

Piero Salatino

List of Publications by Year in descending order

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268
papers

7,542
citations

50276

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106344

65
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279
all docs

279
docs citations

279
times ranked

5121
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | DarkSide-20k: A 20 tonne two-phase LAr TPC for direct dark matter detection at LNGS. <i>European Physical Journal Plus</i> , 2018, 133, 1. | 2.6 | 247 |
| 2 | Comminution of carbons in fluidized bed combustion. <i>Progress in Energy and Combustion Science</i> , 1991, 17, 297-326. | 31.2 | 125 |
| 3 | Advances in photobioreactors for intensive microalgal production: configurations, operating strategies and applications. <i>Journal of Chemical Technology and Biotechnology</i> , 2014, 89, 178-195. | 3.2 | 124 |
| 4 | Attrition of sorbents during fluidized bed calcination and sulphation. <i>Powder Technology</i> , 2000, 107, 153-167. | 4.2 | 116 |
| 5 | Microstructural changes and loss of gasification reactivity of chars upon heat treatment. <i>Fuel</i> , 1998, 77, 1483-1493. | 6.4 | 110 |
| 6 | Transient fluidization and segregation of binary mixtures of particles. <i>AIChE Journal</i> , 2000, 46, 2175-2182. | 3.6 | 108 |
| 7 | Comminution of limestone during batch fluidized-bed calcination and sulfation. <i>AIChE Journal</i> , 1997, 43, 363-373. | 3.6 | 107 |
| 8 | Segregation of fluidized binary mixtures of granular solids. <i>AIChE Journal</i> , 2004, 50, 3095-3106. | 3.6 | 106 |
| 9 | The relevance of thermal annealing to the evolution of coal char gasification reactivity. <i>Carbon</i> , 1997, 35, 141-151. | 10.3 | 105 |
| 10 | A fast heating-rate thermogravimetric study of the pyrolysis of scrap tyres. <i>Fuel</i> , 1999, 78, 1575-1581. | 6.4 | 103 |
| 11 | Self-segregation of high-volatile fuel particles during devolatilization in a fluidized bed reactor. <i>Powder Technology</i> , 2002, 128, 11-21. | 4.2 | 88 |
| 12 | Probing the chemical nature of surface oxides during coal char oxidation by high-resolution XPS. <i>Carbon</i> , 2015, 90, 181-196. | 10.3 | 88 |
| 13 | Modelling fluidized bed combustion of high-volatile solid fuels. <i>Chemical Engineering Science</i> , 2002, 57, 1175-1196. | 3.8 | 87 |
| 14 | Combustion and Attrition of Biomass Chars in a Fluidized Bed. <i>Energy & Fuels</i> , 2006, 20, 91-102. | 5.1 | 87 |
| 15 | Attrition of Limestone by Impact Loading in Fluidized Beds. <i>Energy & Fuels</i> , 2007, 21, 2566-2572. | 5.1 | 84 |
| 16 | A Thermogravimetric Study of Nonfossil Solid Fuels. 2. Oxidative Pyrolysis and Char Combustion. <i>Energy & Fuels</i> , 2002, 16, 661-668. | 5.1 | 83 |
| 17 | Gasification of a coal char by oxygen and carbon dioxide. <i>Carbon</i> , 1998, 36, 443-452. | 10.3 | 75 |
| 18 | Post-combustion carbon capture mediated by carbonic anhydrase. <i>Separation and Purification Technology</i> , 2013, 107, 331-339. | 7.9 | 75 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Oxidative pyrolysis of solid fuels. <i>Journal of Analytical and Applied Pyrolysis</i> , 2004, 71, 959-970. | 5.5 | 73 |
| 20 | Segregation of fuel particles and volatile matter during devolatilization in a fluidized bed reactor II. Experimental. <i>Chemical Engineering Science</i> , 1997, 52, 1909-1922. | 3.8 | 70 |
| 21 | Fluidized bed combustion of pelletized biomass and waste-derived fuels. <i>Combustion and Flame</i> , 2008, 155, 21-36. | 5.2 | 69 |
| 22 | Butanol production by bioconversion of cheese whey in a continuous packed bed reactor. <i>Bioresource Technology</i> , 2013, 138, 259-265. | 9.6 | 67 |
| 23 | An experimental characterization of Calcium Looping integrated with concentrated solar power. <i>Chemical Engineering Journal</i> , 2018, 331, 794-802. | 12.7 | 65 |
| 24 | Butanol production by <i>Clostridium acetobutylicum</i> in a continuous packed bed reactor. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2010, 37, 603-608. | 3.0 | 64 |
| 25 | Analysis of char-slag interaction and near-wall particle segregation in entrained-flow gasification of coal. <i>Combustion and Flame</i> , 2010, 157, 874-883. | 5.2 | 61 |
| 26 | Heat transfer in directly irradiated fluidized beds. <i>Solar Energy</i> , 2016, 129, 85-100. | 6.1 | 60 |
| 27 | Diagnostics of carbon gasification by raman microprobe spectroscopy. <i>Proceedings of the Combustion Institute</i> , 2000, 28, 2369-2374. | 3.9 | 59 |
| 28 | Continuous succinic acid fermentation by <i>Actinobacillus succinogenes</i> in a packed-bed biofilm reactor. <i>Biotechnology for Biofuels</i> , 2018, 11, 138. | 6.2 | 59 |
| 29 | Fluidized bed calcium looping: The effect of SO ₂ on sorbent attrition and CO ₂ capture capacity. <i>Chemical Engineering Journal</i> , 2012, 207-208, 445-449. | 12.7 | 58 |
| 30 | Fluidized Bed Combustion of a Biomass Char (<i>Robinia pseudoacacia</i>). <i>Energy & Fuels</i> , 2000, 14, 781-790. | 5.1 | 57 |
| 31 | A model of integrated calcium looping for CO ₂ capture and concentrated solar power. <i>Solar Energy</i> , 2015, 120, 208-220. | 6.1 | 57 |
| 32 | Assessment of Thermodeactivation during Gasification of a Bituminous Coal Char. <i>Energy & Fuels</i> , 1999, 13, 1154-1159. | 5.1 | 55 |
| 33 | Fluidization of solids with CO ₂ at pressures from ambient to supercritical. <i>AIChE Journal</i> , 2000, 46, 901-910. | 3.6 | 54 |
| 34 | Fluidized bed calcium looping cycles for CO ₂ capture under oxy-firing calcination conditions: Part 1. Assessment of six limestones. <i>Chemical Engineering Journal</i> , 2013, 231, 537-543. | 12.7 | 54 |
| 35 | An airlift biofilm reactor for the biodegradation of phenol by <i>Pseudomonas stutzeri</i> OX1. <i>Journal of Biotechnology</i> , 2006, 123, 464-477. | 3.8 | 51 |
