
Corresponding author: Yes

Impact source: ISI
Category: Science Edition - CHEMISTRY, PHYSICAL
Impact index in year of publication: 3.573
Journal in the top 25%: No
Position of publication: 34
No. of journals in the cat.: 134

Impact source: ISI
Category: Science Edition - PHYSICS, ATOMIC, MOLECULAR & CHEMICAL
Impact index in year of publication: 3.573
Journal in the top 25%: Yes
Position of publication: 5
No. of journals in the cat.: 33

Impact source: SCOPUS
Category: Physical and Theoretical Chemistry
Impact index in year of publication: 1.707
Journal in the top 25%: Yes
Position of publication: 24
No. of journals in the cat.: 154

Impact source: SCOPUS
Category: Physics and Astronomy (miscellaneous)
Impact index in year of publication: 1.707
Journal in the top 25%: Yes
Position of publication: 27
No. of journals in the cat.: 253

Source of citations: SCOPUS
Citations: 50

Source of citations: WOS
Citations: 49

114 Valverde, J. M.; Espin, M. J.; Quintanilla, M. A S. Jamming and rheology of fluidized beds of magnetized particles. APPLIED RHEOLOGY. 21 - 3, pp. 35179-1 - 35179-9. KERSCHENSTEINER VERLAG GMBH, 2011. Available on-line at: <https://doi.org/10.3933/ApplRheol-21-35179>. ISSN 1430-6395, ISSN 1617-8106

DOI: 10.3933/ApplRheol-21-35179
Código WOS: WOS:000292756600014
Código Scopus: 80155175963
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 3
Corresponding author: Yes

Impact source: ISI
Category: Science Edition - MECHANICS
Impact index in year of publication: 1.000
Journal in the top 25%: No
Position of publication: 72
No. of journals in the cat.: 132

Impact source: SCOPUS
Category: Condensed Matter Physics
Impact index in year of publication: 0.283
Journal in the top 25%: No
Position of publication: 272
No. of journals in the cat.: 409

Impact source: SCOPUS
Category: Materials Science (miscellaneous)
Impact index in year of publication: 0.283
Journal in the top 25%: No
Position of publication: 240
No. of journals in the cat.: 530

Source of citations: SCOPUS **Citations:** 4

Source of citations: WOS **Citations:** 4

115 Espín Milla, Manuel Jesús; Valverde Millán, José Manuel; Sánchez Quintanilla, Miguel Ángel; Castellanos, A.. Rheology of magnetofluidized fine powders: The role of interparticle contact forces. JOURNAL OF RHEOLOGY. 54 - 4, pp. 719 - 740. JOURNAL RHEOLOGY AMER INST PHYSICS, 2010. Available on-line at: <https://doi.org/10.1122/1.3380851>. ISSN 0148-6055

DOI: 10.1122/1.3380851
Handle: 11441/30525
Código WOS: WOS:000279708400002
Código Scopus: 77954729510
Type of production: Scientific paper **Format:** Journal
Position of signature: 2
Total no. authors: 4 **Corresponding author:** Yes
Impact source: ISI **Category:** Science Edition - MECHANICS
Impact index in year of publication: 3.117 **Journal in the top 25%:** Yes
Position of publication: 4 **No. of journals in the cat.:** 133

Impact source: SCOPUS **Category:** Condensed Matter Physics
Impact index in year of publication: 1.831 **Journal in the top 25%:** Yes
Position of publication: 31 **No. of journals in the cat.:** 405

Impact source: SCOPUS **Category:** Materials Science (miscellaneous)
Impact index in year of publication: 1.831 **Journal in the top 25%:** Yes
Position of publication: 32 **No. of journals in the cat.:** 522

Impact source: SCOPUS **Category:** Mechanical Engineering
Impact index in year of publication: 1.831 **Journal in the top 25%:** Yes
Position of publication: 18 **No. of journals in the cat.:** 568

Impact source: SCOPUS **Category:** Mechanics of Materials
Impact index in year of publication: 1.831 **Journal in the top 25%:** Yes
Position of publication: 15 **No. of journals in the cat.:** 327

Source of citations: SCOPUS **Citations:** 12

Source of citations: WOS **Citations:** 11

116 Lepek, Daniel; Valverde, Jose Manuel; Pfeffer, Robert; Dave, Rajesh N.. Enhanced Nanofluidization by Alternating Electric Fields. AICHE JOURNAL. 56 - 1, pp. 54 - 65. WILEY, 2010. Available on-line at: <https://doi.org/10.1002/aic.11954>. ISSN 0001-1541, ISSN 1547-5905

DOI: 10.1002/aic.11954
Código WOS: WOS:000273152800005
Código Scopus: 78751510169
Type of production: Scientific paper **Format:** Journal
Position of signature: 2
Total no. authors: 4 **Corresponding author:** Yes
Impact source: ISI **Category:** Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 2.030 **Journal in the top 25%:** Yes
Position of publication: 32 **No. of journals in the cat.:** 135

Impact source: SCOPUS **Category:** Biotechnology

Impact index in year of publication: 1.085
Position of publication: 51
Journal in the top 25%: Yes
No. of journals in the cat.: 241

Impact source: SCOPUS
Impact index in year of publication: 1.085
Position of publication: 31
Category: Chemical Engineering (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 339

Impact source: SCOPUS
Impact index in year of publication: 1.085
Position of publication: 17
Category: Environmental Engineering
Journal in the top 25%: Yes
No. of journals in the cat.: 99

Source of citations: SCOPUS
Citations: 55

Source of citations: WOS
Citations: 49

117 Espin, M. J.; Valverde, J. M.; Quintanilla, M. A S; Castellanos, A.. Magnetic field induced inversion in the effect of particle size on powder cohesiveness. JOURNAL OF CHEMICAL PHYSICS. 133 - 2, pp. 024706-1 - 024706-5. AMER INST PHYSICS; AIP Publishing, 2010. Available on-line at: <https://doi.org/10.1063/1.3458002>. ISSN 0021-9606, ISSN 1089-7690
DOI: 10.1063/1.3458002
Handle: 11441/95669
Código WOS: WOS:000279917700030
Código Scopus: 77955735144
Type of production: Scientific paper
Format: Journal
Position of signature: 2
Total no. authors: 4

Impact source: ISI
Impact index in year of publication: 2.921
Position of publication: 7
Category: Science Edition - PHYSICS, ATOMIC, MOLECULAR & CHEMICAL
Journal in the top 25%: Yes
No. of journals in the cat.: 33

Impact source: SCOPUS
Impact index in year of publication: 1.777
Position of publication: 172
Category: Medicine (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 2.840

Impact source: SCOPUS
Impact index in year of publication: 1.777
Position of publication: 22
Category: Physical and Theoretical Chemistry
Journal in the top 25%: Yes
No. of journals in the cat.: 151

Impact source: SCOPUS
Impact index in year of publication: 1.777
Position of publication: 24
Category: Physics and Astronomy (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 243

Source of citations: SCOPUS
Citations: 5

Source of citations: WOS
Citations: 5

118 Valverde, J. M.; Espin, M. J.; Quintanilla, M. A S; Castellanos, A.. Fluid to solid transition in magnetofluidized beds of fine powders. JOURNAL OF APPLIED PHYSICS. 108 - 5, pp. 054903-1 - 054903-6. AMER INST PHYSICS; AIP Publishing, 2010. Available on-line at: <https://doi.org/10.1063/1.3480989>. ISSN 0021-8979, ISSN 1089-7550
DOI: 10.1063/1.3480989
Handle: 11441/89682
Código WOS: WOS:000282478900112
Código Scopus: 77956817792

Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 4
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - PHYSICS, APPLIED
Impact index in year of publication: 2.079
Journal in the top 25%: No
Position of publication: 34
No. of journals in the cat.: 118

Impact source: SCOPUS
Category: Physics and Astronomy (miscellaneous)
Impact index in year of publication: 1.484
Journal in the top 25%: Yes
Position of publication: 31
No. of journals in the cat.: 243

Source of citations: SCOPUS
Citations: 13

Source of citations: WOS
Citations: 13

119 Valverde, J. M.; Espin, M. J.; Quintanilla, M. A S; Castellanos, A.. Correlation between microstructure and yield stress in magnetically stabilized fluidized beds. JOURNAL OF MULTISCALE MODELING. 2 - 3-4, pp. 185 - 198. WORLD SCIENTIFIC PUBL CO PTE LTD, 2010. Available on-line at: <https://doi.org/10.1142/S1756973710000400>. ISSN 1756-9737, ISSN 1756-9745
DOI: 10.1142/S1756973710000400
Código WOS: WOS:000216865700002
Código Scopus: 80053461774
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 4
Corresponding author: Yes
Impact source: SCOPUS
Category: Computer Science Applications
Impact index in year of publication: 0.271
Journal in the top 25%: No
Position of publication: 291
No. of journals in the cat.: 498

Impact source: SCOPUS
Category: Modelling and Simulation
Impact index in year of publication: 0.271
Journal in the top 25%: No
Position of publication: 132
No. of journals in the cat.: 214

Source of citations: SCOPUS
Citations: 0

Source of citations: WOS
Citations: 0

120 Valverde, J. M.; Espin, M. J.; Quintanilla, M. A.S.; Castellanos, A.. Magnetofluidization of fine magnetite powder. PHYSICAL REVIEW E. 79 - 3, pp. 031306-1 - 031306-11. AMER PHYSICAL SOC, 2009. Available on-line at: <https://doi.org/10.1103/PhysRevE.79.031306>. ISSN 2470-0045, ISSN 2470-0053, ISSN 1063-651X, ISSN 1539-3755
DOI: 10.1103/PhysRevE.79.031306
Handle: 11441/26904
Código WOS: WOS:000264767300058
Código Scopus: 65349142511
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 4
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - PHYSICS, FLUIDS & PLASMAS
Impact index in year of publication: 2.400
Journal in the top 25%: No
Position of publication: 8
No. of journals in the cat.: 28

Impact source: ISI

Category: Science Edition - PHYSICS, MATHEMATICAL
Impact index in year of publication: 2.400
Journal in the top 25%: Yes
Position of publication: 5
No. of journals in the cat.: 47

Impact source: SCOPUS
Category: Condensed Matter Physics
Impact index in year of publication: 1.708
Journal in the top 25%: Yes
Position of publication: 31
No. of journals in the cat.: 386

Impact source: SCOPUS
Category: Condensed Matter Physics
Impact index in year of publication: 1.708
Journal in the top 25%: Yes
Position of publication: 31
No. of journals in the cat.: 401

Impact source: SCOPUS
Category: Statistical and Nonlinear Physics
Impact index in year of publication: 1.708
Journal in the top 25%: Yes
Position of publication: 7
No. of journals in the cat.: 35

Impact source: SCOPUS
Category: Statistical and Nonlinear Physics
Impact index in year of publication: 1.708
Journal in the top 25%: Yes
Position of publication: 7
No. of journals in the cat.: 38

Impact source: SCOPUS
Category: Statistics and Probability
Impact index in year of publication: 1.708
Journal in the top 25%: Yes
Position of publication: 24
No. of journals in the cat.: 149

Impact source: SCOPUS
Category: Statistics and Probability
Impact index in year of publication: 1.708
Journal in the top 25%: Yes
Position of publication: 24
No. of journals in the cat.: 164

Source of citations: SCOPUS
Citations: 20

Source of citations: WOS
Citations: 18

121 Valverde, J. M.; Espin, M. J.; Quintanilla, M. A.S.; Castellanos, A.. Electrofluidized bed of silica nanoparticles. JOURNAL OF ELECTROSTATICS. 67 - 2-3, pp. 439 - 444. ELSEVIER SCIENCE BV; ELSEVIER, 2009. Available on-line at: <https://doi.org/10.1016/j.elstat.2009.01.021>. ISSN 0304-3886, ISSN 1873-5738
DOI: 10.1016/j.elstat.2009.01.021
Código WOS: WOS:000266019500069
Código Scopus: 64149106543
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 4
Corresponding author: Yes

Impact source: ISI
Category: Science Edition - ENGINEERING, ELECTRICAL & ELECTRONIC
Impact index in year of publication: 1.384
Journal in the top 25%: No
Position of publication: 81
No. of journals in the cat.: 246

Impact source: SCOPUS
Category: Biotechnology
Impact index in year of publication: 0.928
Journal in the top 25%: No
Position of publication: 65
No. of journals in the cat.: 223

Impact source: SCOPUS
Category: Condensed Matter Physics
Impact index in year of publication: 0.928
Journal in the top 25%: No
Position of publication: 117
No. of journals in the cat.: 401

Impact source: SCOPUS
Impact index in year of publication: 0.928
Position of publication: 85
Category: Electrical and Electronic Engineering
Journal in the top 25%: Yes
No. of journals in the cat.: 598

Impact source: SCOPUS
Impact index in year of publication: 0.928
Position of publication: 45
Category: Electronic, Optical and Magnetic Materials
Journal in the top 25%: Yes
No. of journals in the cat.: 188

Impact source: SCOPUS
Impact index in year of publication: 0.928
Position of publication: 22
Category: Surfaces, Coatings and Films
Journal in the top 25%: Yes
No. of journals in the cat.: 113

Source of citations: SCOPUS
Citations: 15

Source of citations: WOS
Citations: 14

122 Chen, Yuhua; Quintanilla, M. A.S.; Yang, Jun; Valverde, Jose M.; Dave, Rajesh N.. Pull-off force of coated fine powders under small consolidation. PHYSICAL REVIEW E. 79 - 4, AMER PHYSICAL SOC, 2009. Available on-line at: <https://doi.org/10.1103/PhysRevE.79.041305>. ISSN 2470-0045, ISSN 2470-0053, ISSN 1063-651X, ISSN 1539-3755
DOI: 10.1103/PhysRevE.79.041305
Handle: 11441/26923
Código WOS: WOS:000265941300067
Código Scopus: 65549170680
Type of production: Scientific paper
Format: Journal
Position of signature: 4
Total no. authors: 5

Impact source: ISI
Impact index in year of publication: 2.400
Position of publication: 8
Category: Science Edition - PHYSICS, FLUIDS & PLASMAS
Journal in the top 25%: No
No. of journals in the cat.: 28

Impact source: ISI
Impact index in year of publication: 2.400
Position of publication: 5
Category: Science Edition - PHYSICS, MATHEMATICAL
Journal in the top 25%: Yes
No. of journals in the cat.: 47

Impact source: SCOPUS
Impact index in year of publication: 1.708
Position of publication: 31
Category: Condensed Matter Physics
Journal in the top 25%: Yes
No. of journals in the cat.: 386

