# Piero Salatino

List of Publications by Year
in descending order



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|---|---|---|---|
| 268 papers | 7,542 citations | 50276 46 h-index | 106344 65 g-index |
| 279 all docs | 279 docs citations | 279 times ranked | 5121 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Performance of limestoneâ€based sorbent for sorptionâ€enhanced gasification in dual interconnected fluidized bed reactors. AIChE Journal, 2023, 69, e17588. | 3.6 | 8 |
| 2 | Dolomite-based binders manufactured using concentrated solar energy in a fluidised bed reactor. Solar Energy, 2022, 232, 471-482. | 6.1 | 4 |
| 3 | 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 |
| 4 | Sustainability assessment of biotechnological processes: LCA and LCC of second-generation biobutanol production. , 2022, , 365-382. | | 2 |
| 5 | Immobilization of carbonic anhydrase for CO2 capture and utilization. Applied Microbiology and Biotechnology, 2022, 106, 3419-3430. | 3.6 | 13 |
| 6 | 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 |
| 7 | 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 |
| 8 | Characterization of surface-oxides on char under periodically changing oxidation/desorption conditions. Renewable and Sustainable Energy Reviews, 2021, 137, 110453. | 16.4 | 5 |
| 9 | Modelling of a concentrated solar power â€“ photovoltaics hybrid plant for carbon dioxide capture and utilization via calcium looping and methanation. Energy Conversion and Management, 2021, 230, 113792. | 9.2 | 32 |
| 10 | SiPM-matrix readout of two-phase argon detectors using electroluminescence in the visible and near infrared range. European Physical Journal C, 2021, 81, 1. | 3.9 | 18 |
| 11 | Fluidized Beds for Concentrated Solar Thermal Technologiesâ€”A Review. Frontiers in Energy Research, 2021, 9, . | 2.3 | 42 |
| 12 | Continuous succinic acid production by immobilized cells of Actinobacillus succinogenes in a fluidized bed reactor: Entrapment in alginate beads. Biochemical Engineering Journal, 2021, 169, 107968. | 3.6 | 18 |
| 13 | A novel fluidized bed â€œthermochemical batteryâ€•for energy storage in concentrated solar thermal technologies. Energy Conversion and Management, 2021, 236, 113994. | 9.2 | 24 |
| 14 | In vivo immobilized carbonic anhydrase and its effect on the enhancement of CO2 absorption rate. Journal of Biotechnology, 2021, 336, 41-49. | 3.8 | 7 |
| 15 | Improving the performance of calcium looping for solar thermochemical energy storage and CO2 capture. Fuel, 2021, 298, 120791. | 6.4 | 36 |
| 16 | Bio-butanol recovery by adsorption/desorption processes. Separation and Purification Technology, 2020, 235, 116145. | 7.9 | 26 |
| 17 | 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 |
| 18 | Experimental and numerical study of a hybrid solar-combustor system for energy efficiency increasing. Fuel, 2020, 263, 116732. | 6.4 | 5 |