| 36 | CFD simulations of segregating fluidized bidisperse mixtures of particles differing in size. <i>Chemical Engineering Journal</i> , 2010, 156, 432-445. | 12.7 | 51 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Relevance of structure, fragmentation and reactivity of coal to combustion and oxy-combustion. <i>Fuel</i> , 2017, 201, 65-80. | 6.4 | 51 |
| 38 | Modelling attrition of limestone during calcination and sulfation in a fluidized bed reactor. <i>Powder Technology</i> , 1998, 95, 119-128. | 4.2 | 50 |
| 39 | The influence of temperature on limestone sulfation and attrition under fluidized bed combustion conditions. <i>Experimental Thermal and Fluid Science</i> , 2010, 34, 352-358. | 2.7 | 50 |
| 40 | Evolution of Reactivity of Highly Porous Chars from Raman Microscopy. <i>Combustion Science and Technology</i> , 2000, 153, 65-82. | 2.3 | 49 |
| 41 | The attrition behaviour of oxygen-carriers under inert and reacting conditions. <i>Chemical Engineering Science</i> , 2012, 71, 449-467. | 3.8 | 49 |
| 42 | Olive mill wastewater remediation by means of <i>Pleurotus ostreatus</i> . <i>Biochemical Engineering Journal</i> , 2006, 31, 180-187. | 3.6 | 48 |
| 43 | Patterns and kinetics of pyrolysis of tobacco under inert and oxidative conditions. <i>Journal of Analytical and Applied Pyrolysis</i> , 2007, 79, 227-233. | 5.5 | 48 |
| 44 | Reactivation by water hydration of the CO ₂ capture capacity of a calcium looping sorbent. <i>Fuel</i> , 2014, 127, 109-115. | 6.4 | 48 |
| 45 | Assessment of anthraquinone-dye conversion by free and immobilized crude laccase mixtures. <i>Enzyme and Microbial Technology</i> , 2008, 42, 521-530. | 3.2 | 47 |
| 46 | Char-Wall Interaction and Properties of Slag Waste in Entrained-Flow Gasification of Coal. <i>Energy & Fuels</i> , 2011, 25, 3671-3677. | 5.1 | 47 |
| 47 | Improving the thermal performance of fluidized beds for concentrated solar power and thermal energy storage. <i>Powder Technology</i> , 2016, 290, 97-101. | 4.2 | 46 |
| 48 | Secondary fragmentation of char particles during combustion in a fluidized bed. <i>Combustion and Flame</i> , 1989, 77, 79-90. | 5.2 | 45 |
| 49 | Attrition of Limestone During Fluidized Bed Calcium Looping Cycles for CO ₂ Capture. <i>Combustion Science and Technology</i> , 2012, 184, 929-941. | 2.3 | 45 |
| 50 | Segregation of fuel particles and volatile matter during devolatilization in a fluidized bed reactor. I. Model development. <i>Chemical Engineering Science</i> , 1997, 52, 1893-1908. | 3.8 | 43 |
| 51 | Butanol production from hexoses and pentoses by fermentation of <i>Clostridium acetobutylicum</i> . <i>Anaerobe</i> , 2015, 34, 146-155. | 2.1 | 43 |
| 52 | Combustion and percolative fragmentation of carbons. <i>Combustion and Flame</i> , 1993, 95, 342-350. | 5.2 | 42 |
| 53 | The relevance of attrition to the fate of ashes during fluidized-bed combustion of a biomass. <i>Proceedings of the Combustion Institute</i> , 2000, 28, 2279-2286. | 3.9 | 42 |
| 54 | Mixing and segregation in fluidized bed thermochemical conversion of biomass. <i>Powder Technology</i> , 2017, 316, 29-40. | 4.2 | 42 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 55 | Directly irradiated fluidized bed reactor for thermochemical energy storage and solar fuels production. <i>Powder Technology</i> , 2020, 366, 460-469. | 4.2 | 42 |
| 56 | Fluidized Beds for Concentrated Solar Thermal Technologies—A Review. <i>Frontiers in Energy Research</i> , 2021, 9, . | 2.3 | 42 |
| 57 | Hydrodynamic interaction between a coarse gas-emitting particle and a gas fluidized bed of finer solids. <i>Powder Technology</i> , 2003, 133, 79-90. | 4.2 | 41 |
| 58 | CFD simulation of bubbling fluidized bidisperse mixtures: Effect of integration methods and restitution coefficient. <i>Chemical Engineering Science</i> , 2013, 102, 324-334. | 3.8 | 41 |
| 59 | Immobilization of a <i>Pleurotus ostreatus</i> Laccase Mixture on Perlite and Its Application to Dye Decolourisation. <i>BioMed Research International</i> , 2014, 2014, 1-11. | 1.9 | 40 |
| 60 | The influence of char surface oxidation on thermal annealing and loss of combustion reactivity. <i>Proceedings of the Combustion Institute</i> , 2005, 30, 2223-2230. | 3.9 | 39 |
| 61 | Fluidized bed combustion and fragmentation of wet sewage sludge. <i>Experimental Thermal and Fluid Science</i> , 2012, 43, 97-104. | 2.7 | 39 |
| 62 | Bio-butanol separation by adsorption on various materials: Assessment of isotherms and effects of other ABE-fermentation compounds. <i>Separation and Purification Technology</i> , 2018, 191, 328-339. | 7.9 | 39 |
| 63 | A comparative characterization study of Ca-looping natural sorbents. <i>Applied Energy</i> , 2013, 108, 373-382. | 10.1 | 38 |
| 64 | Enhancement of Sulfur Uptake by Hydration of Spent Limestone for Fluidized-Bed Combustion Application. <i>Industrial & Engineering Chemistry Research</i> , 2001, 40, 2495-2501. | 3.7 | 37 |
| 65 | The influence of thermal annealing on oxygen uptake and combustion rates of a bituminous coal char. <i>Proceedings of the Combustion Institute</i> , 2007, 31, 1889-1895. | 3.9 | 37 |
| 66 | Flue gas desulfurization under simulated oxyfiring fluidized bed combustion conditions: The influence of limestone attrition and fragmentation. <i>Chemical Engineering Science</i> , 2010, 65, 556-561. | 3.8 | 37 |
| 67 | Biosuccinic Acid from Lignocellulosic-Based Hexoses and Pentoses by <i>Actinobacillus succinogenes</i> : Characterization of the Conversion Process. <i>Applied Biochemistry and Biotechnology</i> , 2017, 183, 1465-1477. | 2.9 | 37 |
| 68 | Poly- β -hydroxybutyrate (PHB) production by <i>Synechocystis</i> PCC6803 from CO ₂ : Model development. <i>Algal Research</i> , 2018, 29, 49-60. | 4.6 | 37 |