Impact source: SCOPUS
Impact index in year of publication: 1.708
Position of publication: 31
Category: Condensed Matter Physics
Journal in the top 25%: Yes
No. of journals in the cat.: 401

Impact source: SCOPUS
Impact index in year of publication: 1.708
Position of publication: 7
Category: Statistical and Nonlinear Physics
Journal in the top 25%: Yes
No. of journals in the cat.: 35

Impact source: SCOPUS
Impact index in year of publication: 1.708
Position of publication: 7
Category: Statistical and Nonlinear Physics
Journal in the top 25%: Yes
No. of journals in the cat.: 38

Impact source: SCOPUS
Impact index in year of publication: 1.708
Category: Statistics and Probability
Journal in the top 25%: Yes

Position of publication: 24
No. of journals in the cat.: 149

Impact source: SCOPUS
Category: Statistics and Probability
Impact index in year of publication: 1.708
Journal in the top 25%: Yes
Position of publication: 24
No. of journals in the cat.: 164

Source of citations: SCOPUS
Citations: 51

Source of citations: WOS
Citations: 47

123 Espín Milla, Manuel Jesús; Valverde Millán, José Manuel; Sánchez Quintanilla, Miguel Ángel; Castellanos Mata, Antonio. Electromechanics of fluidized beds of nanoparticles. PHYSICAL REVIEW E. 79 - 1, pp. 011304-1 - 011304-7. AMER PHYSICAL SOC, 2009. Available on-line at: <https://doi.org/10.1103/PhysRevE.79.011304>. ISSN 2470-0045, ISSN 2470-0053, ISSN 1063-651X, ISSN 1539-3755

DOI: 10.1103/PhysRevE.79.011304
Handle: 11441/26918
Código WOS: WOS:000262976600040
Código Scopus: 60749136353
Type of production: Scientific paper
Format: Journal
Position of signature: 2
Total no. authors: 4

Impact source: ISI
Category: Science Edition - PHYSICS, FLUIDS & PLASMAS
Impact index in year of publication: 2.400
Journal in the top 25%: No
Position of publication: 8
No. of journals in the cat.: 28

Impact source: ISI
Category: Science Edition - PHYSICS, MATHEMATICAL
Impact index in year of publication: 2.400
Journal in the top 25%: Yes
Position of publication: 5
No. of journals in the cat.: 47

Impact source: SCOPUS
Category: Condensed Matter Physics
Impact index in year of publication: 1.708
Journal in the top 25%: Yes
Position of publication: 31
No. of journals in the cat.: 386

Impact source: SCOPUS
Category: Condensed Matter Physics
Impact index in year of publication: 1.708
Journal in the top 25%: Yes
Position of publication: 31
No. of journals in the cat.: 401

Impact source: SCOPUS
Category: Statistical and Nonlinear Physics
Impact index in year of publication: 1.708
Journal in the top 25%: Yes
Position of publication: 7
No. of journals in the cat.: 35

Impact source: SCOPUS
Category: Statistical and Nonlinear Physics
Impact index in year of publication: 1.708
Journal in the top 25%: Yes
Position of publication: 7
No. of journals in the cat.: 38

Impact source: SCOPUS
Category: Statistics and Probability
Impact index in year of publication: 1.708
Journal in the top 25%: Yes
Position of publication: 24
No. of journals in the cat.: 149

Impact source: SCOPUS
Category: Statistics and Probability
Impact index in year of publication: 1.708
Journal in the top 25%: Yes
Position of publication: 24
No. of journals in the cat.: 164

Source of citations: SCOPUS **Citations:** 26

Source of citations: WOS **Citations:** 20

124 Soria-Hoyo, C.; Valverde, J. M.; Castellanos, A.. Avalanches in moistened beds of glass beads. POWDER TECHNOLOGY. 196 - 3, pp. 257 - 262. ELSEVIER SCIENCE BV; ELSEVIER, 2009. Available on-line at: <https://doi.org/10.1016/j.powtec.2009.08.008>. ISSN 0032-5910, ISSN 1873-328X

DOI: 10.1016/j.powtec.2009.08.008
Código WOS: WOS:000271143700003
Código Scopus: 70349445267
Type of production: Scientific paper **Format:** Journal
Position of signature: 2
Total no. authors: 3 **Corresponding author:** Yes
Impact source: ISI **Category:** Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 1.745 **Journal in the top 25%:** No
Position of publication: 38 **No. of journals in the cat.:** 128

Impact source: SCOPUS **Category:** Chemical Engineering (miscellaneous)
Impact index in year of publication: 0.972 **Journal in the top 25%:** Yes
Position of publication: 44 **No. of journals in the cat.:** 342

Source of citations: SCOPUS **Citations:** 16

Source of citations: WOS **Citations:** 15

125 Valverde, J. M.; Espin, M. J.; Quintanilla, M. A.S.; Castellanos, A.. Mesoscopic structuring and yield stress of magnetofluidized fine particles. EPL. 88 - 2, pp. 24003-1 - 24003-5. EPL ASSOCIATION, EUROPEAN PHYSICAL SOCIETY; IOP PUBLISHING LTD, 2009. Available on-line at: <https://doi.org/10.1209/0295-5075/88/24003>. ISSN 0295-5075, ISSN 1286-4854

DOI: 10.1209/0295-5075/88/24003
Handle: 11441/62496
Código WOS: WOS:000271963700016
Código Scopus: 78649295714
Type of production: Scientific paper **Format:** Journal
Position of signature: 1
Total no. authors: 4 **Corresponding author:** Yes
Impact source: ISI **Category:** Science Edition - PHYSICS, MULTIDISCIPLINARY
Impact index in year of publication: 2.893 **Journal in the top 25%:** Yes
Position of publication: 14 **No. of journals in the cat.:** 71

Impact source: SCOPUS **Category:** Physics and Astronomy (miscellaneous)
Impact index in year of publication: 2.028 **Journal in the top 25%:** Yes
Position of publication: 22 **No. of journals in the cat.:** 242

Source of citations: SCOPUS **Citations:** 2

Source of citations: WOS **Citations:** 2

126 Valverde, Jose Manuel; Castellanos, Antonio. A modified Richardson-Zaki equation for fluidization of Geldart B magnetic particles. POWDER TECHNOLOGY. 181 - 3, pp. 347 - 350. ELSEVIER SCIENCE BV; ELSEVIER, 2008. Available on-line at: <https://doi.org/10.1016/j.powtec.2007.05.018>. ISSN 0032-5910, ISSN 1873-328X

DOI: 10.1016/j.powtec.2007.05.018

Código WOS: WOS:000253747600015
Código Scopus: 38649097591
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 2
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 1.766
Journal in the top 25%: Yes
Position of publication: 26
No. of journals in the cat.: 116
Impact source: SCOPUS
Category: Chemical Engineering (miscellaneous)
Impact index in year of publication: 0.903
Journal in the top 25%: Yes
Position of publication: 38
No. of journals in the cat.: 356
Source of citations: SCOPUS
Citations: 16
Source of citations: WOS
Citations: 16

127 Valverde Millán, José Manuel; Castellanos Mata, Antonio; Sánchez Quintanilla, Miguel Ángel; Gilabert, Francisco A.. Effect of inclination on gas-fluidized beds of fine cohesive powders. POWDER TECHNOLOGY. 182 - 3, pp. 398 - 405. ELSEVIER SCIENCE BV; ELSEVIER, 2008. Available on-line at: <https://doi.org/10.1016/j.powtec.2007.07.004>. ISSN 0032-5910, ISSN 1873-328X
DOI: 10.1016/j.powtec.2007.07.004
Código WOS: WOS:000254818800009
Código Scopus: 39649117332
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 4
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 1.766
Journal in the top 25%: Yes
Position of publication: 26
No. of journals in the cat.: 116
Impact source: SCOPUS
Category: Chemical Engineering (miscellaneous)
Impact index in year of publication: 0.903
Journal in the top 25%: Yes
Position of publication: 38
No. of journals in the cat.: 356
Source of citations: SCOPUS
Citations: 24
Source of citations: WOS
Citations: 21

128 Soria-Hoyo, C.; Valverde, J. M.; Castellanos, A.. Effect of vibration on flow properties of fine glass beads. AICHE JOURNAL. 54 - 4, pp. 886 - 896. WILEY, 2008. Available on-line at: <https://doi.org/10.1002/aic.11423>. ISSN 0001-1541, ISSN 1547-5905
DOI: 10.1002/aic.11423
Código WOS: WOS:000254217100006
Código Scopus: 42149121395
Type of production: Scientific paper
Format: Journal
Position of signature: 2
Total no. authors: 3
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 1.883
Journal in the top 25%: Yes

Position of publication: 25 **No. of journals in the cat.:** 116

Impact source: SCOPUS **Category:** Biotechnology
Impact index in year of publication: 1.282 **Journal in the top 25%:** Yes
Position of publication: 35 **No. of journals in the cat.:** 212

Impact source: SCOPUS **Category:** Chemical Engineering (miscellaneous)
Impact index in year of publication: 1.282 **Journal in the top 25%:** Yes
Position of publication: 18 **No. of journals in the cat.:** 356

Impact source: SCOPUS **Category:** Environmental Engineering
Impact index in year of publication: 1.282 **Journal in the top 25%:** Yes
Position of publication: 6 **No. of journals in the cat.:** 86

Source of citations: SCOPUS **Citations:** 9

Source of citations: WOS **Citations:** 8

129 Valverde, Jose Manuel; Castellanos, Antonio. Bubbling suppression in fluidized beds of fine and ultrafine powders. PARTICULATE SCIENCE AND TECHNOLOGY. 26 - 3, pp. 197 - 213. TAYLOR & FRANCIS INC, 2008. Available on-line at: <https://doi.org/10.1080/02726350802026656>. ISSN 0272-6351, ISSN 1548-0046

DOI: 10.1080/02726350802026656
Código WOS: WOS:000257385700001
Código Scopus: 45749094169
Type of production: Scientific paper **Format:** Journal
Position of signature: 1
Total no. authors: 2 **Corresponding author:** Yes

Impact source: ISI **Category:** Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 0.417 **Journal in the top 25%:** No
Position of publication: 86 **No. of journals in the cat.:** 116

Impact source: SCOPUS **Category:** Chemical Engineering (miscellaneous)
Impact index in year of publication: 0.284 **Journal in the top 25%:** No
Position of publication: 131 **No. of journals in the cat.:** 356

Source of citations: SCOPUS **Citations:** 8

Source of citations: WOS **Citations:** 7

130 Valverde, Jose Manuel; Quintanilla, M. A.S.; Castellanos, Antonio; Lepek, Daniel; Quevedo, Jose; Dave, Rajesh N.; Pfeffer, Robert. Fluidization of fine and ultrafine particles using nitrogen and neon as fluidizing gases. AICHE JOURNAL. 54 - 1, pp. 86 - 103. WILEY, 2008. Available on-line at: <https://doi.org/10.1002/aic.11329>. ISSN 0001-1541, ISSN 1547-5905

DOI: 10.1002/aic.11329
Código WOS: WOS:000251827800008
Código Scopus: 38149005467
Type of production: Scientific paper **Format:** Journal
Position of signature: 1
Total no. authors: 7 **Corresponding author:** Yes

Impact source: ISI **Category:** Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 1.883 **Journal in the top 25%:** Yes
Position of publication: 25 **No. of journals in the cat.:** 116

Impact source: SCOPUS
Impact index in year of publication: 1.282
Position of publication: 35
Category: Biotechnology
Journal in the top 25%: Yes
No. of journals in the cat.: 212

Impact source: SCOPUS
Impact index in year of publication: 1.282
Position of publication: 18
Category: Chemical Engineering (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 356

Impact source: SCOPUS
Impact index in year of publication: 1.282
Position of publication: 6
Category: Environmental Engineering
Journal in the top 25%: Yes
No. of journals in the cat.: 86

Source of citations: SCOPUS
Citations: 56

Source of citations: WOS
Citations: 55

131 Quintanilla, M. A.S.; Valverde, J. M.; Castellanos, A.; Lepek, D.; Pfeffer, R.; Dave, R. N.. Nanofluidization as affected by vibration and electrostatic fields. CHEMICAL ENGINEERING SCIENCE. 63 - 22, pp. 5559 - 5569. PERGAMON-ELSEVIER SCIENCE LTD, 2008. Available on-line at: <https://doi.org/10.1016/j.ces.2008.08.012>. ISSN 0009-2509, ISSN 1873-4405
DOI: 10.1016/j.ces.2008.08.012
Código WOS: WOS:000261564600018
Código Scopus: 54149116715
Type of production: Scientific paper
Format: Journal
Position of signature: 2
Total no. authors: 6
Corresponding author: Yes

Impact source: ISI
Category: Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 1.884
Position of publication: 24
Journal in the top 25%: Yes
No. of journals in the cat.: 116

Impact source: SCOPUS
Impact index in year of publication: 1.294
Position of publication: 63
Category: Applied Mathematics
Journal in the top 25%: Yes
No. of journals in the cat.: 364

Impact source: SCOPUS
Impact index in year of publication: 1.294
Position of publication: 15
Category: Chemical Engineering (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 356

Impact source: SCOPUS
Impact index in year of publication: 1.294
Position of publication: 45
Category: Chemistry (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 399

Impact source: SCOPUS
Impact index in year of publication: 1.294
Position of publication: 12
Category: Industrial and Manufacturing Engineering
Journal in the top 25%: Yes
No. of journals in the cat.: 305

Source of citations: SCOPUS
Citations: 39

Source of citations: WOS
Citations: 34

132 Valverde, Jose Manuel; Castellanos, Antonio. Fluidization of nanoparticles: A simple equation for estimating the size of agglomerates. CHEMICAL ENGINEERING JOURNAL. 140 - 1-3, pp. 296 - 304. Elsevier Science; ELSEVIER SCIENCE SA, 2008. Available on-line at: <https://doi.org/10.1016/j.cej.2007.09.032>. ISSN 1385-8947, ISSN 1873-3212

DOI: 10.1016/j.cej.2007.09.032
Código WOS: WOS:000257260800033
Código Scopus: 44049107215
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 2
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 2.813
Journal in the top 25%: Yes
Position of publication: 6
No. of journals in the cat.: 116

Impact source: SCOPUS
Category: Chemical Engineering (miscellaneous)
Impact index in year of publication: 1.058
Journal in the top 25%: Yes
Position of publication: 32
No. of journals in the cat.: 356