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| 19 | 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 |
| 20 | A Grain-Scale Study of Swelling Composite Porous Media Made of Fibres and Particles. Computer Aided Chemical Engineering, 2020, , 583-588. | 0.5 | 0 |
| 21 | 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 |
| 22 | 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 |
| 23 | Rotation-assisted Abrasive Fluidised Bed Machining of AlSi10Mg parts made through Selective Laser Melting Technology. Procedia Manufacturing, 2020, 47, 1043-1049. | 1.9 | 34 |
| 24 | A novel autothermal fluidized bed reactor for concentrated solar thermal applications. Chemical Engineering Journal, 2020, 398, 125702. | 12.7 | 31 |
| 25 | On the agglomeration tendency of carbonaceous fuels in fluidized beds. Fuel, 2020, 277, 118187. | 6.4 | 7 |
| 26 | Modelling and experimental characterization of unsaturated flow in absorbent and swelling porous media. Chemical Engineering Science, 2020, 224, 115765. | 3.8 | 3 |
| 27 | Impact fragmentation of limestone-based sorbents for calcium looping: The effect of steam and sulphur dioxide. Fuel Processing Technology, 2020, 208, 106499. | 7.2 | 12 |
| 28 | Design and construction of a new detector to measure ultra-low radioactive-isotope contamination of argon. Journal of Instrumentation, 2020, 15, P02024-P02024. | 1.2 | 19 |
| 29 | Modelling of a combined biomass CLC combustion and renewable-energy-based methane production system for CO2 utilization. Powder Technology, 2020, 373, 421-432. | 4.2 | 8 |
| 30 | Looping cycles for low carbon technologies: A survey of recent research activities in Naples. Fuel, 2020, 268, 117371. | 6.4 | 12 |
| 31 | Directly irradiated fluidized bed reactor for thermochemical energy storage and solar fuels production. Powder Technology, 2020, 366, 460-469. | 4.2 | 42 |
| 32 | Pyrolysis and combustion of a solid refinery waste. Fuel, 2020, 267, 117258. | 6.4 | 12 |
| 33 | Fluidized bed combustion of solid lignin-rich residues from bioethanol production. Powder Technology, 2020, 371, 170-179. | 4.2 | 7 |
| 34 | Continuous Succinic Acid Fermentation by Actinobacillus Succinogenes: Assessment of Growth and Succinic Acid Production Kinetics. Applied Biochemistry and Biotechnology, 2019, 187, 782-799. | 2.9 | 28 |
| 35 | The combined effect of H2O and SO2 on CO2 uptake and sorbent attrition during fluidised bed calcium looping. Proceedings of the Combustion Institute, 2019, 37, 4379-4387. | 3.9 | 23 |
| 36 | Fluidized bed CaO hydration-dehydration cycles for application to sorption-enhanced methanation. Combustion Science and Technology, 2019, 191, 1724-1733. | 2.3 | 5 |

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| 37 | Limestone calcinationâ€“carbonation in a fluidized bed reactor/receiver for thermochemical energy storage applications. AIP Conference Proceedings, 2019, , . | 0.4 | 2 |
| 38 | Fluidised bed machining of metal additive manufactured parts. AIP Conference Proceedings, 2019, , . | 0.4 | 27 |
| 39 | 110th Anniversary: Calcium Looping Coupled with Concentrated Solar Power for Carbon Capture and Thermochemical Energy Storage. Industrial & Engineering Chemistry Research, 2019, 58, 21262-21272. | 3.7 | 27 |
| 40 | Experimental characterization of granular materials for directly irradiated fluidized bed solar receivers. AIP Conference Proceedings, 2019, , . | 0.4 | 8 |
| 41 | Particle residence time distributions in a vortex-based solar particle receiver-reactor: The influence of receiver tilt angle. Solar Energy, 2019, 190, 126-138. | 6.1 | 12 |
| 42 | Efficient succinic acid production from highâ€sugarâ€content beverages by Actinobacillus succinogenes. Biotechnology Progress, 2019, 35, e2863. | 2.6 | 14 |
| 43 | Solar-Driven Torrefaction of a Lignin-Rich Biomass Residue in a Directly Irradiated Fluidized Bed Reactor. Combustion Science and Technology, 2019, 191, 1609-1627. | 2.3 | 18 |
| 44 | Influence of Abrasive Materials in Fluidised Bed Machining of AlSi10Mg Parts Made through Selective Laser Melting Technology. Key Engineering Materials, 2019, 813, 129-134. | 0.4 | 13 |
| 45 | Effect of exposure to SO2 and H2O during the carbonation stage of fluidised bed calcium looping on the performance of sorbents of different nature. Chemical Engineering Journal, 2019, 377, 120626. | 12.7 | 19 |
| 46 | Modelling entrained-flow slagging gasification of solid fuels with near-wall particle segregation. Chemical Engineering Journal, 2019, 377, 119962. | 12.7 | 15 |
| 47 | Poly-Î²-hydroxybutyrate (PHB) production by Synechocystis PCC6803 from CO2: Model development. Algal Research, 2018, 29, 49-60. | 4.6 | 37 |
| 48 | Characterization of calcium looping sorbents with a novel twin bed reactor. Fuel Processing Technology, 2018, 172, 49-54. | 7.2 | 7 |
| 49 | Bio-butanol separation by adsorption on various materials: Assessment of isotherms and effects of other ABE-fermentation compounds. Separation and Purification Technology, 2018, 191, 328-339. | 7.9 | 39 |
| 50 | An experimental characterization of Calcium Looping integrated with concentrated solar power. Chemical Engineering Journal, 2018, 331, 794-802. | 12.7 | 65 |
| 51 | Characterization of technical grade carbonic anhydrase as biocatalyst for CO<sub>2</sub> capture in potassium carbonate solutions. , 2018, 8, 279-291. | | 14 |
| 52 | Torrefaction of a lignin-rich biogenic waste in a directly irradiated fluidized bed reactor. AIP Conference Proceedings, 2018, , . | 0.4 | 0 |
| 53 | Evolution of the academic FabLab at University of Naples Federico II. Journal of Physics: Conference Series, 2018, 1065, 022013. | 0.4 | 2 |
| 54 | Immobilization of carbonic anhydrase for enhancement of CO2 reactive absorption. New Biotechnology, 2018, 44, S44. | 4.4 | 1 |