| 69 | The influence of fine char particles burnout on bed agglomeration during the fluidized bed combustion of a biomass fuel. <i>Fuel Processing Technology</i> , 2003, 84, 229-241. | 7.2 | 36 |
| 70 | Improving the performance of calcium looping for solar thermochemical energy storage and CO ₂ capture. <i>Fuel</i> , 2021, 298, 120791. | 6.4 | 36 |
| 71 | Effects of viscosity and relaxation time on the hydrodynamics of gas-liquid systems. <i>Chemical Engineering Science</i> , 2011, 66, 3392-3399. | 3.8 | 35 |
| 72 | Kinetic study of a novel thermo-stable β -carbonic anhydrase for biomimetic CO ₂ capture. <i>Enzyme and Microbial Technology</i> , 2013, 53, 271-277. | 3.2 | 35 |

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|----|---|------|-----------|
| 73 | Reactivation by Steam Hydration of Sorbents for Fluidized-Bed Calcium Looping. <i>Energy & Fuels</i> , 2015, 29, 4436-4446. | 5.1 | 35 |
| 74 | Solar-driven production of lime for ordinary Portland cement formulation. <i>Solar Energy</i> , 2018, 173, 759-768. | 6.1 | 35 |
| 75 | A descriptive model of carbon attrition in the fluidized combustion of a coal char. <i>Chemical Engineering Science</i> , 1985, 40, 1905-1916. | 3.8 | 34 |
| 76 | A Thermogravimetric Study of Nonfossil Solid Fuels. 1. Inert Pyrolysis. <i>Energy & Fuels</i> , 2002, 16, 653-660. | 5.1 | 34 |
| 77 | Hydration-induced reactivation of spent sorbents for fluidized bed calcium looping (double looping). <i>Fuel Processing Technology</i> , 2014, 120, 71-78. | 7.2 | 34 |
| 78 | Rotation-assisted Abrasive Fluidised Bed Machining of AlSi10Mg parts made through Selective Laser Melting Technology. <i>Procedia Manufacturing</i> , 2020, 47, 1043-1049. | 1.9 | 34 |
| 79 | Some issues in modelling bubbling and circulating fluidized-bed coal combustors. <i>Powder Technology</i> , 1995, 82, 301-316. | 4.2 | 33 |
| 80 | Sulphation of limestones in a fluidized bed combustor: The relationship between particle attrition and microstructure. <i>Canadian Journal of Chemical Engineering</i> , 2008, 86, 347-355. | 1.7 | 33 |
| 81 | Continuous lactose fermentation by <i>Clostridium acetobutylicum</i> – Assessment of acidogenesis kinetics. <i>Bioresource Technology</i> , 2011, 102, 1608-1614. | 9.6 | 32 |
| 82 | Kinetic study of butanol production from various sugars by <i>Clostridium acetobutylicum</i> using a dynamic model. <i>Biochemical Engineering Journal</i> , 2015, 99, 156-166. | 3.6 | 32 |
| 83 | Modelling of a concentrated solar power – photovoltaics hybrid plant for carbon dioxide capture and utilization via calcium looping and methanation. <i>Energy Conversion and Management</i> , 2021, 230, 113792. | 9.2 | 32 |
| 84 | A predictive model of carbon attrition in fluidized bed combustion and gasification of a graphite. <i>Chemical Engineering Science</i> , 1989, 44, 1091-1099. | 3.8 | 31 |
| 85 | Loss of gasification reactivity toward O ₂ and CO ₂ upon heat treatment of carbons. <i>Proceedings of the Combustion Institute</i> , 2002, 29, 485-493. | 3.9 | 31 |
| 86 | An assessment of water and steam reactivation of a fluidized bed spent sorbent for enhanced SO ₂ capture. <i>Powder Technology</i> , 2008, 180, 129-134. | 4.2 | 31 |
| 87 | Primary fragmentation of limestone under oxy-firing conditions in a bubbling fluidized bed. <i>Fuel Processing Technology</i> , 2011, 92, 1449-1456. | 7.2 | 31 |
| 88 | Performance of Natural Sorbents during Calcium Looping Cycles: A Comparison between Fluidized Bed and Thermo-Gravimetric Tests. <i>Energy & Fuels</i> , 2013, 27, 6048-6054. | 5.1 | 31 |
| 89 | Fluidized bed calcium looping cycles for CO ₂ capture under oxy-firing calcination conditions: Part 2. Assessment of dolomite vs. limestone. <i>Chemical Engineering Journal</i> , 2013, 231, 544-549. | 12.7 | 31 |
| 90 | Gas and solid flow patterns in the loop-seal of a circulating fluidized bed. <i>Powder Technology</i> , 2014, 264, 197-202. | 4.2 | 31 |

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|-----|---|------|-----------|
| 91 | A novel autothermal fluidized bed reactor for concentrated solar thermal applications. <i>Chemical Engineering Journal</i> , 2020, 398, 125702. | 12.7 | 31 |
| 92 | Hydrodynamics and mass transfer in a lab-scale three-phase internal loop airlift. <i>Chemical Engineering Journal</i> , 2003, 96, 45-54. | 12.7 | 30 |
| 93 | Mathematical modeling of a two-stage fuel reactor for chemical looping combustion with oxygen uncoupling of solid fuels. <i>Applied Energy</i> , 2015, 157, 449-461. | 10.1 | 30 |
| 94 | The influence of sorbent properties and reaction temperature on sorbent attrition, sulfur uptake, and particle sulfation pattern during fluidized-bed desulfurization. <i>Combustion Science and Technology</i> , 2002, 174, 151-169. | 2.3 | 29 |
| 95 | Numerical simulations of lateral solid mixing in gas-fluidized beds. <i>Chemical Engineering Science</i> , 2014, 120, 117-129. | 3.8 | 29 |
| 96 | Effect of steam on the performance of Ca-based sorbents in calcium looping processes. <i>Powder Technology</i> , 2017, 316, 578-584. | 4.2 | 29 |
| 97 | Kinetic characterization of carbonic anhydrase immobilized on magnetic nanoparticles as biocatalyst for CO ₂ capture. <i>Biochemical Engineering Journal</i> , 2018, 138, 1-11. | 3.6 | 29 |
| 98 | Cu ^{II} /Al ₂ O ₃ catalyst for the combustion of methane in a fluidized bed reactor. <i>Catalysis Today</i> , 2002, 75, 317-324. | 4.4 | 28 |
| 99 | Dolomite attrition during fluidized-bed calcination and sulfation. <i>Combustion Science and Technology</i> , 2003, 175, 2201-2216. | 2.3 | 28 |
| 100 | Azo-dye conversion by means of <i>Pseudomonas</i> sp. OX1. <i>Enzyme and Microbial Technology</i> , 2007, 41, 646-652. | 3.2 | 28 |