Impact source: SCOPUS
Category: Chemistry (miscellaneous)
Impact index in year of publication: 1.058
Journal in the top 25%: Yes
Position of publication: 61
No. of journals in the cat.: 399

Impact source: SCOPUS
Category: Environmental Chemistry
Impact index in year of publication: 1.058
Journal in the top 25%: Yes
Position of publication: 20
No. of journals in the cat.: 85

Impact source: SCOPUS
Category: Industrial and Manufacturing Engineering
Impact index in year of publication: 1.058
Journal in the top 25%: Yes
Position of publication: 21
No. of journals in the cat.: 305

Source of citations: SCOPUS
Citations: 57

Source of citations: WOS
Citations: 51

133 Valverde, J. M.; Quintanilla, M. A.S.; Espin, M. J.; Castellanos, A.. Nanofluidization electrostatics. PHYSICAL REVIEW E. 77 - 3, pp. 031301-1 - 031301-10. AMER PHYSICAL SOC, 2008. Available on-line at: <https://doi.org/10.1103/PhysRevE.77.031301>. ISSN 2470-0045, ISSN 2470-0053, ISSN 1063-651X, ISSN 1539-3755
DOI: 10.1103/PhysRevE.77.031301
Handle: 11441/26917
Código WOS: WOS:000254539700055
Código Scopus: 40949116232
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 4
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - PHYSICS, FLUIDS & PLASMAS
Impact index in year of publication: 2.508
Journal in the top 25%: Yes
Position of publication: 6
No. of journals in the cat.: 26

Impact source: ISI
Category: Science Edition - PHYSICS, MATHEMATICAL
Impact index in year of publication: 2.508
Journal in the top 25%: Yes
Position of publication: 6
No. of journals in the cat.: 46

Impact source: SCOPUS
Category: Condensed Matter Physics
Impact index in year of publication: 1.972
Journal in the top 25%: Yes

Position of publication: 25 **No. of journals in the cat.:** 385

Impact source: SCOPUS **Category:** Condensed Matter Physics
Impact index in year of publication: 1.972 **Journal in the top 25%:** Yes
Position of publication: 25 **No. of journals in the cat.:** 400

Impact source: SCOPUS **Category:** Statistical and Nonlinear Physics
Impact index in year of publication: 1.972 **Journal in the top 25%:** Yes
Position of publication: 5 **No. of journals in the cat.:** 35

Impact source: SCOPUS **Category:** Statistics and Probability
Impact index in year of publication: 1.972 **Journal in the top 25%:** Yes
Position of publication: 23 **No. of journals in the cat.:** 140

Source of citations: SCOPUS **Citations:** 37

Source of citations: WOS **Citations:** 33

134 Gilabert-Villegas, Francisco Antonio; Sanchez-Quintanilla, Miguel Angel; Castellanos-Mata, Antonio; Valverde-Millán, Jose Manuel. Adhesive elastic plastic contact: theory and numerical simulation. ZAMM-Zeitschrift fur Angewandte Mathematik und Mechanik. 87 - 2, pp. 128 - 138. WILEY-V C H VERLAG GMBH, 2007. Available on-line at: <https://doi.org/10.1002/zamm.200610307>. ISSN 0044-2267, ISSN 1521-4001
DOI: 10.1002/zamm.200610307
Código WOS: WOS:000244928600006
Código Scopus: 33947141008
Type of production: Scientific paper **Format:** Journal
Position of signature: 4
Total no. authors: 4

Impact source: ISI **Category:** Science Edition - MATHEMATICS, APPLIED
Impact index in year of publication: 0.550 **Journal in the top 25%:** No
Position of publication: 109 **No. of journals in the cat.:** 165

Impact source: ISI **Category:** Science Edition - MECHANICS
Impact index in year of publication: 0.550 **Journal in the top 25%:** No
Position of publication: 82 **No. of journals in the cat.:** 112

Impact source: SCOPUS **Category:** Applied Mathematics
Impact index in year of publication: 0.458 **Journal in the top 25%:** No
Position of publication: 187 **No. of journals in the cat.:** 309

Impact source: SCOPUS **Category:** Computational Mechanics
Impact index in year of publication: 0.458 **Journal in the top 25%:** No
Position of publication: 15 **No. of journals in the cat.:** 34

Source of citations: SCOPUS **Citations:** 15

Source of citations: WOS **Citations:** 14

135 Castellanos, A; Quintanilla, M. A.S.; Valverde, J. M.; Soria-Del Hoyo, Carlos. Novel instrument to characterize dry granular materials at low consolidations. REVIEW OF SCIENTIFIC INSTRUMENTS. 78 - 7, pp. 073901-1 - 073901-10. AMER INST PHYSICS; AIP Publishing, 2007. Available on-line at: <https://doi.org/10.1063/1.2751096>. ISSN 0034-6748, ISSN 1089-7623
DOI: 10.1063/1.2751096
PMID: 17672767
Código WOS: WOS:000248486300037

Código Scopus: 34547587642
Type of production: Scientific paper
Format: Journal
Position of signature: 3
Total no. authors: 4
Impact source: ISI
Category: Science Edition - INSTRUMENTS & INSTRUMENTATION
Impact index in year of publication: 1.384
Journal in the top 25%: No
Position of publication: 15
No. of journals in the cat.: 55

Impact source: ISI
Category: Science Edition - PHYSICS, APPLIED
Impact index in year of publication: 1.384
Journal in the top 25%: No
Position of publication: 43
No. of journals in the cat.: 94

Impact source: SCOPUS
Category: Instrumentation
Impact index in year of publication: 0.922
Journal in the top 25%: Yes
Position of publication: 12
No. of journals in the cat.: 76

Impact source: SCOPUS
Category: Medicine (miscellaneous)
Impact index in year of publication: 0.922
Journal in the top 25%: Yes
Position of publication: 432
No. of journals in the cat.: 2.752

Source of citations: SCOPUS
Citations: 13

Source of citations: WOS
Citations: 13

136 Valverde-Millán, Jose Manuel; Castellanos-Mata, Antonio. Types of gas fluidization of cohesive granular materials. PHYSICAL REVIEW E. 75 - 3, pp. 031306-1 - 031306-6. AMER PHYSICAL SOC, 2007. Available on-line at: <https://doi.org/10.1103/PhysRevE.75.031306>. ISSN 2470-0045, ISSN 2470-0053, ISSN 1063-651X, ISSN 1539-3755
DOI: 10.1103/PhysRevE.75.031306
Handle: 11441/26916
PMID: 17500692
Código WOS: WOS:000245324300038
Código Scopus: 33947644233
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 2
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - PHYSICS, FLUIDS & PLASMAS
Impact index in year of publication: 2.483
Journal in the top 25%: Yes
Position of publication: 4
No. of journals in the cat.: 25

Impact source: ISI
Category: Science Edition - PHYSICS, MATHEMATICAL
Impact index in year of publication: 2.483
Journal in the top 25%: Yes
Position of publication: 4
No. of journals in the cat.: 43

Impact source: SCOPUS
Category: Condensed Matter Physics
Impact index in year of publication: 1.615
Journal in the top 25%: Yes
Position of publication: 41
No. of journals in the cat.: 377

Impact source: SCOPUS
Category: Statistical and Nonlinear Physics
Impact index in year of publication: 1.615
Journal in the top 25%: Yes
Position of publication: 8
No. of journals in the cat.: 35

Impact source: SCOPUS
Impact index in year of publication: 1.615
Position of publication: 30
Category: Statistics and Probability
Journal in the top 25%: Yes
No. of journals in the cat.: 129

Source of citations: SCOPUS
Citations: 50

Source of citations: WOS
Citations: 47

137 Valverde-Millán, Jose Manuel; Castellanos-Mata, Antonio. Compaction of fine powders: from fluidized agglomerates to primary particles. GRANULAR MATTER. 9 - 1-2, pp. 19 - 24. SPRINGER, 2007. Available on-line at: <https://doi.org/10.1007/s10035-006-0022-2>. ISSN 1434-5021, ISSN 1434-7636
DOI: 10.1007/s10035-006-0022-2
Código WOS: WOS:000242428300003
Código Scopus: 33751515231
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 2
Corresponding author: Yes

Impact source: ISI
Impact index in year of publication: 1.370
Position of publication: 65
Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
Journal in the top 25%: No
No. of journals in the cat.: 190

Impact source: ISI
Impact index in year of publication: 1.370
Position of publication: 20
Category: Science Edition - MECHANICS
Journal in the top 25%: Yes
No. of journals in the cat.: 112

Impact source: ISI
Impact index in year of publication: 1.370
Position of publication: 44
Category: Science Edition - PHYSICS, APPLIED
Journal in the top 25%: No
No. of journals in the cat.: 94

Impact source: SCOPUS
Impact index in year of publication: 0.622
Position of publication: 130
Category: Materials Science (miscellaneous)
Journal in the top 25%: No
No. of journals in the cat.: 440

Impact source: SCOPUS
Impact index in year of publication: 0.622
Position of publication: 97
Category: Mechanics of Materials
Journal in the top 25%: No
No. of journals in the cat.: 285

Impact source: SCOPUS
Impact index in year of publication: 0.622
Position of publication: 78
Category: Physics and Astronomy (miscellaneous)
Journal in the top 25%: No
No. of journals in the cat.: 199

Source of citations: SCOPUS
Citations: 21

Source of citations: WOS
Citations: 20

138 Valverde-Millán, Jose Manuel; Castellanos-Mata, Antonio. Fluidization, bubbling and jamming of nanoparticle agglomerates. CHEMICAL ENGINEERING SCIENCE. 62 - 23, pp. 6947 - 6956. PERGAMON-ELSEVIER SCIENCE LTD, 2007. Available on-line at: <https://doi.org/10.1016/j.ces.2007.08.050>. ISSN 0009-2509, ISSN 1873-4405
DOI: 10.1016/j.ces.2007.08.050
Código WOS: WOS:000251072600042
Código Scopus: 35348955873
Type of production: Scientific paper
Format: Journal
Position of signature: 1

Total no. authors: 2
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 1.775
Journal in the top 25%: Yes
Position of publication: 17
No. of journals in the cat.: 114

Impact source: SCOPUS
Category: Applied Mathematics
Impact index in year of publication: 1.332
Journal in the top 25%: Yes
Position of publication: 55
No. of journals in the cat.: 309

Impact source: SCOPUS
Category: Chemical Engineering (miscellaneous)
Impact index in year of publication: 1.332
Journal in the top 25%: Yes
Position of publication: 20
No. of journals in the cat.: 341

Impact source: SCOPUS
Category: Chemistry (miscellaneous)
Impact index in year of publication: 1.332
Journal in the top 25%: Yes
Position of publication: 47
No. of journals in the cat.: 370

Impact source: SCOPUS
Category: Industrial and Manufacturing Engineering
Impact index in year of publication: 1.332
Journal in the top 25%: Yes
Position of publication: 11
No. of journals in the cat.: 298

Source of citations: SCOPUS
Citations: 59

Source of citations: WOS
Citations: 55

139 Valverde-Millán, Jose Manuel; Castellanos-Mata, Antonio. Magnetic field assisted fluidization: a modified richardson-zaki equation: magnetic particulate systems. China Particuology. 5 - 1-2, pp. 61 - 70. Elsevier BV, 2007. Available on-line at: <https://doi.org/10.1016/j.cpart.2007.01.001>. ISSN 1672-2515
DOI: 10.1016/j.cpart.2007.01.001
Código Scopus: 34250773364
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 2
Source of citations: SCOPUS
Citations: 18

140 Valverde-Millán, Jose Manuel; Castellanos-Mata, Antonio. Fluidization of nanoparticies: a modified richardson-zaki law. AICHE JOURNAL. 52 - 2, pp. 838 - 842. WILEY, 2006. Available on-line at: <https://doi.org/10.1002/aic.10652>. ISSN 0001-1541, ISSN 1547-5905
DOI: 10.1002/aic.10652
Código WOS: WOS:000234967600039
Código Scopus: 32444438504
Código de Dialnet: ARTREV 1391121
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 2
Impact source: ISI
Category: Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 2.153
Journal in the top 25%: Yes
Position of publication: 7
No. of journals in the cat.: 110

Impact source: SCOPUS
Category: Biotechnology
Impact index in year of publication: 1.486
Journal in the top 25%: Yes

Position of publication: 20
No. of journals in the cat.: 162

Impact source: SCOPUS
Category: Chemical Engineering (miscellaneous)
Impact index in year of publication: 1.486
Journal in the top 25%: Yes
Position of publication: 11
No. of journals in the cat.: 344

Impact source: SCOPUS
Category: Environmental Engineering
Impact index in year of publication: 1.486
Journal in the top 25%: Yes
Position of publication: 4
No. of journals in the cat.: 73

Source of citations: SCOPUS
Citations: 55

Source of citations: WOS
Citations: 50

Source of citations: Dialnet
Citations: 0

141 Valverde-Millán, Jose Manuel; Castellanos-Mata, Antonio. Effect of compaction history on the fluidization behavior of fine cohesive powders. PHYSICAL REVIEW E. 73 - 5 Pt 2, pp. 056310-1 - 056310-5. AMER PHYSICAL SOC, 2006. Available on-line at: <https://doi.org/10.1103/PhysRevE.73.056310>. ISSN 2470-0045, ISSN 2470-0053, ISSN 1063-651X, ISSN 1539-3755
DOI: 10.1103/PhysRevE.73.056310
Handle: 11441/26915
PMID: 16803040
Código WOS: WOS:000237951400059
Código Scopus: 33646888833
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 2
Corresponding author: Yes

Impact source: ISI
Category: Science Edition - PHYSICS, FLUIDS & PLASMAS
Impact index in year of publication: 2.438
Journal in the top 25%: Yes
Position of publication: 5
No. of journals in the cat.: 24

Impact source: ISI
Category: Science Edition - PHYSICS, MATHEMATICAL
Impact index in year of publication: 2.438
Journal in the top 25%: Yes
Position of publication: 2
No. of journals in the cat.: 41

Impact source: SCOPUS
Category: Condensed Matter Physics
Impact index in year of publication: 1.266
Journal in the top 25%: Yes
Position of publication: 63
No. of journals in the cat.: 371

Impact source: SCOPUS
Category: Statistical and Nonlinear Physics
Impact index in year of publication: 1.266
Journal in the top 25%: Yes
Position of publication: 9
No. of journals in the cat.: 35

Impact source: SCOPUS
Category: Statistics and Probability
Impact index in year of publication: 1.266
Journal in the top 25%: No
Position of publication: 36
No. of journals in the cat.: 127

Source of citations: SCOPUS
Citations: 8

Source of citations: WOS
Citations: 7

142 Valverde-Millán, Jose Manuel; Castellanos-Mata, Antonio. Random loose packing of cohesive granular materials. EPL. 75 - 6, pp. 985 - 991. EPL ASSOCIATION, EUROPEAN PHYSICAL SOCIETY; IOP PUBLISHING LTD, 2006. Available on-line at: <https://doi.org/10.1209/epl/i2006-10208-4>. ISSN 0295-5075, ISSN 1286-4854

DOI: 10.1209/epl/i2006-10208-4
Código WOS: WOS:000241491200022
Código Scopus: 33749175056
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 2
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - PHYSICS, MULTIDISCIPLINARY
Impact index in year of publication: 2.229
Journal in the top 25%: Yes
Position of publication: 14
No. of journals in the cat.: 68
Impact source: SCOPUS
Category: Physics and Astronomy (miscellaneous)
Impact index in year of publication: 1.927
Journal in the top 25%: Yes
Position of publication: 22
No. of journals in the cat.: 192
Source of citations: SCOPUS
Citations: 61
Source of citations: WOS
Citations: 55

143 Sanchez-Quintanilla, Miguel Angel; Valverde-Millán, Jose Manuel; Castellanos-Mata, Antonio. Adhesion force between fine particles with controlled surface properties. AICHE JOURNAL. 52 - 5, pp. 1715 - 1728. WILEY, 2006. Available on-line at: <https://doi.org/10.1002/aic.10770>. ISSN 0001-1541, ISSN 1547-5905

DOI: 10.1002/aic.10770
Código WOS: WOS:000237128700007
Código Scopus: 33646365385
Código de Dialnet: ARTREV 1978131
Type of production: Scientific paper
Format: Journal
Position of signature: 2
Total no. authors: 3
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 2.153
Journal in the top 25%: Yes
Position of publication: 7
No. of journals in the cat.: 110
Impact source: SCOPUS
Category: Biotechnology
Impact index in year of publication: 1.486
Journal in the top 25%: Yes
Position of publication: 20
No. of journals in the cat.: 162
Impact source: SCOPUS
Category: Chemical Engineering (miscellaneous)
Impact index in year of publication: 1.486
Journal in the top 25%: Yes
Position of publication: 11
No. of journals in the cat.: 344
Impact source: SCOPUS
Category: Environmental Engineering
Impact index in year of publication: 1.486
Journal in the top 25%: Yes
Position of publication: 4
No. of journals in the cat.: 73
Source of citations: SCOPUS
Citations: 54
Source of citations: WOS
Citations: 54
Source of citations: Dialnet
Citations: 0

144 Valverde-Millán, Jose Manuel; Castellanos-Mata, Antonio. High viscosity gas fluidization of fine particles: an extended window of quasihomogeneous flow. PHYSICAL REVIEW E. 74 - 2, pp. 021302-1 - 021302-6. AMER PHYSICAL SOC, 2006. Available on-line at: <https://doi.org/10.1103/PhysRevE.74.021302>. ISSN 2470-0045, ISSN 2470-0053, ISSN 1063-651X, ISSN 1539-3755

DOI: 10.1103/PhysRevE.74.021302
Handle: 11441/26890
PMID: 17025414
Código WOS: WOS:000240238100035
Código Scopus: 33746883960
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 2
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - PHYSICS, FLUIDS & PLASMAS
Impact index in year of publication: 2.438
Journal in the top 25%: Yes
Position of publication: 5
No. of journals in the cat.: 24

Impact source: ISI
Category: Science Edition - PHYSICS, MATHEMATICAL
Impact index in year of publication: 2.438
Journal in the top 25%: Yes
Position of publication: 2
No. of journals in the cat.: 41

Impact source: SCOPUS
Category: Condensed Matter Physics
Impact index in year of publication: 1.266
Journal in the top 25%: Yes
Position of publication: 63
No. of journals in the cat.: 371

Impact source: SCOPUS
Category: Statistical and Nonlinear Physics
Impact index in year of publication: 1.266
Journal in the top 25%: Yes
Position of publication: 9
No. of journals in the cat.: 35

Impact source: SCOPUS
Category: Statistics and Probability
Impact index in year of publication: 1.266
Journal in the top 25%: No
Position of publication: 36
No. of journals in the cat.: 127

Source of citations: SCOPUS
Citations: 14

Source of citations: WOS
Citations: 12

145 Valverde-Millán, Jose Manuel; Castellanos-Mata, Antonio. Effect of vibration on agglomerate particulate fluidization. AICHE JOURNAL. 52 - 5, pp. 1705 - 1714. WILEY, 2006. Available on-line at: <https://doi.org/10.1002/aic.10769>. ISSN 0001-1541, ISSN 1547-5905

DOI: 10.1002/aic.10769
Código WOS: WOS:000237128700006
Código Scopus: 33646381909
Código de Dialnet: ARTREV 1978130
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 2
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 2.153
Journal in the top 25%: Yes
Position of publication: 7
No. of journals in the cat.: 110

Impact source: SCOPUS
Impact index in year of publication: 1.486
Position of publication: 20
Category: Biotechnology
Journal in the top 25%: Yes
No. of journals in the cat.: 162

Impact source: SCOPUS
Impact index in year of publication: 1.486
Position of publication: 11
Category: Chemical Engineering (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 344

Impact source: SCOPUS
Impact index in year of publication: 1.486
Position of publication: 4
Category: Environmental Engineering
Journal in the top 25%: Yes
No. of journals in the cat.: 73

Source of citations: SCOPUS
Citations: 59

Source of citations: WOS
Citations: 54

Source of citations: Dialnet
Citations: 0

146 Sanchez-Quintanilla, Miguel Angel; Valverde-Millán, Jose Manuel; Castellanos-Mata, Antonio. The transitional behaviour of avalanches in cohesive granular materials. Journal of Statistical Mechanics: Theory and Experiment. 7, pp. P07015-1 - P07015-26. Institute of Physics Publishing Ltd., 2006. Available on-line at: <https://doi.org/10.1088/1742-5468/2006/07/P07015>.
DOI: 10.1088/1742-5468/2006/07/P07015
Código WOS: WOS:000239670100011
Código Scopus: 42749106972
Type of production: Scientific paper
Position of signature: 2
Total no. authors: 3
Source of citations: SCOPUS
Citations: 16

Source of citations: WOS
Citations: 16

147 Castellanos-Mata, Antonio; Valverde-Millán, Jose Manuel; Sanchez-Quintanilla, Miguel Angel. Physics of compaction of fine cohesive particles. PHYSICAL REVIEW LETTERS. 94 - 7, pp. 075501. AMER PHYSICAL SOC, 2005. Available on-line at: <https://doi.org/10.1103/PhysRevLett.94.075501>. ISSN 0031-9007, ISSN 1079-7114
DOI: 10.1103/PhysRevLett.94.075501
Handle: 11441/26941
PMID: 15783824
Código WOS: WOS:000227245700035
Código Scopus: 18144413919
Código de Dialnet: ARTREV 1135552
Type of production: Scientific paper
Format: Journal
Position of signature: 2
Total no. authors: 3
Impact source: ISI
Category: Science Edition - PHYSICS, MULTIDISCIPLINARY
Impact index in year of publication: 7.489
Position of publication: 4
Journal in the top 25%: Yes
No. of journals in the cat.: 69

Impact source: SCOPUS
Impact index in year of publication: 4.082
Position of publication: 5
Category: Physics and Astronomy (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 179

Source of citations: SCOPUS
Citations: 53

Source of citations: WOS **Citations:** 46

Source of citations: Dialnet **Citations:** 0

148 Valverde-Millán, Jose Manuel; Perez-Izquierdo, Alberto Tomas; Castellanos-Mata, Antonio; Viturro-,R. Enrique. Rheological testing of xerographic liquid inks: a need for printing technology. APPLIED RHEOLOGY. 14 - 4, pp. 190 - 196. KERSCHENSTEINER VERLAG GMBH, 2004. ISSN 1430-6395, ISSN 1617-8106

Código Scopus: 4544388644
Type of production: Scientific paper **Format:** Journal
Position of signature: 1
Total no. authors: 4

Impact source: SCOPUS **Category:** Condensed Matter Physics
Impact index in year of publication: 0.314 **Journal in the top 25%:** No
Position of publication: 232 **No. of journals in the cat.:** 353

Impact source: SCOPUS **Category:** Materials Science (miscellaneous)
Impact index in year of publication: 0.314 **Journal in the top 25%:** No
Position of publication: 175 **No. of journals in the cat.:** 400

Source of citations: SCOPUS **Citations:** 3

149 Sanchez-Quintanilla, Miguel Angel; Castellanos-Mata, Antonio; Valverde-Millán, Jose Manuel. Granular avalanches: deterministic, correlated and decorrelated dynamics. EPL. 68 - 6, pp. 818 - 824. EPL ASSOCIATION, EUROPEAN PHYSICAL SOCIETY; IOP PUBLISHING LTD, 2004. Available on-line at: <https://doi.org/10.1209/epl/i2004-10283-5>. ISSN 0295-5075, ISSN 1286-4854

DOI: 10.1209/epl/i2004-10283-5
Handle: 11441/62499
Código WOS: WOS:000226508000010
Código Scopus: 10944270272
Type of production: Scientific paper **Format:** Journal
Position of signature: 3
Total no. authors: 3

Impact source: ISI **Category:** Science Edition - PHYSICS, MULTIDISCIPLINARY
Impact index in year of publication: 2.120 **Journal in the top 25%:** Yes
Position of publication: 12 **No. of journals in the cat.:** 67

Impact source: SCOPUS **Category:** Physics and Astronomy (miscellaneous)
Impact index in year of publication: 1.905 **Journal in the top 25%:** Yes
Position of publication: 18 **No. of journals in the cat.:** 173

Source of citations: SCOPUS **Citations:** 3

Source of citations: WOS **Citations:** 3

150 Castellanos-Mata, Antonio; Valverde-Millán, Jose Manuel; Sanchez-Quintanilla, Miguel Angel. The sevilla powder tester: a tool for characterizing and investigating the physical properties of fine cohesive powders. KONA Powder and Particle Journal. 22, pp. 66 - 81. Hosokawa Powder Technology Foundation, 2004. Available on-line at: <https://doi.org/10.14356/kona.2004011>. ISSN 0288-4534, ISSN 2187-5537

DOI: 10.14356/kona.2004011
Handle: 11441/137320
Código Scopus: 84936088728
Type of production: Scientific paper **Format:** Journal

Position of signature: 2
Total no. authors: 3

Impact source: SCOPUS
Impact index in year of publication: 0.169
Position of publication: 179
Category: Chemical Engineering (miscellaneous)
Journal in the top 25%: No
No. of journals in the cat.: 365

Impact source: SCOPUS
Impact index in year of publication: 0.169
Position of publication: 252
Category: Chemistry (miscellaneous)
Journal in the top 25%: No
No. of journals in the cat.: 352

Impact source: SCOPUS
Impact index in year of publication: 0.169
Position of publication: 117
Category: Engineering (miscellaneous)
Journal in the top 25%: No
No. of journals in the cat.: 246

Impact source: SCOPUS
Impact index in year of publication: 0.169
Position of publication: 238
Category: Materials Science (miscellaneous)
Journal in the top 25%: No
No. of journals in the cat.: 400

Source of citations: SCOPUS
Citations: 47

151 Valverde-Millán, Jose Manuel; Sanchez-Quintanilla, Miguel Angel; Castellanos-Mata, Antonio. Jamming threshold of dry fine powders. PHYSICAL REVIEW LETTERS. 92 - 25, pp. 258303-1 - 258303-4. AMER PHYSICAL SOC, 2004. Available on-line at: <https://doi.org/10.1103/PhysRevLett.92.258303>. ISSN 0031-9007, ISSN 1079-7114
DOI: 10.1103/PhysRevLett.92.258303
Handle: 11441/26931
PMID: 15245067
Código WOS: WOS:000222266100083
Código Scopus: 3442893422
Código de Dialnet: ARTREV 944495
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 3
Corresponding author: Yes

Impact source: ISI
Impact index in year of publication: 7.218
Position of publication: 4
Category: Science Edition - PHYSICS, MULTIDISCIPLINARY
Journal in the top 25%: Yes
No. of journals in the cat.: 67

Impact source: SCOPUS
Impact index in year of publication: 3.847
Position of publication: 7
Category: Physics and Astronomy (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 173

Source of citations: SCOPUS
Citations: 68

Source of citations: WOS
Citations: 62

Source of citations: Dialnet
Citations: 0

152 Sanchez-Quintanilla, Miguel Angel; Castellanos-Mata, Antonio; Valverde-Millán, Jose Manuel. Interparticle contact forces in fine cohesive powders: theory and experiment. Proceedings in Applied Mathematics and Mechanics. 3 - 1, pp. 206 - 207. Wiley - V C H Verlag GmbH & Co. KGaA, 2003. Available on-line at: <https://doi.org/10.1002/pamm.200310377>.
DOI: 10.1002/pamm.200310377
Type of production: Scientific paper
Position of signature: 3

Total no. authors: 3

153 Valverde-Millán, Jose Manuel; Castellanos-Mata, Antonio; Sanchez-Quintanilla, Miguel Angel. The memory of granular materials. CONTEMPORARY PHYSICS. 44 - 5, pp. 389 - 399. TAYLOR & FRANCIS LTD, 2003. Available on-line at: <https://doi.org/10.1080/0010751031000155939>. ISSN 0010-7514, ISSN 1366-5812

DOI: 10.1080/0010751031000155939
Código WOS: WOS:000185472700001
Código Scopus: 0142072676
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 3
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - PHYSICS, MULTIDISCIPLINARY
Impact index in year of publication: 1.543
Journal in the top 25%: Yes
Position of publication: 17
No. of journals in the cat.: 68

Impact source: SCOPUS
Category: Physics and Astronomy (miscellaneous)
Impact index in year of publication: 1.927
Journal in the top 25%: Yes
Position of publication: 19
No. of journals in the cat.: 177

Source of citations: SCOPUS
Citations: 31

Source of citations: WOS
Citations: 28

154 Valverde-Millán, Jose Manuel; Castellanos-Mata, Antonio; Mills, P.; Sanchez-Quintanilla, Miguel Angel. Effect of particle size and interparticle force on the fluidization behavior of gas-fluidized beds. PHYSICAL REVIEW E. 67 - 5, pp. 051305-1 - 051305-6. AMER PHYSICAL SOC, 2003. Available on-line at: <https://doi.org/10.1103/PhysRevE.67.051305>. ISSN 2470-0045, ISSN 2470-0053, ISSN 1063-651X, ISSN 1539-3755