| 101 | Continuous Succinic Acid Fermentation by <i>Actinobacillus Succinogenes</i> : Assessment of Growth and Succinic Acid Production Kinetics. <i>Applied Biochemistry and Biotechnology</i> , 2019, 187, 782-799. | 2.9 | 28 |
| 102 | Fluidization of solids with CO ₂ at pressures and temperatures ranging from ambient to nearly critical conditions. <i>Chemical Engineering Science</i> , 1993, 48, 617-621. | 3.8 | 27 |
| 103 | Limestone fragmentation and attrition during fluidized bed oxyfiring. <i>Fuel</i> , 2010, 89, 827-832. | 6.4 | 27 |
| 104 | A semi-detailed kinetic model of char combustion with consideration of thermal annealing. <i>Proceedings of the Combustion Institute</i> , 2011, 33, 1763-1770. | 3.9 | 27 |
| 105 | Photobioreactors for microalgal cultures: A Lagrangian model coupling hydrodynamics and kinetics. <i>Biotechnology Progress</i> , 2015, 31, 1259-1272. | 2.6 | 27 |
| 106 | Fluidised bed machining of metal additive manufactured parts. <i>AIP Conference Proceedings</i> , 2019, , . | 0.4 | 27 |
| 107 | 110th Anniversary: Calcium Looping Coupled with Concentrated Solar Power for Carbon Capture and Thermochemical Energy Storage. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 21262-21272. | 3.7 | 27 |
| 108 | Steam hydrationâ€“reactivation of FBC ashes for enhanced in situ desulphurization. <i>Fuel</i> , 2009, 88, 1092-1098. | 6.4 | 26 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 109 | Modeling of an aerobic biofilm reactor with double-limiting substrate kinetics: Bifurcational and dynamical analysis. <i>Biotechnology Progress</i> , 2011, 27, 1599-1613. | 2.6 | 26 |
| 110 | Structure and activity of magnetic cross-linked enzyme aggregates of bovine carbonic anhydrase as promoters of enzymatic CO ₂ capture. <i>Biochemical Engineering Journal</i> , 2017, 127, 188-195. | 3.6 | 26 |
| 111 | Comparison of pyrolysis test rigs for oxy-fuel conditions. <i>Fuel Processing Technology</i> , 2017, 156, 461-472. | 7.2 | 26 |
| 112 | Bio-butanol recovery by adsorption/desorption processes. <i>Separation and Purification Technology</i> , 2020, 235, 116145. | 7.9 | 26 |
| 113 | Butanol production by <i>Clostridium acetobutylicum</i> in a series of packed bed biofilm reactors. <i>Chemical Engineering Science</i> , 2016, 152, 678-688. | 3.8 | 25 |
| 114 | Multiphase flow patterns in entrained-flow slagging gasifiers: Physical modelling of particle-wall impact at near-ambient conditions. <i>Fuel Processing Technology</i> , 2016, 141, 106-116. | 7.2 | 25 |
| 115 | Pyrolysis and Thermal Annealing of Coal and Biomass in CO ₂ -Rich Atmospheres. <i>Energy & Fuels</i> , 2018, 32, 10701-10708. | 5.1 | 25 |
| 116 | Fluidized-bed combustion of a biomass char: The influence of carbon attrition and fines postcombustion on fixed carbon conversion. <i>Proceedings of the Combustion Institute</i> , 1998, 27, 3103-3110. | 0.3 | 24 |
| 117 | Assessment of ettringite from hydrated FBC residues as a sorbent for fluidized bed desulphurization. <i>Fuel</i> , 2003, 82, 2299-2307. | 6.4 | 24 |
| 118 | A model of the dynamics of a fluidized bed combustor burning biomass. <i>Combustion and Flame</i> , 2005, 140, 371-384. | 5.2 | 24 |
| 119 | Reuse of Fly Ash from a Fluidized Bed Combustor for Sulfur Uptake: The Role of Ettringite in Hydration-Induced Reactivation. <i>Energy & Fuels</i> , 2005, 19, 1822-1827. | 5.1 | 24 |
| 120 | A single particle model of the fluidized bed combustion of a char particle with a coherent ash skeleton: Application to granulated sewage sludge. <i>Fuel Processing Technology</i> , 2007, 88, 577-584. | 7.2 | 24 |
| 121 | Strategies for dephenolization of raw olive mill wastewater by means of <i>Pleurotus ostreatus</i> . <i>Journal of Industrial Microbiology and Biotechnology</i> , 2012, 39, 719-729. | 3.0 | 24 |
| 122 | Directly irradiated fluidized bed reactors for thermochemical processing and energy storage: Application to calcium looping. <i>AIP Conference Proceedings</i> , 2017, , . | 0.4 | 24 |
| 123 | A novel fluidized bed thermochemical battery for energy storage in concentrated solar thermal technologies. <i>Energy Conversion and Management</i> , 2021, 236, 113994. | 9.2 | 24 |
| 124 | The combined effect of H ₂ O and SO ₂ on CO ₂ uptake and sorbent attrition during fluidised bed calcium looping. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 4379-4387. | 3.9 | 23 |
| 125 | A fractal approach to the analysis of low temperature combustion rate of a coal char: I. Experimental results. <i>Carbon</i> , 1993, 31, 501-508. | 10.3 | 22 |
| 126 | Reactivation by Water Hydration of Spent Sorbent for Fluidized-Bed Combustion Application: Influence of Hydration Time. <i>Industrial & Engineering Chemistry Research</i> , 2004, 43, 5692-5701. | 3.7 | 22 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 127 | Overlapping of heterogeneous and purely thermally activated solid-state processes in the combustion of a bituminous coal. <i>Combustion and Flame</i> , 2006, 144, 578-591. | 5.2 | 22 |
| 128 | Attrition of limestones by impact loading in fluidized beds: The influence of reaction conditions. <i>Fuel Processing Technology</i> , 2010, 91, 1022-1027. | 7.2 | 22 |
| 129 | Gasification of Waste Biomass Chars by Carbon Dioxide via Thermogravimetry—Effect of Catalysts. <i>Combustion Science and Technology</i> , 2012, 184, 64-77. | 2.3 | 22 |
| 130 | Particulate and gaseous emissions during fluidized bed combustion of semi-dried sewage sludge: Effect of bed ash accumulation on NOx formation. <i>Waste Management</i> , 2013, 33, 1397-1402. | 7.4 | 22 |
| 131 | The effect of steam on CO2 uptake and sorbent attrition in fluidised bed calcium looping: The influence of process conditions and sorbent properties. <i>Separation and Purification Technology</i> , 2017, 189, 101-107. | 7.9 | 22 |