DOI: 10.1103/PhysRevE.67.051305
Handle: 11441/26914
PMID: 12786144
Código WOS: WOS:000183482200026
Código Scopus: 85037249126
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 4
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - PHYSICS, FLUIDS & PLASMAS
Impact index in year of publication: 2.202
Journal in the top 25%: Yes
Position of publication: 4
No. of journals in the cat.: 21

Impact source: ISI
Category: Science Edition - PHYSICS, MATHEMATICAL
Impact index in year of publication: 2.202
Journal in the top 25%: Yes
Position of publication: 1
No. of journals in the cat.: 31

Impact source: SCOPUS
Category: Condensed Matter Physics
Impact index in year of publication: 1.366
Journal in the top 25%: Yes
Position of publication: 53
No. of journals in the cat.: 341

Impact source: SCOPUS
Category: Statistical and Nonlinear Physics
Impact index in year of publication: 1.366
Journal in the top 25%: Yes
Position of publication: 8
No. of journals in the cat.: 32

Impact source: SCOPUS
Category: Statistics and Probability
Impact index in year of publication: 1.366
Journal in the top 25%: Yes
Position of publication: 27
No. of journals in the cat.: 113

Source of citations: SCOPUS
Citations: 4

Source of citations: WOS
Citations: 65

155 Valverde, J. M.; Quintanilla, M. A.S.; Castellanos, A.; Mills, P.. Experimental study on the dynamics of gas-fluidized beds. Physical Review E: Statistical, Nonlinear, and Soft Matter Physics. 67 - 1, AMER PHYSICAL SOC, 2003. Available on-line at: <https://doi.org/10.1103/PhysRevE.67.016303>. ISSN 1539-3755, ISSN 1550-2376
DOI: 10.1103/PhysRevE.67.016303
Código WOS: WOS:000181018000055
Código Scopus: 0037718257
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 4
Source of citations: SCOPUS
Citations: 51

Source of citations: WOS
Citations: 45

156 Castellanos-Mata, Antonio; Valverde-Millán, Jose Manuel; Sanchez-Quintanilla, Miguel Angel. Fine cohesive powders in rotating drums: transition from rigid- plastic flow to gas-fluidized regime. PHYSICAL REVIEW E. 65 - 6, pp. 061301. AMER PHYSICAL SOC, 2002. Available on-line at: <https://doi.org/10.1103/PhysRevE.65.061301>. ISSN 2470-0045, ISSN 2470-0053, ISSN 1063-651X, ISSN 1539-3755
DOI: 10.1103/PhysRevE.65.061301
Handle: 11441/26930
PMID: 12188710
Código WOS: WOS:000176762500021
Código Scopus: 37649026794
Type of production: Scientific paper
Format: Journal
Position of signature: 2
Total no. authors: 3

Impact source: ISI
Category: Science Edition - PHYSICS, FLUIDS & PLASMAS
Impact index in year of publication: 2.397
Journal in the top 25%: Yes
Position of publication: 2
No. of journals in the cat.: 20

Impact source: ISI
Category: Science Edition - PHYSICS, MATHEMATICAL
Impact index in year of publication: 2.397
Journal in the top 25%: Yes
Position of publication: 1
No. of journals in the cat.: 29

Impact source: SCOPUS
Category: Condensed Matter Physics
Impact index in year of publication: 1.536
Journal in the top 25%: Yes
Position of publication: 36
No. of journals in the cat.: 333

Impact source: SCOPUS
Category: Statistical and Nonlinear Physics
Impact index in year of publication: 1.536
Journal in the top 25%: Yes
Position of publication: 6
No. of journals in the cat.: 33

Impact source: SCOPUS
Category: Statistics and Probability
Impact index in year of publication: 1.536
Journal in the top 25%: Yes

Position of publication: 18
No. of journals in the cat.: 111

Source of citations: SCOPUS
Citations: 24

Source of citations: WOS
Citations: 32

157 Valverde-Millán, Jose Manuel; Castellanos-Mata, Antonio; Sanchez-Quintanilla, Miguel Angel. Self-diffusion in a gas-fluidized bed of fine powder. PHYSICAL REVIEW LETTERS. 86 - 14, pp. 3020 - 3023. AMER PHYSICAL SOC, 2001. Available on-line at: <https://doi.org/10.1103/PhysRevLett.86.3020>. ISSN 0031-9007, ISSN 1079-7114
DOI: 10.1103/PhysRevLett.86.3020
Handle: 11441/26936
PMID: 11290097
Código WOS: WOS:000167866300027
Código Scopus: 17144452016
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 3
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - PHYSICS, MULTIDISCIPLINARY
Impact index in year of publication: 6.668
Journal in the top 25%: Yes
Position of publication: 4
No. of journals in the cat.: 67

Impact source: SCOPUS
Category: Physics and Astronomy (miscellaneous)
Impact index in year of publication: 5.884
Journal in the top 25%: Yes
Position of publication: 4
No. of journals in the cat.: 178

Source of citations: SCOPUS
Citations: 74

Source of citations: WOS
Citations: 63

158 Watson-,P. Keith; Valverde-Millán, Jose Manuel; Castellanos-Mata, Antonio. The tensile strength and free volume of cohesive powders compressed by gas flow. POWDER TECHNOLOGY. 115 - 1, pp. 45 - 50. ELSEVIER SCIENCE BV; ELSEVIER, 2001. Available on-line at: <https://doi.org/10.1016/S0032-5910(00)00275-8>. ISSN 0032-5910, ISSN 1873-328X
DOI: 10.1016/S0032-5910(00)00275-8
Código WOS: WOS:000167519400006
Código Scopus: 0035820063
Type of production: Scientific paper
Format: Journal
Position of signature: 2
Total no. authors: 3
Impact source: ISI
Category: Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 0.713
Journal in the top 25%: No
Position of publication: 42
No. of journals in the cat.: 123

Impact source: SCOPUS
Category: Chemical Engineering (miscellaneous)
Impact index in year of publication: 1.085
Journal in the top 25%: Yes
Position of publication: 25
No. of journals in the cat.: 352

Source of citations: SCOPUS
Citations: 26

Source of citations: WOS
Citations: 28

159 Castellanos-Mata, Antonio; Valverde-Millán, Jose Manuel; Sanchez-Quintanilla, Miguel Angel. Aggregation and sedimentation in gas-fluidized beds of cohesive powders. PHYSICAL REVIEW E. 64 - 4, pp. 0413041 - 0413047. AMER PHYSICAL SOC, 2001. Available on-line at: <https://doi.org/10.1103/PhysRevE.64.041304>. ISSN 2470-0045, ISSN 2470-0053, ISSN 1063-651X, ISSN 1539-3755

DOI: 10.1103/PhysRevE.64.041304
Handle: 11441/26852
PMID: 11690018
Código WOS: WOS:000171649000020
Código Scopus: 85035306773
Type of production: Scientific paper
Format: Journal
Position of signature: 2
Total no. authors: 3

Impact source: ISI
Category: Science Edition - PHYSICS, FLUIDS & PLASMAS
Impact index in year of publication: 2.235
Journal in the top 25%: Yes
Position of publication: 3
No. of journals in the cat.: 20

Impact source: ISI
Category: Science Edition - PHYSICS, MATHEMATICAL
Impact index in year of publication: 2.235
Journal in the top 25%: Yes
Position of publication: 1
No. of journals in the cat.: 29

Impact source: SCOPUS
Category: Condensed Matter Physics
Impact index in year of publication: 1.904
Journal in the top 25%: Yes
Position of publication: 21
No. of journals in the cat.: 322

Impact source: SCOPUS
Category: Statistical and Nonlinear Physics
Impact index in year of publication: 1.904
Journal in the top 25%: Yes
Position of publication: 5
No. of journals in the cat.: 31

Impact source: SCOPUS
Category: Statistics and Probability
Impact index in year of publication: 1.904
Journal in the top 25%: Yes
Position of publication: 15
No. of journals in the cat.: 108

Source of citations: SCOPUS
Citations: 4

Source of citations: WOS
Citations: 55

160 Quintanilla, MAS; Valverde, JM; Castellanos, A; Viturro, RE. Looking for self-organized critical behavior in avalanches of slightly cohesive powders. PHYSICAL REVIEW LETTERS. 87 - 19, pp. 194301. AMER PHYSICAL SOC, 2001. Available on-line at: <https://doi.org/10.1103/PhysRevLett.87.194301>. ISSN 0031-9007, ISSN 1079-7114

DOI: 10.1103/PhysRevLett.87.194301
Handle: 11441/26932
PMID: 11690413
Código WOS: WOS:000172027200015
Código Scopus: 85038301368
Type of production: Scientific paper
Format: Journal
Position of signature: 2
Total no. authors: 4

Impact source: ISI
Category: Science Edition - PHYSICS, MULTIDISCIPLINARY
Impact index in year of publication: 6.668
Journal in the top 25%: Yes
Position of publication: 4
No. of journals in the cat.: 67

Impact source: SCOPUS
Impact index in year of publication: 5.884
Position of publication: 4
Category: Physics and Astronomy (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 178

Source of citations: SCOPUS
Citations: 1

Source of citations: WOS
Citations: 20

161 Lemaire, E; Merhi, D; Perez, AT; Valverde, JM. Mechanical stresses of a layer of colloidal particles aggregated by means of an electric field. JOURNAL OF ELECTROSTATICS. 53 - 2, pp. 107 - 121. ELSEVIER SCIENCE BV; ELSEVIER, 2001. Available on-line at: <https://doi.org/10.1016/S0304-3886(01)00134-6>. ISSN 0304-3886, ISSN 1873-5738
DOI: 10.1016/S0304-3886(01)00134-6
Código WOS: WOS:000170324600004
Código Scopus: 0035423186
Type of production: Scientific paper
Format: Journal
Position of signature: 4
Total no. authors: 4

Impact source: ISI
Impact index in year of publication: 0.695
Position of publication: 83
Category: Science Edition - ENGINEERING, ELECTRICAL & ELECTRONIC
Journal in the top 25%: No
No. of journals in the cat.: 200

Impact source: SCOPUS
Impact index in year of publication: 0.502
Position of publication: 50
Category: Biotechnology
Journal in the top 25%: No
No. of journals in the cat.: 123

Impact source: SCOPUS
Impact index in year of publication: 0.502
Position of publication: 165
Category: Condensed Matter Physics
Journal in the top 25%: No
No. of journals in the cat.: 322

Impact source: SCOPUS
Impact index in year of publication: 0.502
Position of publication: 149
Category: Electrical and Electronic Engineering
Journal in the top 25%: No
No. of journals in the cat.: 432

Impact source: SCOPUS
Impact index in year of publication: 0.502
Position of publication: 75
Category: Electronic, Optical and Magnetic Materials
Journal in the top 25%: No
No. of journals in the cat.: 146

Impact source: SCOPUS
Impact index in year of publication: 0.502
Position of publication: 39
Category: Surfaces, Coatings and Films
Journal in the top 25%: No
No. of journals in the cat.: 96

Source of citations: SCOPUS
Citations: 5

Source of citations: WOS
Citations: 4

162 Sánchez-Quintanilla, Miguel Ángel; Castellanos-Mata, Antonio; Valverde-Millán, José Manuel. Correlation between bulk stresses and interparticle contact forces in fine powders. PHYSICAL REVIEW E. 64 - 3, pp. 031301/1 - 9. AMER PHYSICAL SOC, 2001. Available on-line at: <https://doi.org/10.1103/PhysRevE.64.031301>. ISSN 2470-0045, ISSN 2470-0053, ISSN 1063-651X, ISSN 1539-3755
DOI: 10.1103/PhysRevE.64.031301
Handle: 11441/26902
PMID: 11580326

Código WOS: WOS:000171136200016
Código Scopus: 0035441958
Type of production: Scientific paper
Format: Journal
Position of signature: 3
Total no. authors: 3

Impact source: ISI
Category: Science Edition - PHYSICS, FLUIDS & PLASMAS
Impact index in year of publication: 2.235
Journal in the top 25%: Yes
Position of publication: 3
No. of journals in the cat.: 20

Impact source: ISI
Category: Science Edition - PHYSICS, MATHEMATICAL
Impact index in year of publication: 2.235
Journal in the top 25%: Yes
Position of publication: 1
No. of journals in the cat.: 29

Impact source: SCOPUS
Category: Condensed Matter Physics
Impact index in year of publication: 1.904
Journal in the top 25%: Yes
Position of publication: 21
No. of journals in the cat.: 322

Impact source: SCOPUS
Category: Statistical and Nonlinear Physics
Impact index in year of publication: 1.904
Journal in the top 25%: Yes
Position of publication: 5
No. of journals in the cat.: 31

Impact source: SCOPUS
Category: Statistics and Probability
Impact index in year of publication: 1.904
Journal in the top 25%: Yes
Position of publication: 15
No. of journals in the cat.: 108

Source of citations: SCOPUS
Citations: 82

Source of citations: WOS
Citations: 66

163 Valverde-Millán, Jose Manuel; Sanchez-Quintanilla, Miguel Angel; Castellanos-Mata, Antonio; Mills, P.. The settling of fine cohesive powders. EPL. 54 - 3, pp. 329 - 334. EPL ASSOCIATION, EUROPEAN PHYSICAL SOCIETY; IOP PUBLISHING LTD, 2001. Available on-line at: <https://doi.org/10.1209/epl/i2001-00246-4>. ISSN 0295-5075, ISSN 1286-4854
DOI: 10.1209/epl/i2001-00246-4
Handle: 11441/62698
Código WOS: WOS:000168283800009
Código Scopus: 0035324746
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 4
Corresponding author: Yes

Impact source: ISI
Category: Science Edition - PHYSICS, MULTIDISCIPLINARY
Impact index in year of publication: 2.256
Journal in the top 25%: Yes
Position of publication: 9
No. of journals in the cat.: 67

Impact source: SCOPUS
Category: Physics and Astronomy (miscellaneous)
Impact index in year of publication: 2.153
Journal in the top 25%: Yes
Position of publication: 15
No. of journals in the cat.: 178

Source of citations: SCOPUS
Citations: 40

Source of citations: WOS
Citations: 36

164 Valverde-Millán, Jose Manuel; Castellanos-Mata, Antonio; Watson-,P. Keith. The effect of particle size on interparticle adhesive forces for small loads. POWDER TECHNOLOGY. 118 - 3, pp. 236 - 241. ELSEVIER SCIENCE BV; ELSEVIER, 2001. Available on-line at: <https://doi.org/10.1016/S0032-5910(00)00382-X>. ISSN 0032-5910, ISSN 1873-328X

DOI: 10.1016/S0032-5910(00)00382-X
Código WOS: WOS:000171636500005
Código Scopus: 0035964445
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 3

Impact source: ISI
Category: Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 0.713
Journal in the top 25%: No
Position of publication: 42
No. of journals in the cat.: 123

Impact source: SCOPUS
Category: Chemical Engineering (miscellaneous)
Impact index in year of publication: 1.085
Journal in the top 25%: Yes
Position of publication: 25
No. of journals in the cat.: 352

Source of citations: SCOPUS
Citations: 16

Source of citations: WOS
Citations: 18

165 Valverde-Millán, Jose Manuel; Castellanos-Mata, Antonio; Sanchez-Quintanilla, Miguel Angel. Effect of vibration on the stability of a gas-fluidized bed of fine powder. PHYSICAL REVIEW E. 64 - 2, pp. 021302/1 - 8. AMER PHYSICAL SOC, 2001. Available on-line at: <https://doi.org/10.1103/PhysRevE.64.021302>. ISSN 2470-0045, ISSN 2470-0053, ISSN 1063-651X, ISSN 1539-3755

DOI: 10.1103/PhysRevE.64.021302
Handle: 11441/26901
PMID: 11497573
Código WOS: WOS:000170492800028
Código Scopus: 85035298233
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 3
Corresponding author: Yes

Impact source: ISI
Category: Science Edition - PHYSICS, FLUIDS & PLASMAS
Impact index in year of publication: 2.235
Journal in the top 25%: Yes
Position of publication: 3
No. of journals in the cat.: 20

Impact source: ISI
Category: Science Edition - PHYSICS, MATHEMATICAL
Impact index in year of publication: 2.235
Journal in the top 25%: Yes
Position of publication: 1
No. of journals in the cat.: 29

Impact source: SCOPUS
Category: Condensed Matter Physics
Impact index in year of publication: 1.904
Journal in the top 25%: Yes
Position of publication: 21
No. of journals in the cat.: 322

Impact source: SCOPUS
Category: Statistical and Nonlinear Physics
Impact index in year of publication: 1.904
Journal in the top 25%: Yes
Position of publication: 5
No. of journals in the cat.: 31

Impact source: SCOPUS
Category: Statistics and Probability
Impact index in year of publication: 1.904
Journal in the top 25%: Yes
Position of publication: 15
No. of journals in the cat.: 108

Source of citations: SCOPUS
Citations: 2

Source of citations: WOS
Citations: 38

166 Valverde Millán, José Manuel; Castellanos Mata, Antonio; Ramos Reyes, Antonio; Pérez Izquierdo, Alberto Tomás; Morgan, Michael A.; Watson, P. Keith. An automated apparatus for measuring the tensile strength and compressibility of fine cohesive powders. REVIEW OF SCIENTIFIC INSTRUMENTS. 71 - 7, pp. 2791 - 2795. AMER INST PHYSICS; AIP Publishing, 2000. Available on-line at: <https://idus.us.es/handle/11441/26942>. ISSN 0034-6748, ISSN 1089-7623

Handle: 11441/26942
Código WOS: WOS:000087906800029
Código Scopus: 0000744534
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 6

Impact source: ISI
Category: Science Edition - INSTRUMENTS & INSTRUMENTATION
Impact index in year of publication: 1.239
Journal in the top 25%: Yes
Position of publication: 5
No. of journals in the cat.: 52

Impact source: ISI
Category: Science Edition - PHYSICS, APPLIED
Impact index in year of publication: 1.239
Journal in the top 25%: No
Position of publication: 18
No. of journals in the cat.: 70

Impact source: SCOPUS
Category: Instrumentation
Impact index in year of publication: 0.921
Journal in the top 25%: Yes
Position of publication: 12
No. of journals in the cat.: 67

Impact source: SCOPUS
Category: Medicine (miscellaneous)
Impact index in year of publication: 0.921
Journal in the top 25%: Yes
Position of publication: 231
No. of journals in the cat.: 2.848

Source of citations: SCOPUS
Citations: 54

Source of citations: WOS
Citations: 53

167 Valverde, JM; Castellanos, A; Ramos, A; Watson, PK. Avalanches in fine, cohesive powders. PHYSICAL REVIEW E. 62 - 5, pp. 6851 - 6860. AMER PHYSICAL SOC, 2000. Available on-line at: <https://doi.org/10.1103/PhysRevE.62.6851>. ISSN 2470-0045, ISSN 2470-0053, ISSN 1063-651X, ISSN 1539-3755

DOI: 10.1103/PhysRevE.62.6851
Handle: 11441/26898
Código WOS: WOS:000165341900021
Código Scopus: 0034316678
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 4

Impact source: ISI
Category: Science Edition - PHYSICS, FLUIDS & PLASMAS
Impact index in year of publication: 2.142
Journal in the top 25%: Yes

Position of publication: 3 — **No. of journals in the cat.:** 19

Impact source: ISI — **Category:** Science Edition - PHYSICS, MATHEMATICAL
Impact index in year of publication: 2.142 — **Journal in the top 25%:** Yes
Position of publication: 2 — **No. of journals in the cat.:** 29

Impact source: SCOPUS — **Category:** Condensed Matter Physics
Impact index in year of publication: 1.851 — **Journal in the top 25%:** Yes
Position of publication: 15 — **No. of journals in the cat.:** 316

Impact source: SCOPUS — **Category:** Statistical and Nonlinear Physics
Impact index in year of publication: 1.851 — **Journal in the top 25%:** Yes
Position of publication: 4 — **No. of journals in the cat.:** 31

Impact source: SCOPUS — **Category:** Statistics and Probability
Impact index in year of publication: 1.851 — **Journal in the top 25%:** Yes
Position of publication: 17 — **No. of journals in the cat.:** 106

Source of citations: SCOPUS — **Citations:** 63

Source of citations: WOS — **Citations:** 53

168 Castellanos Mata, Antonio; Valverde Millán, José Manuel; Pérez Izquierdo, Alberto Tomás. The dynamics of fine powders in a rotating drum. INORGANIC MATERIALS. 35 - 8, pp. 837 - 841. SPRINGER, 1999. ISSN 0020-1685, ISSN 1608-3172
Código WOS: WOS:000081881000021
Código Scopus: 27544485025
Type of production: Scientific paper — **Format:** Journal
Position of signature: 2
Total no. authors: 3

Impact source: ISI — **Category:** Science Edition - MATERIALS SCIENCE
Impact index in year of publication: 0.213 — **Journal in the top 25%:** No
Position of publication: 124 — **No. of journals in the cat.:** 159

Impact source: SCOPUS — **Category:** Chemical Engineering (miscellaneous)
Impact index in year of publication: 0.220 — **Journal in the top 25%:** No
Position of publication: 146 — **No. of journals in the cat.:** 305

Impact source: SCOPUS — **Category:** Inorganic Chemistry
Impact index in year of publication: 0.220 — **Journal in the top 25%:** No
Position of publication: 51 — **No. of journals in the cat.:** 60

Impact source: SCOPUS — **Category:** Materials Chemistry
Impact index in year of publication: 0.220 — **Journal in the top 25%:** No
Position of publication: 138 — **No. of journals in the cat.:** 206

Impact source: SCOPUS — **Category:** Metals and Alloys
Impact index in year of publication: 0.220 — **Journal in the top 25%:** No
Position of publication: 63 — **No. of journals in the cat.:** 148

Source of citations: SCOPUS — **Citations:** 2

Source of citations: WOS — **Citations:** 2

169 Ramos Reyes, Antonio; García García, Francisco J.; Valverde Millán, José M.. On the breakup of slender liquid bridges: Experiments and a 1-D numerical analysis. EUROPEAN JOURNAL OF MECHANICS B-FLUIDS. 18 - 4, pp. 649 - 658. ELSEVIER SCIENCE BV, 1999. Available on-line at: <https://doi.org/10.1016/S0997-7546(99)00109-0>. ISSN 0997-7546, ISSN 1873-7390

DOI: 10.1016/S0997-7546(99)00109-0
Handle: 11441/148004
Código WOS: WOS:000082210300005
Código Scopus: 0001714581
Type of production: Scientific paper
Format: Journal
Position of signature: 3
Total no. authors: 3

Impact source: ISI
Category: Science Edition - MECHANICS
Impact index in year of publication: 0.736
Journal in the top 25%: No
Position of publication: 27
No. of journals in the cat.: 89

Impact source: SCOPUS
Category: Mathematical Physics
Impact index in year of publication: 0.991
Journal in the top 25%: Yes
Position of publication: 9
No. of journals in the cat.: 33

Impact source: SCOPUS
Category: Physics and Astronomy (miscellaneous)
Impact index in year of publication: 0.991
Journal in the top 25%: No
Position of publication: 47
No. of journals in the cat.: 171

Source of citations: SCOPUS
Citations: 14

Source of citations: WOS
Citations: 15

170 Castellanos, A; Valverde, JM; Perez, AT; Ramos, A; Watson, PK. Flow regimes in fine cohesive powders. PHYSICAL REVIEW LETTERS. 82 - 6, pp. 1156 - 1159. AMER PHYSICAL SOC, 1999. Available on-line at: <https://doi.org/10.1103/PhysRevLett.82.1156>. ISSN 0031-9007, ISSN 1079-7114

DOI: 10.1103/PhysRevLett.82.1156
Handle: 11441/26940
Código WOS: WOS:000078458500020
Código Scopus: 0000546468
Type of production: Scientific paper
Format: Journal
Position of signature: 2
Total no. authors: 5

Impact source: ISI
Category: Science Edition - PHYSICS
Impact index in year of publication: 6.095
Journal in the top 25%: Yes
Position of publication: 6
No. of journals in the cat.: 65

Impact source: SCOPUS
Category: Physics and Astronomy (miscellaneous)
Impact index in year of publication: 5.771
Journal in the top 25%: Yes
Position of publication: 4
No. of journals in the cat.: 171

Source of citations: SCOPUS
Citations: 117

Source of citations: WOS
Citations: 103

171 Valverde, JM; Ramos, A; Castellanos, A; Watson, PK. The tensile strength of cohesive powders and its relationship to consolidation, free volume and cohesivity. POWDER TECHNOLOGY. 97 - 3, pp. 237 - 245. ELSEVIER SCIENCE BV; ELSEVIER, 1998. Available on-line at: <https://doi.org/10.1016/S0032-5910(98)00025-4>. ISSN 0032-5910, ISSN 1873-328X

DOI: 10.1016/S0032-5910(98)00025-4

Código WOS: WOS:000074155700007
Código Scopus: 0032127352
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 4
Impact source: ISI
Category: Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 0.606
Journal in the top 25%: No
Position of publication: 37
No. of journals in the cat.: 113
Source of citations: SCOPUS
Citations: 97
Source of citations: WOS
Citations: 87

172 Moreno, H.; Pontiga, F.; Valverde, J. M.. Carbon Dioxide Capture in Fluidized Beds of Nanosilica/Ca(OH)2. ICREEC 2019. pp. 415 - 421. Springer Singapore, 2020. Available on-line at: <https://doi.org/10.1007/978-981-15-5444-5_52>. ISBN 9789811554438
DOI: 10.1007/978-981-15-5444-5_52
Type of production: Book chapter
Format: Book
Position of signature: 3
Degree of contribution: Author or co-author of chapter in book
Total no. authors: 3

173 José Manuel Valverde Millán. Ondas electromagnéticas en medios dieléctricos anisótropos. 2007. ISBN 978-84-8491-847-9
Código de Dialnet: LIB 819758
Type of production: Scientific book or monograph
Format: Book
Position of signature: 1
Degree of contribution: Author or co-author of entire book
Total no. authors: 1
Source of citations: Dialnet
Citations: 0

174 Ortiz, C.; Valverde, J. M.; Chacartegui, R.; Perez-Maqueda, L. A.; Giménez, P.. The Calcium-Looping (CaCO3/CaO) process for thermochemical energy storage in Concentrating Solar Power plants. RENEWABLE & SUSTAINABLE ENERGY REVIEWS. 113, PERGAMON-ELSEVIER SCIENCE LTD; Elsevier BV, 2019. Available on-line at: <https://doi.org/10.1016/j.rser.2019.109252>. ISSN 1364-0321, ISSN 1879-0690
DOI: 10.1016/j.rser.2019.109252
Handle: 11441/87668
Código WOS: WOS:000483422600024
Código Scopus: 85068485695
Type of production: Bibliographic review
Format: Journal
Position of signature: 2
Degree of contribution: Author or co-author of review
Total no. authors: 5
Impact source: ISI
Category: Science Edition - ENERGY & FUELS
Impact index in year of publication: 12.110
Journal in the top 25%: Yes
Position of publication: 7
No. of journals in the cat.: 112
Impact source: ISI
Category: Science Edition - GREEN & SUSTAINABLE SCIENCE & TECHNOLOGY
Impact index in year of publication: 12.110
Journal in the top 25%: Yes
Position of publication: 1
No. of journals in the cat.: 41
Impact source: SCOPUS

Category: Renewable Energy, Sustainability and the Environment
Impact index in year of publication: 3.632
Journal in the top 25%: Yes
Position of publication: 7
No. of journals in the cat.: 225
Source of citations: SCOPUS
Citations: 232
Source of citations: WOS
Citations: 210

175 Bonaventura, D.; Chacartegui, R.; Valverde, J. M.; Becerra, J. A.; Ortiz, C.; Lizana, J.. Dry carbonate process for CO2 capture and storage: Integration with solar thermal power. RENEWABLE & SUSTAINABLE ENERGY REVIEWS. 82, pp. 1796 - 1812. PERGAMON-ELSEVIER SCIENCE LTD; Elsevier BV, 2018. Available on-line at: <https://doi.org/10.1016/j.rser.2017.06.061>. ISSN 1364-0321, ISSN 1879-0690
DOI: 10.1016/j.rser.2017.06.061
Handle: 11441/69766
Código WOS: WOS:000423371300011
Código Scopus: 85021408017
Type of production: Bibliographic review
Format: Journal
Position of signature: 3
Degree of contribution: Author or co-author of review
Total no. authors: 6
Impact source: ISI
Category: Science Edition - ENERGY & FUELS
Impact index in year of publication: 10.556
Journal in the top 25%: Yes
Position of publication: 7
No. of journals in the cat.: 103
Impact source: ISI
Category: Science Edition - GREEN & SUSTAINABLE SCIENCE & TECHNOLOGY
Impact index in year of publication: 10.556
Journal in the top 25%: Yes
Position of publication: 1
No. of journals in the cat.: 35
Impact source: SCOPUS
Category: Renewable Energy, Sustainability and the Environment
Impact index in year of publication: 3.288
Journal in the top 25%: Yes
Position of publication: 8
No. of journals in the cat.: 193
Source of citations: SCOPUS
Citations: 41
Source of citations: WOS
Citations: 37