| 132 | A fractal approach to the analysis of low temperature combustion rate of a coal char. II: Model development. <i>Carbon</i> , 1994, 32, 51-59. | 10.3 | 21 |
| 133 | Bifurcational and dynamical analysis of a continuous biofilm reactor. <i>Journal of Biotechnology</i> , 2008, 135, 295-303. | 3.8 | 21 |
| 134 | A Population Balance Model on Sorbent in CFB Combustors: The Influence of Particle Attrition. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 9704-9711. | 3.7 | 21 |
| 135 | Local and global hydrodynamics in a two-phase internal loop airlift. <i>Chemical Engineering Science</i> , 2007, 62, 7068-7077. | 3.8 | 20 |
| 136 | Analysis of the energy efficiency of solar aided biomass gasification for pure hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 14622-14632. | 7.1 | 20 |
| 137 | Modelling oxy-pyrolysis of sewage sludge in a rotary kiln reactor. <i>Fuel</i> , 2018, 231, 468-478. | 6.4 | 19 |
| 138 | Effect of exposure to SO2 and H2O during the carbonation stage of fluidised bed calcium looping on the performance of sorbents of different nature. <i>Chemical Engineering Journal</i> , 2019, 377, 120626. | 12.7 | 19 |
| 139 | Design and construction of a new detector to measure ultra-low radioactive-isotope contamination of argon. <i>Journal of Instrumentation</i> , 2020, 15, P02024-P02024. | 1.2 | 19 |
| 140 | The fate of fixed carbon during the fluidized-bed combustion of a coal and two waste-derived fuels. <i>Proceedings of the Combustion Institute</i> , 1996, 26, 3243-3251. | 0.3 | 18 |
| 141 | Analysis of the dynamics of heat transfer between a hot wire probe and gas fluidized beds. <i>Powder Technology</i> , 1999, 102, 53-63. | 4.2 | 18 |
| 142 | Fluidized bed combustion of tyre derived fuel. <i>Experimental Thermal and Fluid Science</i> , 2003, 27, 465-471. | 2.7 | 18 |
| 143 | Fluidization and attrition of pyroclastic granular solids. <i>Journal of Volcanology and Geothermal Research</i> , 2004, 138, 27-42. | 2.1 | 18 |
| 144 | Laser diagnostics of hydrodynamics and gas-mixing induced by bubble bursting at the surface of gas-fluidized beds. <i>Chemical Engineering Science</i> , 2007, 62, 94-108. | 3.8 | 18 |

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|-----|--|-----|-----------|
| 145 | Self-fluidization of subaerial rapid granular flows. <i>Powder Technology</i> , 2008, 182, 323-333. | 4.2 | 18 |
| 146 | Mechanochemical activation of high-carbon fly ash for enhanced carbon reburning. <i>Proceedings of the Combustion Institute</i> , 2011, 33, 2743-2753. | 3.9 | 18 |
| 147 | Solar-Driven Torrefaction of a Lignin-Rich Biomass Residue in a Directly Irradiated Fluidized Bed Reactor. <i>Combustion Science and Technology</i> , 2019, 191, 1609-1627. | 2.3 | 18 |
| 148 | SiPM-matrix readout of two-phase argon detectors using electroluminescence in the visible and near infrared range. <i>European Physical Journal C</i> , 2021, 81, 1. | 3.9 | 18 |
| 149 | Continuous succinic acid production by immobilized cells of <i>Actinobacillus succinogenes</i> in a fluidized bed reactor: Entrapment in alginate beads. <i>Biochemical Engineering Journal</i> , 2021, 169, 107968. | 3.6 | 18 |
| 150 | Modeling fragmentation by percolation in combustion of carbons. <i>Powder Technology</i> , 1991, 66, 47-52. | 4.2 | 17 |
| 151 | Flow Structures and Gas-Mixing Induced by Bubble Bursting at the Surface of an Incipiently Gas-Fluidized Bed. <i>Industrial & Engineering Chemistry Research</i> , 2004, 43, 5738-5753. | 3.7 | 17 |
| 152 | A fluid-bed continuous classifier of polydisperse granular solids. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2009, 40, 638-644. | 5.3 | 17 |
| 153 | Continuous xylose fermentation by <i>Clostridium acetobutylicum</i> – Kinetics and energetics issues under acidogenesis conditions. <i>Bioresource Technology</i> , 2014, 164, 155-161. | 9.6 | 17 |
| 154 | Wall effects in entrained particle-laden flows: The role of particle stickiness on solid segregation and build-up of wall deposits. <i>Powder Technology</i> , 2014, 266, 282-291. | 4.2 | 17 |
| 155 | A single particle model of lime sulphation with a fractal formulation of product layer diffusion. <i>Chemical Engineering Science</i> , 2016, 156, 115-120. | 3.8 | 17 |
| 156 | Modeling of slurry staged bubble column for biomimetic CO ₂ capture. <i>International Journal of Greenhouse Gas Control</i> , 2016, 47, 200-209. | 4.6 | 17 |
| 157 | X-ray imaging of horizontal jets in gas fluidised bed nozzles. <i>Chemical Engineering Science</i> , 2017, 164, 53-62. | 3.8 | 17 |
| 158 | Impact experiments of char and ash particles relevant to entrained-flow coal gasifiers. <i>Fuel</i> , 2017, 202, 665-674. | 6.4 | 17 |
| 159 | Attrition phenomena during fluidized bed combustion of granulated and mechanically dewatered sewage sludges. <i>Proceedings of the Combustion Institute</i> , 2005, 30, 3017-3024. | 3.9 | 16 |
| 160 | Continuous lactose fermentation by <i>Clostridium acetobutylicum</i> – Assessment of energetics and product yields of the acidogenesis. <i>Enzyme and Microbial Technology</i> , 2012, 50, 165-172. | 3.2 | 16 |
| 161 | Continuous lactose fermentation by <i>Clostridium acetobutylicum</i> – Assessment of solventogenic kinetics. <i>Bioresource Technology</i> , 2015, 180, 330-337. | 9.6 | 16 |
| 162 | Continuous xylose fermentation by <i>Clostridium acetobutylicum</i> – Assessment of solventogenic kinetics. <i>Bioresource Technology</i> , 2015, 192, 142-148. | 9.6 | 16 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 163 | A twin-bed test reactor for characterization of calcium looping sorbents. Powder Technology, 2017, 316, 585-591. | 4.2 | 16 |
| 164 | Hydrodynamics of compartmented fluidized beds under uneven fluidization conditions. Powder Technology, 2017, 316, 476-491. | 4.2 | 16 |