176 Valverde, JMThe Ca-looping process for CO2 capture and energy storage: role of nanoparticle technology. JOURNAL OF NANOPARTICLE RESEARCH. 20 - 2, pp. 1 - 16. SPRINGER, 2018. Available on-line at: <https://doi.org/10.1007/s11051-017-4092-3>. ISSN 1388-0764, ISSN 1572-896X
DOI: 10.1007/s11051-017-4092-3
Código WOS: WOS:000424810300001
Código Scopus: 85055810779
Type of production: Bibliographic review
Format: Journal
Position of signature: 1
Degree of contribution: Author or co-author of review
Total no. authors: 1
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - CHEMISTRY, MULTIDISCIPLINARY
Impact index in year of publication: 2.009
Journal in the top 25%: No
Position of publication: 97
No. of journals in the cat.: 172
Impact source: ISI
Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Impact index in year of publication: 2.009
Position of publication: 162
Journal in the top 25%: No
No. of journals in the cat.: 293

Impact source: ISI
Category: Science Edition - NANOSCIENCE & NANOTECHNOLOGY
Impact index in year of publication: 2.009
Position of publication: 64
Journal in the top 25%: No
No. of journals in the cat.: 94

Impact source: SCOPUS
Impact index in year of publication: 0.479
Position of publication: 75
Category: Atomic and Molecular Physics, and Optics
Journal in the top 25%: No
No. of journals in the cat.: 190

Impact source: SCOPUS
Impact index in year of publication: 0.479
Position of publication: 79
Category: Bioengineering
Journal in the top 25%: No
No. of journals in the cat.: 165

Impact source: SCOPUS
Impact index in year of publication: 0.479
Position of publication: 154
Category: Chemistry (miscellaneous)
Journal in the top 25%: No
No. of journals in the cat.: 458

Impact source: SCOPUS
Impact index in year of publication: 0.479
Position of publication: 189
Category: Condensed Matter Physics
Journal in the top 25%: No
No. of journals in the cat.: 426

Impact source: SCOPUS
Impact index in year of publication: 0.479
Position of publication: 216
Category: Materials Science (miscellaneous)
Journal in the top 25%: No
No. of journals in the cat.: 608

Impact source: SCOPUS
Impact index in year of publication: 0.479
Position of publication: 116
Category: Modelling and Simulation
Journal in the top 25%: No
No. of journals in the cat.: 289

Impact source: SCOPUS
Impact index in year of publication: 0.479
Position of publication: 43
Category: Nanoscience and Nanotechnology
Journal in the top 25%: No
No. of journals in the cat.: 88

Source of citations: SCOPUS
Citations: 25

Source of citations: WOS
Citations: 24

177 Lizana, Jesús; Chacartegui, Ricardo; Barrios-Padura, Angela; Valverde, José Manuel. Advances in thermal energy storage materials and their applications towards zero energy buildings: A critical review. APPLIED ENERGY. 203, pp. 219 - 239. ELSEVIER SCI LTD; Elsevier BV, 2017. Available on-line at: <https://doi.org/10.1016/j.apenergy.2017.06.008>. ISSN 0306-2619, ISSN 1872-9118
DOI: 10.1016/j.apenergy.2017.06.008
Handle: 11441/69837
Código WOS: WOS:000412379300017
Código Scopus: 85020879048
Type of production: Bibliographic review
Format: Journal
Position of signature: 4
Degree of contribution: Author or co-author of review
Total no. authors: 4
Corresponding author: Yes

Impact source: ISI
Category: Science Edition - ENERGY & FUELS
Impact index in year of publication: 7.900
Position of publication: 8
Journal in the top 25%: Yes
No. of journals in the cat.: 97

Impact source: ISI
Impact index in year of publication: 7.900
Position of publication: 4
Category: Science Edition - ENGINEERING, CHEMICAL
Journal in the top 25%: Yes
No. of journals in the cat.: 137

Impact source: SCOPUS
Impact index in year of publication: 3.162
Position of publication: 2
Category: Building and Construction
Journal in the top 25%: Yes
No. of journals in the cat.: 184

Impact source: SCOPUS
Impact index in year of publication: 3.162
Position of publication: 2
Category: Civil and Structural Engineering
Journal in the top 25%: Yes
No. of journals in the cat.: 275

Impact source: SCOPUS
Impact index in year of publication: 3.162
Position of publication: 2
Category: Energy (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 110

Impact source: SCOPUS
Impact index in year of publication: 3.162
Position of publication: 5
Category: Energy Engineering and Power Technology
Journal in the top 25%: Yes
No. of journals in the cat.: 189

Impact source: SCOPUS
Impact index in year of publication: 3.162
Position of publication: 4
Category: Fuel Technology
Journal in the top 25%: Yes
No. of journals in the cat.: 88

Impact source: SCOPUS
Impact index in year of publication: 3.162
Position of publication: 4
Category: Management, Monitoring, Policy and Law
Journal in the top 25%: Yes
No. of journals in the cat.: 330

Impact source: SCOPUS
Impact index in year of publication: 3.162
Position of publication: 9
Category: Mechanical Engineering
Journal in the top 25%: Yes
No. of journals in the cat.: 606

Impact source: SCOPUS
Impact index in year of publication: 3.162
Position of publication: 2
Category: Nuclear Energy and Engineering
Journal in the top 25%: Yes
No. of journals in the cat.: 58

Source of citations: SCOPUS
Citations: 306

Source of citations: WOS
Citations: 274

178 Perejón, Antonio; Romeo, Luis M.; Lara, Yolanda; Lisbona, Pilar; Martínez, Ana; Valverde, Jose Manuel. The Calcium-Looping technology for CO2 capture: On the important roles of energy integration and sorbent behavior. APPLIED ENERGY. 162, pp. 787 - 807. ELSEVIER SCI LTD; Elsevier BV, 2016. Available on-line at: <https://doi.org/10.1016/j.apenergy.2015.10.121>. ISSN 0306-2619, ISSN 1872-9118

DOI: 10.1016/j.apenergy.2015.10.121
Handle: 11441/138442
Código WOS: WOS:000367631000071
Código Scopus: 84946594355
Type of production: Bibliographic review
Format: Journal
Position of signature: 6
Degree of contribution: Author or co-author of review
Total no. authors: 6
Corresponding author: Yes

Impact source: ISI
Impact index in year of publication: 7.182
Position of publication: 6
Category: Science Edition - ENERGY & FUELS
Journal in the top 25%: Yes
No. of journals in the cat.: 92

Impact source: ISI
Category: Science Edition - ENGINEERING, CHEMICAL
Impact index in year of publication: 7.182
Journal in the top 25%: Yes
Position of publication: 4
No. of journals in the cat.: 135

Impact source: SCOPUS
Category: Building and Construction
Impact index in year of publication: 3.011
Journal in the top 25%: Yes
Position of publication: 2
No. of journals in the cat.: 186

Impact source: SCOPUS
Category: Civil and Structural Engineering
Impact index in year of publication: 3.011
Journal in the top 25%: Yes
Position of publication: 1
No. of journals in the cat.: 272

Impact source: SCOPUS
Category: Energy (miscellaneous)
Impact index in year of publication: 3.011
Journal in the top 25%: Yes
Position of publication: 1
No. of journals in the cat.: 107

Impact source: SCOPUS
Category: Energy Engineering and Power Technology
Impact index in year of publication: 3.011
Journal in the top 25%: Yes
Position of publication: 4
No. of journals in the cat.: 188

Impact source: SCOPUS
Category: Fuel Technology
Impact index in year of publication: 3.011
Journal in the top 25%: Yes
Position of publication: 2
No. of journals in the cat.: 87

Impact source: SCOPUS
Category: Management, Monitoring, Policy and Law
Impact index in year of publication: 3.011
Journal in the top 25%: Yes
Position of publication: 4
No. of journals in the cat.: 316

Impact source: SCOPUS
Category: Mechanical Engineering
Impact index in year of publication: 3.011
Journal in the top 25%: Yes
Position of publication: 8
No. of journals in the cat.: 606

Impact source: SCOPUS
Category: Nuclear Energy and Engineering
Impact index in year of publication: 3.011
Journal in the top 25%: Yes
Position of publication: 2
No. of journals in the cat.: 58

Source of citations: SCOPUS
Citations: 328

Source of citations: WOS
Citations: 292

179 Valverde, J. M.; Durán-Olivencia, F. J.. Acoustic streaming in pulsating flows through porous media. RIVISTA DEL NUOVO CIMENTO. 37 - 11, pp. 591 - 619. SOC ITALIANA FISICA, 2014. Available on-line at: <https://doi.org/10.1393/ncr/i2014-10106-6>. ISSN 0393-697X, ISSN 1826-9850

DOI: 10.1393/ncr/i2014-10106-6
Código WOS: WOS:000346220900001
Código Scopus: 84910114099
Type of production: Bibliographic review
Format: Journal
Position of signature: 1
Degree of contribution: Author or co-author of review
Total no. authors: 2
Corresponding author: Yes

Impact source: ISI
Category: Science Edition - PHYSICS, MULTIDISCIPLINARY
Impact index in year of publication: 2.261
Journal in the top 25%: Yes
Position of publication: 18
No. of journals in the cat.: 78

Impact source: SCOPUS
Impact index in year of publication: 1.503
Position of publication: 23
Category: Physics and Astronomy (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 261

Source of citations: SCOPUS
Citations: 6

Source of citations: WOS
Citations: 6

180 van Ommen, J. Ruud; Valverde, Jose Manuel; Pfeffer, Robert. Fluidization of nanopowders: A review. JOURNAL OF NANOPARTICLE RESEARCH. 14 - 3, SPRINGER, 2012. Available on-line at: <https://doi.org/10.1007/s11051-012-0737-4>. ISSN 1388-0764, ISSN 1572-896X
DOI: 10.1007/s11051-012-0737-4
Handle: 11441/78698
Código WOS: WOS:000302639600015
Código Scopus: 84856597085
Type of production: Bibliographic review
Format: Journal
Position of signature: 2
Degree of contribution: Author or co-author of review
Total no. authors: 3

Impact source: ISI
Impact index in year of publication: 2.175
Position of publication: 53
Category: Science Edition - CHEMISTRY, MULTIDISCIPLINARY
Journal in the top 25%: No
No. of journals in the cat.: 152

Impact source: ISI
Impact index in year of publication: 2.175
Position of publication: 57
Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
Journal in the top 25%: Yes
No. of journals in the cat.: 241

Impact source: ISI
Impact index in year of publication: 2.175
Position of publication: 31
Category: Science Edition - NANOSCIENCE & NANOTECHNOLOGY
Journal in the top 25%: No
No. of journals in the cat.: 69

Impact source: SCOPUS
Impact index in year of publication: 0.855
Position of publication: 37
Category: Atomic and Molecular Physics, and Optics
Journal in the top 25%: Yes
No. of journals in the cat.: 163

Impact source: SCOPUS
Impact index in year of publication: 0.855
Position of publication: 46
Category: Bioengineering
Journal in the top 25%: No
No. of journals in the cat.: 135

Impact source: SCOPUS
Impact index in year of publication: 0.855
Position of publication: 93
Category: Chemistry (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 431

Impact source: SCOPUS
Impact index in year of publication: 0.855
Position of publication: 116
Category: Condensed Matter Physics
Journal in the top 25%: No
No. of journals in the cat.: 411

Impact source: SCOPUS
Impact index in year of publication: 0.855
Position of publication: 106
Category: Materials Science (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 534

Impact source: SCOPUS
Impact index in year of publication: 0.855
Category: Modelling and Simulation
Journal in the top 25%: Yes

Position of publication: 51
No. of journals in the cat.: 225

Impact source: SCOPUS
Category: Nanoscience and Nanotechnology
Impact index in year of publication: 0.855
Journal in the top 25%: No
Position of publication: 38
No. of journals in the cat.: 93

Source of citations: SCOPUS
Citations: 203

Source of citations: WOS
Citations: 188

181 Valverde, Jose Manuel; Medina, Santiago. Erratum: Correction: Limestone calcination under calcium-looping conditions for CO2 capture and thermochemical energy storage in the presence of H2O: an in situ XRD analysis (Physical chemistry chemical physics : PCCP (2017) 19 11 (7587-7596)). PHYSICAL CHEMISTRY CHEMICAL PHYSICS. 21 - 43, pp. 24240 - 24240. ROYAL SOC CHEMISTRY, 2019. Available on-line at: <https://doi.org/10.1039/c9cp90262g>. ISSN 1463-9076, ISSN 1463-9084

DOI: 10.1039/c9cp90262g
PMID: 31657398
Código WOS: WOS:000496151800042
Código Scopus: 85074676158
Type of production: Corrección
Format: Journal
Position of signature: 1
Total no. authors: 2
Corresponding author: Yes

Impact source: ISI
Category: Science Edition - CHEMISTRY, PHYSICAL
Impact index in year of publication: 3.430
Journal in the top 25%: No
Position of publication: 66
No. of journals in the cat.: 159

Impact source: ISI
Category: Science Edition - PHYSICS, ATOMIC, MOLECULAR & CHEMICAL
Impact index in year of publication: 3.430
Journal in the top 25%: Yes
Position of publication: 8
No. of journals in the cat.: 37

Impact source: SCOPUS
Category: Physical and Theoretical Chemistry
Impact index in year of publication: 1.143
Journal in the top 25%: Yes
Position of publication: 27
No. of journals in the cat.: 188

Impact source: SCOPUS
Category: Physics and Astronomy (miscellaneous)
Impact index in year of publication: 1.143
Journal in the top 25%: Yes
Position of publication: 42
No. of journals in the cat.: 317

Source of citations: SCOPUS
Citations: 1

Source of citations: WOS
Citations: 1

182 Bonaventura, D.; Chacartegui, R.; Valverde, J. M.; Becerra, J. A.; Verda, V.. Carbon capture and utilization for sodium bicarbonate production assisted by solar thermal power (vol 149, pg 860, 2017). ENERGY CONVERSION AND MANAGEMENT. 157, pp. 656 - 656. PERGAMON-ELSEVIER SCIENCE LTD, 2018. Available on-line at: <https://doi.org/10.1016/j.enconman.2017.12.065>. ISSN 0196-8904, ISSN 1879-2227

DOI: 10.1016/j.enconman.2017.12.065
Código WOS: WOS:000425198700056
Código Scopus: 85044515011
Type of production: Corrección
Format: Journal
Position of signature: 3
Total no. authors: 5

Impact source: ISI
Category: Science Edition - ENERGY & FUELS

Impact index in year of publication: 7.181
Position of publication: 12
Journal in the top 25%: Yes
No. of journals in the cat.: 103

Impact source: ISI
Impact index in year of publication: 7.181
Position of publication: 3
Category: Science Edition - MECHANICS
Journal in the top 25%: Yes
No. of journals in the cat.: 134

Impact source: ISI
Impact index in year of publication: 7.181
Position of publication: 2
Category: Science Edition - THERMODYNAMICS
Journal in the top 25%: Yes
No. of journals in the cat.: 60

Impact source: SCOPUS
Impact index in year of publication: 2.730
Position of publication: 6
Category: Energy Engineering and Power Technology
Journal in the top 25%: Yes
No. of journals in the cat.: 234

Impact source: SCOPUS
Impact index in year of publication: 2.730
Position of publication: 4
Category: Fuel Technology
Journal in the top 25%: Yes
No. of journals in the cat.: 104

Impact source: SCOPUS
Impact index in year of publication: 2.730
Position of publication: 2
Category: Nuclear Energy and Engineering
Journal in the top 25%: Yes
No. of journals in the cat.: 66

Impact source: SCOPUS
Impact index in year of publication: 2.730
Position of publication: 12
Category: Renewable Energy, Sustainability and the Environment
Journal in the top 25%: Yes
No. of journals in the cat.: 193

Source of citations: SCOPUS
Citations: 0

Source of citations: WOS
Citations: 0

Works submitted to national or international conferences

1 **Title of the work:** Solar-driven indirect calcination for thermochemical energy storage
Type of event: Conference
Ortiz Dominguez, Carlos; Valverde Garcia, Juan Sebastian; Tejada, Carlos; Carro Paulete, Andres; Chacartegui Ramírez, Ricardo; Valverde Millán, José Manuel; Pérez Maqueda, Luis. "Solar-driven indirect calcination for thermochemical energy storage". En: AIP Conference Proceedings. 2445, AMER INST PHYSICS; AIP; AIP Publishing, 2022. Available on-line at: <https://doi.org/10.1063/5.0085705>. ISSN 0094-243X, ISSN 1551-7616
DOI: 10.1063/5.0085705
Código WOS: WOS:000861996900034
Código Scopus: 85131191639

2 **Title of the work:** Off-design model of concentrating solar power plant with thermochemical energy storage based on calcium-looping
Type of event: Conference
Ortiz, Carlos; Binotti, Marco; Romano, Matteo C.; Valverde, José Manuel; Chacartegui, Ricardo. "Off-design model of concentrating solar power plant with thermochemical energy storage based on calcium-looping". En: SOLARPACES 2018: INTERNATIONAL CONFERENCE ON CONCENTRATING SOLAR POWER AND CHEMICAL ENERGY SYSTEMS. 2126, AMER INST PHYSICS, 2019. Available on-line at: <https://doi.org/10.1063/1.5117755>. ISBN 978-0-7354-1866-0
DOI: 10.1063/1.5117755

Handle: 11441/106523
Código WOS: WOS:000554428500247
Código Scopus: 85070637735

3 **Title of the work:** Effect of radiant properties and heat transfer mechanisms on the thermal performance of a Calcium Looping carbonator reactor
Type of event: Conference
Giménez, Pau; Ortiz, Carlos; Chacartegui, Ricardo; Valverde, José Manuel. "Effect of radiant properties and heat transfer mechanisms on the thermal performance of a Calcium Looping carbonator reactor". En: ECOS 2019 - Proceedings of the 32nd International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems. 2019-June, pp. 4331 - 4344. 2019. ISBN 9788361506515
Código Scopus: 85083218653

4 **Title of the work:** Almacenamiento termoquímico en plantas CSP basado en calcium-looping: retos y oportunidades
Type of event: Conference
Ortiz Domínguez, Carlos; Fernández, Reyes; Chacartegui, Ricardo; Valverde Millán, José Manuel; Becerra Villanueva, José Antonio. "Almacenamiento termoquímico en plantas CSP basado en calcium-looping: retos y oportunidades". En: CIES 2018: XVI Congreso Ibérico y XII Congreso Iberoamericano de Energía Solar: Libro de Actas (2018). pp. 323 - 330. 2018. Available on-line at: <https://idus.us.es/handle/11441/89895>. ISBN 978-84-86913-14-4
Handle: 11441/89895

5 **Title of the work:** Simulation of biomass gasification in a downdraft fixed bed using Aspen: Optimal operation conditions and influence of biomass type
Type of event: Conference
López-García, Elisa; Chacartegui, Ricardo; Palomo-Guerrero, Francisco J.; Becerra, José A.; Valverde, José M."Simulation of biomass gasification in a downdraft fixed bed using Aspen: Optimal operation conditions and influence of biomass type". En: ECOS 2018 - Proceedings of the 31st International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems. University of Minho, 2018. ISBN 9789729959646
Código Scopus: 85064171289

6 **Title of the work:** The ammonia looping system for mid-temperature thcrmoehcmical energy storage
Type of event: Conference
Masci, G.; Ortiz, C.; Chacartegui, R.; Vcrda, V.; Valverde, J. M."The ammonia looping system for mid-temperature thcrmoehcmical energy storage". En: 23rd International Congress of Chemical and Process Engineering, CHISA 2018 and 21st Conference on Process Integration, Modelling and Optimisation for Energy Saving and Pollution Reduction, PRES 2018. 2, pp. 961 - 962. 2018. ISBN 9781510881198
Código Scopus: 85085046543

7 **Title of the work:** Thermochemical Energy Storage for enhancing dispatchability of Solar Photovoltaics
Type of event: Conference
Fernández Navarro, Reyes; Ortiz Domínguez, Carlos; Chacartegui, Ricardo; Valverde Millán, José Manuel; Becerra Villanueva, José Antonio. "Thermochemical Energy Storage for enhancing dispatchability of Solar Photovoltaics". En: Conference on Sustainable Development of Energy, Water and Environment systems (2018),. 2018. Available on-line at: <https://idus.us.es/handle/11441/102006>.
Handle: 11441/102006

8 **Title of the work:** Enhancement of CO2 capture in limestone and dolomite granular beds by high intensity sound waves
Type of event: Conference

Valverde, Jose Manuel; Perez-Ebri, Jose Manuel; Sanchez-Quintanilla, Miguel Angel. "Enhancement of CO2 capture in limestone and dolomite granular beds by high intensity sound waves". En: EPJ Web of Conferences. 140, E D P SCIENCES, 2017. Available on-line at: <https://doi.org/10.1051/epjconf/201714014001>. ISSN 2100-014X, ISSN 2101-6275
DOI: 10.1051/epjconf/201714014001
Handle: 11441/69834
Código Scopus: 85024129671

9 **Title of the work:** Dynamical weakening of pyroclastic flows by mechanical vibrations
Type of event: Conference
Valverde, Jose Manuel; Soria-Hoyo, Carlos; Roche, Olivier. "Dynamical weakening of pyroclastic flows by mechanical vibrations". En: EPJ Web of Conferences. 140, E D P SCIENCES, 2017. Available on-line at: <https://doi.org/10.1051/epjconf/201714012001>. ISSN 2100-014X, ISSN 2101-6275
DOI: 10.1051/epjconf/201714012001
Handle: 11441/69773
Código Scopus: 85024122689

10 **Title of the work:** Effect of crystallinity on cao conversion of natural limestone in carbonation/recarbonation/calcination cycles
Type of event: Conference
Valverde, J. M.; Sanchez-Jimenez, P. E.; Perez-Maqueda, L. A.; Quintanilla, M. A.S.; Perez-Vaquero, J."Effect of crystallinity on cao conversion of natural limestone in carbonation/recarbonation/calcination cycles". En: 21st International Congress of Chemical and Process Engineering, CHISA 2014 and 17th Conference on Process Integration, Modelling and Optimisation for Energy Saving and Pollution Reduction, PRES 2014. 2, pp. 1019 - 1031. 2014. ISBN 9781510828131
Código Scopus: 85009874583

11 **Title of the work:** Enhancement of CO2 capture capacity by a fine cohesive powder
Type of event: Conference
Valverde Millán, José Manuel; Perejon Pazo, Antonio; Pérez Maqueda, Luis Allan; Duran, F. J.; Pontiga Romero, Francisco; Soria del Hoyo, Carlos; Sánchez Quintanilla, Miguel Ángel; Moreno González, Helena; Espín Milla, Manuel Jesús. "Enhancement of CO2 capture capacity by a fine cohesive powder". En: CHISA 2012 - 20th International Congress of Chemical and Process Engineering and PRES 2012 - 15th Conference PRES. 2012.
Código Scopus: 84874883008

12 **Title of the work:** Mechanical strength of Ca-based CO2 adsorbent powders as assessed by laser diffractometry
Type of event: Conference
Valverde, J. M.; Quintanilla, M. A.S.; Espin, M. J."Mechanical strength of Ca-based CO2 adsorbent powders as assessed by laser diffractometry". En: CHISA 2012 - 20th International Congress of Chemical and Process Engineering and PRES 2012 - 15th Conference PRES. 2012.
Código Scopus: 84874850630

13 **Title of the work:** Nanofluidization as affected by vibration and electrostatic fields
Type of event: Conference
Lepek, Daniel; Pfeffer, Robert; Dave, Rajesh; Quintanilla, Miguel Angel Sanchez; Valverde, Jose Manuel; Castellanos, Antonio. "Nanofluidization as affected by vibration and electrostatic fields". En: AIChE Annual Meeting, Conference Proceedings. 2008. ISBN 9780816910236
Código Scopus: 79952287149

14 **Title of the work:** Agglomerate shrinkage and bubbling stimulation on vibrated APF beds
Type of event: Conference
Valverde, J. M.; Castellanos, A.; Quintanilla, M. A.S."Agglomerate shrinkage and bubbling stimulation on vibrated APF beds". En: AIChE Annual Meeting, Conference Proceedings. 2006. ISBN 9780816910236
Código Scopus: 56749163485

15 **Title of the work:** The effect of gas viscosity on the agglomerate particulate fluidization state of fine and ultrafine particles
Type of event: Conference
Valverde, Jose Manuel; Castellanos, Antonio; Lepek, Daniel; Quevedo, Jose; Omosebi, Ayokunle; Pfeffer, Robert; Dave, Rajesh N."The effect of gas viscosity on the agglomerate particulate fluidization state of fine and ultrafine particles". En: AIChE Annual Meeting, Conference Proceedings. 2006. ISBN 9780816910236
Código Scopus: 56749160212

16 **Title of the work:** Cross-over from deterministic to decorrelated behavior in avalanches of granular materials
Type of event: Conference
Quintanilla, M. A.S.; Valverde, J. M.; Castellanos, A."Cross-over from deterministic to decorrelated behavior in avalanches of granular materials". En: Powders and Grains 2005 - Proceedings of the 5th International Conference on Micromechanics of Granular Media. 2, pp. 811 - 815. 2005. ISBN 0415383471, ISBN 9780415383479
Código Scopus: 84857588555

17 **Title of the work:** The packing of fine and cohesive irregular particles
Type of event: Conference
Castellanos, A.; Valverde, J. M.; Quintanilla, M. A.S."The packing of fine and cohesive irregular particles". En: Powders and Grains 2005 - Proceedings of the 5th International Conference on Micromechanics of Granular Media. 1, pp. 369 - 372. 2005. ISBN 0415383471, ISBN 9780415383479
Código Scopus: 84857530793

18 **Title of the work:** Structure and stability of gas-fluidized beds of fine particles
Type of event: Conference
Valverde, J. M.; Castellanos, A.; Quintanilla, M. A.S."Structure and stability of gas-fluidized beds of fine particles". En: Powders and Grains 2005 - Proceedings of the 5th International Conference on Micromechanics of Granular Media. 2, pp. 1015 - 1019. 2005. ISBN 0415383471, ISBN 9780415383479
Código Scopus: 84857560706

19 **Title of the work:** Looking for memory in the behavior of granular materials by means of the Hurst analysis
Type of event: Conference
Valverde, J. M.; Castellanos, A.; Quintanilla, M. A.S."Looking for memory in the behavior of granular materials by means of the Hurst analysis". En: Powders and Grains 2005 - Proceedings of the 5th International Conference on Micromechanics of Granular Media. 2, pp. 817 - 821. 2005. ISBN 0415383471, ISBN 9780415383479
Código Scopus: 84857511914

20 **Title of the work:** Behavior of adhesion between loaded fine particles with controlled surface additives
Type of event: Conference
Quintanilla, M. A.S.; Castellanos, A.; Valverde, J. M."Behavior of adhesion between loaded fine particles with controlled surface additives". En: Powders and Grains 2005 - Proceedings of the 5th International Conference on Micromechanics of Granular Media. 1, pp. 487 - 491. 2005. ISBN 0415383471, ISBN 9780415383479
Código Scopus: 84857539045

Works submitted to national or international seminars, workshops and/or courses

1 **Title of the work:** Particle structuring and yield stress in magnetofluidized beds
Corresponding author: Yes
Valverde, J. M.; Espin, M. J.; Quintanilla, M. A.S.; Castellanos, A.. "Particle structuring and yield stress in magnetofluidized beds". En: POROUS MEDIA AND ITS APPLICATIONS IN SCIENCE, ENGINEERING AND INDUSTRY. 1254. AMER INST PHYSICS, 2010, pp. 33. Available on-line at: <https://doi.org/10.1063/1.3453834>. ISBN 978-0-7354-0803-6
DOI: 10.1063/1.3453834
Código WOS: WOS:000282998600006
Código Scopus: 77954617682

2 **Title of the work:** Cohesion and internal friction of fine glass beads as affected by small intensity vertical vibration
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Corresponding author: Yes
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Corresponding author: Yes
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Corresponding author: Yes
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Corresponding author: Yes
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