| 165 | Cryogenic Characterization of FBK RGB-HD SiPMs. Journal of Instrumentation, 2017, 12, P09030-P09030. | 1.2 | 16 |
| 166 | Steam reactivation of a spent sorbent for enhanced SO ₂ capture in FBC. AICHE Journal, 2006, 52, 4090-4098. | 3.6 | 15 |
| 167 | Fluidization and de-aeration of pyroclastic mixtures: The influence of fines content, polydispersity and shear flow. Journal of Volcanology and Geothermal Research, 2007, 164, 284-292. | 2.1 | 15 |
| 168 | Characterization of the devolatilization rate of solid fuels in fluidized beds by time-resolved pressure measurements. AICHE Journal, 2012, 58, 632-645. | 3.6 | 15 |
| 169 | Entrained-flow gasification of coal under slagging conditions: Relevance of fuel-wall interaction and char segregation to the properties of solid wastes. Fuel, 2013, 114, 44-55. | 6.4 | 15 |
| 170 | Attrition phenomena relevant to fluidized bed combustion and gasification systems. , 2013, , 254-315. | | 15 |
| 171 | Modelling entrained-flow slagging gasification of solid fuels with near-wall particle segregation. Chemical Engineering Journal, 2019, 377, 119962. | 12.7 | 15 |
| 172 | Char/ash deposition and near-wall segregation in slagging entrained-flow gasification of solid fuels: from experiments to closure equations. Fuel, 2020, 264, 116864. | 6.4 | 15 |
| 173 | Heat treatment-induced loss of combustion reactivity of a coal char: the effect of exposure to oxygen. Experimental Thermal and Fluid Science, 2004, 28, 735-741. | 2.7 | 14 |
| 174 | Investigation of Char-Slag Interaction Regimes in Entrained-Flow Gasifiers: Linking Experiments with Numerical Simulations. Combustion Science and Technology, 2012, 184, 871-887. | 2.3 | 14 |
| 175 | Assessment of the thermochemistry of oxygen chemisorption and surface oxide desorption during looping combustion of coal char. Proceedings of the Combustion Institute, 2013, 34, 2787-2793. | 3.9 | 14 |
| 176 | Characterization of technical grade carbonic anhydrase as biocatalyst for CO ₂ capture in potassium carbonate solutions. , 2018, 8, 279-291. | | 14 |
| 177 | Efficient succinic acid production from high-sugar content beverages by <i>Actinobacillus succinogenes</i> . Biotechnology Progress, 2019, 35, e2863. | 2.6 | 14 |
| 178 | Particle residence time distributions in a vortex-based solar particle receiver-reactor: An experimental, numerical and theoretical study. Chemical Engineering Science, 2020, 214, 115421. | 3.8 | 14 |
| 179 | Catalytic combustion of methane and propane in a fluidized-bed reactor. Proceedings of the Combustion Institute, 2002, 29, 827-834. | 3.9 | 13 |
| 180 | Assessment of gas-fluidized beds mixing and hydrodynamics by zirconia sensors. AICHE Journal, 2006, 52, 185-198. | 3.6 | 13 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 181 | Assessment of Sorbent Reactivation by Water Hydration for Fluidized Bed Combustion Application. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2006, 128, 90-98. | 2.3 | 13 |
| 182 | Devolatilization and ash comminution of two different sewage sludges under fluidized bed combustion conditions. <i>Experimental Thermal and Fluid Science</i> , 2010, 34, 387-395. | 2.7 | 13 |
| 183 | A lab-scale cold flow model reactor to investigate near-wall particle segregation relevant to entrained-flow slagging coal gasifiers. <i>Fuel</i> , 2014, 117, 1267-1273. | 6.4 | 13 |
| 184 | Fluidised bed drying of powdered materials: Effects of operating conditions. <i>Powder Technology</i> , 2017, 308, 158-164. | 4.2 | 13 |
| 185 | Influence of Abrasive Materials in Fluidised Bed Machining of AlSi10Mg Parts Made through Selective Laser Melting Technology. <i>Key Engineering Materials</i> , 2019, 813, 129-134. | 0.4 | 13 |
| 186 | Immobilization of carbonic anhydrase for CO ₂ capture and utilization. <i>Applied Microbiology and Biotechnology</i> , 2022, 106, 3419-3430. | 3.6 | 13 |
| 187 | A THEORETICAL APPROACH TO THE CHARACTERIZATION OF CARBON ATTRITION IN A FLUIDIZED BED COMBUSTOR. <i>Chemical Engineering Communications</i> , 1987, 62, 285-301. | 2.6 | 12 |
| 188 | Catalytic combustion of methane in a fluidized bed reactor under fuel-lean conditions. <i>Combustion Science and Technology</i> , 2002, 174, 361-375. | 2.3 | 12 |
| 189 | Modelling the SO ₂ "limestone reaction under periodically changing oxidizing/reducing conditions: the influence of cycle time on reaction rate. <i>Chemical Engineering Science</i> , 2002, 57, 631-641. | 3.8 | 12 |
| 190 | Hydration products of FBC wastes as SO ₂ sorbents: comparison between ettringite and calcium hydroxide. <i>Fuel Processing Technology</i> , 2008, 89, 47-54. | 7.2 | 12 |
| 191 | Analysis of an Explosion in a Wool-Processing Plant. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 7713-7718. | 3.7 | 12 |
| 192 | Numerical simulation of hydrogen production by chemical looping reforming in a dual fluidized bed reactor. <i>Powder Technology</i> , 2017, 316, 614-627. | 4.2 | 12 |
| 193 | Experimental characterization of particle-wall interaction relevant to entrained-flow gasification of biomass. <i>Fuel</i> , 2017, 209, 674-684. | 6.4 | 12 |
| 194 | Particle residence time distributions in a vortex-based solar particle receiver-reactor: The influence of receiver tilt angle. <i>Solar Energy</i> , 2019, 190, 126-138. | 6.1 | 12 |
| 195 | Impact fragmentation of limestone-based sorbents for calcium looping: The effect of steam and sulphur dioxide. <i>Fuel Processing Technology</i> , 2020, 208, 106499. | 7.2 | 12 |
| 196 | Looping cycles for low carbon technologies: A survey of recent research activities in Naples. <i>Fuel</i> , 2020, 268, 117371. | 6.4 | 12 |
| 197 | Pyrolysis and combustion of a solid refinery waste. <i>Fuel</i> , 2020, 267, 117258. | 6.4 | 12 |
| 198 | The influence of heat treatment and weathering on the gasification reactivity of Montana lignite. <i>Proceedings of the Combustion Institute</i> , 1998, 27, 2991-2999. | 0.3 | 11 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 199 | Combustion of lignin-rich residues with coal in a pilot-scale bubbling fluidized bed reactor. Powder Technology, 2017, 316, 718-724. | 4.2 | 11 |
| 200 | Particle-wall interaction in entrained-flow slagging coal gasifiers: Granular flow simulation and experiments in a cold flow model reactor. International Journal of Multiphase Flow, 2017, 91, 142-154. | 3.4 | 11 |
| 201 | Mechanism and Thermochemistry of Coal Char Oxidation and Desorption of Surface Oxides. Energy & Fuels, 2017, 31, 2308-2316. | 5.1 | 11 |
| 202 | Evaluation of two sorbents for the sorption-enhanced methanation in a dual fluidized bed system. Biomass Conversion and Biorefinery, 2021, 11, 111-119. | 4.6 | 11 |
| 203 | Attrition of spherical electrode carbon particles during batch fluidized combustion. Canadian Journal of Chemical Engineering, 1988, 66, 163-167. | 1.7 | 10 |
| 204 | The Relevance of Macerals in the Combustion of a Coal Char in the Chemical Kinetic Regime. Combustion Science and Technology, 1989, 63, 63-73. | 2.3 | 10 |
| 205 | Modeling gasification and percolation of ash-bearing porous carbon particles. Proceedings of the Combustion Institute, 2000, 28, 2163-2170. | 3.9 | 10 |
| 206 | Development of a sound-assisted fluidized bed filter/afterburner for particle-laden gas clean-up. Powder Technology, 2008, 180, 102-108. | 4.2 | 9 |
| 207 | The influence of reactivation by hydration of spent SO ₂ sorbents on their impact fragmentation in fluidized bed combustors. Chemical Engineering Journal, 2010, 162, 1067-1074. | 12.7 | 9 |
| 208 | OPTIMIZATION OF SOLVENT RECOVERY IN THE PRODUCTION OF BUTANOL BY FERMENTATION. Environmental Engineering and Management Journal, 2012, 11, 1499-1504. | 0.6 | 9 |
| 209 | A TECHNO-ECONOMIC ANALYSIS OF BIODIESEL PRODUCTION FROM MICROALGAE. Environmental Engineering and Management Journal, 2013, 12, 1563-1573. | 0.6 | 9 |
| 210 | Experimental characterization of granular materials for directly irradiated fluidized bed solar receivers. AIP Conference Proceedings, 2019, , . | 0.4 | 8 |
| 211 | Modelling of a combined biomass CLC combustion and renewable-energy-based methane production system for CO ₂ utilization. Powder Technology, 2020, 373, 421-432. | 4.2 | 8 |
| 212 | The influence of temperature on the nature and stability of surface-oxides formed by oxidation of char. Renewable and Sustainable Energy Reviews, 2021, 137, 110595. | 16.4 | 8 |
| 213 | Performance of limestone-based sorbent for sorption-enhanced gasification in dual interconnected fluidized bed reactors. AIChE Journal, 2023, 69, e17588. | 3.6 | 8 |
| 214 | Characterization of calcium looping sorbents with a novel twin bed reactor. Fuel Processing Technology, 2018, 172, 49-54. | 7.2 | 7 |
| 215 | On the agglomeration tendency of carbonaceous fuels in fluidized beds. Fuel, 2020, 277, 118187. | 6.4 | 7 |
| 216 | In vivo immobilized carbonic anhydrase and its effect on the enhancement of CO ₂ absorption rate. Journal of Biotechnology, 2021, 336, 41-49. | 3.8 | 7 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 217 | Fluidized bed combustion of solid lignin-rich residues from bioethanol production. Powder Technology, 2020, 371, 170-179. | 4.2 | 7 |
| 218 | CO ₂ CAPTURE BY BIOMIMETIC ADSORPTION: ENZYME MEDIATED CO ₂ ABSORPTION FOR POST-COMBUSTION CARBON SEQUESTRATION AND STORAGE PROCESS. Environmental Engineering and Management Journal, 2013, 12, 1595-1603. | 0.6 | 7 |
| 219 | Computations of the performance of fluidized coal combustors. Powder Technology, 1985, 43, 163-167. | 4.2 | 6 |
| 220 | The Influence of Coal Macerals on Carbon Attrition During the Fluidized Bed Combustion of Coal Char. Combustion Science and Technology, 1992, 83, 135-143. | 2.3 | 6 |
| 221 | Sound-Assisted Fluidized Bed Combustion of Fine Particles. Combustion Science and Technology, 2000, 153, 83-93. | 2.3 | 6 |
| 222 | Chapter 25 Attrition in Fluidised Beds. Handbook of Powder Technology, 2007, 12, 1019-1053. | 0.1 | 6 |
| 223 | Preliminary Assessment of a Concept of Looping Combustion of Carbon. Industrial & Engineering Chemistry Research, 2009, 48, 102-109. | 3.7 | 6 |
| 224 | A novel three-phase airlift reactor without circulation of solids. Canadian Journal of Chemical Engineering, 2010, 88, 574-578. | 1.7 | 6 |
| 225 | Experimental and numerical analysis of jet penetration and gas evolution in a single-nozzle distributor fluidized bed. Chemical Engineering Journal, 2022, 437, 135391. | 12.7 | 6 |
| 226 | On the Design of Thermal Breathing Devices for Liquid Storage Tanks. Chemical Engineering Research and Design, 1999, 77, 354-359. | 5.6 | 5 |
| 227 | Bioenergy II: An Assessment of the Kinetics of Butanol Production by Clostridium acetobutylicum. International Journal of Chemical Reactor Engineering, 2009, 7, . | 1.1 | 5 |
| 228 | Unstable steady state operations of substrate inhibited cultures by dissolved oxygen control. Journal of Biotechnology, 2011, 156, 302-308. | 3.8 | 5 |
| 229 | Development of a dry bottom ash extraction/afterburning system from pulverized fuel co-fired utility boilers. Proceedings of the Combustion Institute, 2013, 34, 2855-2863. | 3.9 | 5 |
| 230 | Nonlinear Analysis of Substrate-Inhibited Continuous Cultures Operated with Feedback Control on Dissolved Oxygen. Industrial & Engineering Chemistry Research, 2013, 52, 13422-13431. | 3.7 | 5 |
| 231 | Eulerian Modeling of Lateral Solid Mixing in Gas-fluidized Suspensions. Procedia Engineering, 2015, 102, 1491-1499. | 1.2 | 5 |
| 232 | Fluidized bed CaO hydration-dehydration cycles for application to sorption-enhanced methanation. Combustion Science and Technology, 2019, 191, 1724-1733. | 2.3 | 5 |
| 233 | Experimental and numerical study of a hybrid solar-combustor system for energy efficiency increasing. Fuel, 2020, 263, 116732. | 6.4 | 5 |
| 234 | Characterization of surface-oxides on char under periodically changing oxidation/desorption conditions. Renewable and Sustainable Energy Reviews, 2021, 137, 110453. | 16.4 | 5 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 235 | PRESSURE DROP IN FLOW OF A NEARLY CRITICAL FLUID THROUGH PACKED BEDS OF SPHERES. Chemical Engineering Communications, 1990, 93, 101-109. | 2.6 | 4 |
| 236 | Limestone Attrition under Simulated Oxyfiring Fluidized-Bed Combustion Conditions. Chemical Engineering and Technology, 2009, 32, 380-385. | 1.5 | 4 |
| 237 | Bioreactors for Azo-Dye Conversion. Handbook of Environmental Chemistry, 2010, , 101-131. | 0.4 | 4 |
| 238 | Beneficiation of coal fly ashes by oxygen chemisorption. Experimental Thermal and Fluid Science, 2012, 43, 76-81. | 2.7 | 4 |
| 239 | Flow Structures and Mixing Patterns in the Freeboard of Gas-Fluidized Bed Reactors. Industrial & Engineering Chemistry Research, 2014, 53, 9296-9302. | 3.7 | 4 |
| 240 | Dynamic modeling of a solar receiver/thermal energy storage system based on a compartmented dense gas fluidized bed. AIP Conference Proceedings, 2017, , . | 0.4 | 4 |
| 241 | Dolomite-based binders manufactured using concentrated solar energy in a fluidised bed reactor. Solar Energy, 2022, 232, 471-482. | 6.1 | 4 |
| 242 | Smoldering Combustion in Cigarette Smoking and Generation of Combustion Byproducts. Environmental Engineering Science, 2008, 25, 1389-1398. | 1.6 | 3 |
| 243 | Modelling and experimental characterization of unsaturated flow in absorbent and swelling porous media. Chemical Engineering Science, 2020, 224, 115765. | 3.8 | 3 |
| 244 | TECHNO-ECONOMIC ANALYSIS OF A BUTANOL RECOVERY PROCESS BASED ON GAS STRIPPING TECHNIQUE. Environmental Engineering and Management Journal, 2017, 16, 1005-1016. | 0.6 | 3 |
| 245 | Immobilization of carbonic anhydrase for biomimetic CO2 capture in slurry absorber. New Biotechnology, 2014, 31, S20-S21. | 4.4 | 2 |
| 246 | Evolution of the academic FabLab at University of Naples Federico II. Journal of Physics: Conference Series, 2018, 1065, 022013. | 0.4 | 2 |
| 247 | Limestone calcination" carbonation in a fluidized bed reactor/receiver for thermochemical energy storage applications. AIP Conference Proceedings, 2019, , . | 0.4 | 2 |
| 248 | Modelling and Experimental Characterization of Unsaturated Flow in Absorbent and Swelling Porous Media: Material Characterization. Transport in Porous Media, 2020, 134, 725-753. | 2.6 | 2 |
| 249 | Steam Reactivation of FB Spent Sorbent for Enhanced SO2 Capture: The Relationship Between Microstructural Properties and Sulphur Uptake. , 2005, , . | | 2 |
| 250 | Sorbent Inventory and Particle Size Distribution in Air-Blown Circulating Fluidized Bed Combustors: The Influence of Particle Attrition and Fragmentation. , 2009, , 966-971. | | 2 |
| 251 | Performance of Ca-Based Sorbents for Calcium Looping Processes: Role of Steam. Advanced Science Letters, 2017, 23, 5920-5922. | 0.2 | 2 |
| 252 | Sustainability assessment of biotechnological processes: LCA and LCC of second-generation biobutanol production. , 2022, , 365-382. | | 2 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 253 | Modelling diffusion-limited gasification of carbons by branching pore models. The Chemical Engineering Journal and the Biochemical Engineering Journal, 1996, 64, 77-84. | 0.1 | 1 |
| 254 | Assessment of Sorbent Reactivation by Water Hydration for Fluidized Bed Combustion Application. , 2003, , 429. | | 1 |
| 255 | Shear-assisted fluidized bed powder-coating. Powder Technology, 2012, 215-216, 151-155. | 4.2 | 1 |
| 256 | Application of the Carbon Looping (CarboLoop) Concept in a Novel Twin-Bed Reactor. Energy Procedia, 2017, 120, 447-453. | 1.8 | 1 |
| 257 | Controlling thermal properties of dense gas fluidized beds for concentrated solar power by internal and external solids circulation. AIP Conference Proceedings, 2017, , . | 0.4 | 1 |
| 258 | Immobilization of carbonic anhydrase for enhancement of CO2 reactive absorption. New Biotechnology, 2018, 44, S44. | 4.4 | 1 |
| 259 | An Experimental Characterization of Powder/Substrate Interaction during Direct Metal Deposition for Additive Manufacturing. Key Engineering Materials, 0, 813, 435-440. | 0.4 | 1 |
| 260 | On how mild oxidation affects the structure of carbons: Comparative analysis by different techniques. Applications in Energy and Combustion Science, 2020, 1-4, 100006. | 1.5 | 1 |
| 261 | A tribute to Leopoldo Massimilla. Powder Technology, 1995, 82, 217-218. | 4.2 | 0 |
| 262 | Reply to the letter "Kinetics of decomposition measured using thermobalance"™ by Juan A. Conesa. Fuel, 2001, 80, 2125. | 6.4 | 0 |
| 263 | Set up of an experimental protocol for the investigation of graphite combustion in supersonic flow. Experimental Thermal and Fluid Science, 2014, 56, 9-15. | 2.7 | 0 |
| 264 | Continuous butanol production by Clostridium acetobutylicum in a series of packed bed reactors. New Biotechnology, 2016, 33, S60. | 4.4 | 0 |
| 265 | Torrefaction of a lignin-rich biogenic waste in a directly irradiated fluidized bed reactor. AIP Conference Proceedings, 2018, , . | 0.4 | 0 |
| 266 | A Grain-Scale Study of Swelling Composite Porous Media Made of Fibres and Particles. Computer Aided Chemical Engineering, 2020, , 583-588. | 0.5 | 0 |
| 267 | The Influence of Sorbent Properties and Reaction Conditions on Attrition of Limestone by Impact Loading in Fluidized Beds. , 2009, , 486-491. | | 0 |
| 268 | An Innovative Lab-Scale Apparatus for the Characterization of Calcium Looping Sorbents. Advanced Science Letters, 2017, 23, 5923-5926. | 0.2 | 0 |