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| 55 | Pyrolysis and Thermal Annealing of Coal and Biomass in CO<sub>2</sub>-Rich Atmospheres. Energy & Fuels, 2018, 32, 10701-10708. | 5.1 | 25 |
| 56 | Kinetic characterization of carbonic anhydrase immobilized on magnetic nanoparticles as biocatalyst for CO2 capture. Biochemical Engineering Journal, 2018, 138, 1-11. | 3.6 | 29 |
| 57 | Modelling oxy-pyrolysis of sewage sludge in a rotary kiln reactor. Fuel, 2018, 231, 468-478. | 6.4 | 19 |
| 58 | Continuous succinic acid fermentation by Actinobacillus succinogenes in a packed-bed biofilm reactor. Biotechnology for Biofuels, 2018, 11, 138. | 6.2 | 59 |
| 59 | DarkSide-20k: A 20 tonne two-phase LAr TPC for direct dark matter detection at LNGS. European Physical Journal Plus, 2018, 133, 1. | 2.6 | 247 |
| 60 | Solar-driven production of lime for ordinary Portland cement formulation. Solar Energy, 2018, 173, 759-768. | 6.1 | 35 |
| 61 | Effect of steam on the performance of Ca-based sorbents in calcium looping processes. Powder Technology, 2017, 316, 578-584. | 4.2 | 29 |
| 62 | Combustion of lignin-rich residues with coal in a pilot-scale bubbling fluidized bed reactor. Powder Technology, 2017, 316, 718-724. | 4.2 | 11 |
| 63 | A twin-bed test reactor for characterization of calcium looping sorbents. Powder Technology, 2017, 316, 585-591. | 4.2 | 16 |
| 64 | X-ray imaging of horizontal jets in gas fluidised bed nozzles. Chemical Engineering Science, 2017, 164, 53-62. | 3.8 | 17 |
| 65 | Particleâ€“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 |
| 66 | Biosuccinic Acid from Lignocellulosic-Based Hexoses and Pentoses by Actinobacillus succinogenes: Characterization of the Conversion Process. Applied Biochemistry and Biotechnology, 2017, 183, 1465-1477. | 2.9 | 37 |
| 67 | Numerical simulation of hydrogen production by chemical looping reforming in a dual fluidized bed reactor. Powder Technology, 2017, 316, 614-627. | 4.2 | 12 |
| 68 | Mechanism and Thermochemistry of Coal Char Oxidation and Desorption of Surface Oxides. Energy & Fuels, 2017, 31, 2308-2316. | 5.1 | 11 |
| 69 | Hydrodynamics of compartmented fluidized beds under uneven fluidization conditions. Powder Technology, 2017, 316, 476-491. | 4.2 | 16 |
| 70 | Mixing and segregation in fluidized bed thermochemical conversion of biomass. Powder Technology, 2017, 316, 29-40. | 4.2 | 42 |
| 71 | Fluidised bed drying of powdered materials: Effects of operating conditions. Powder Technology, 2017, 308, 158-164. | 4.2 | 13 |
| 72 | Directly irradiated fluidized bed reactors for thermochemical processing and energy storage: Application to calcium looping. AIP Conference Proceedings, 2017, , . | 0.4 | 24 |

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| 73 | 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 |
| 74 | Application of the Carbon Looping (CarboLoop) Concept in a Novel Twin-Bed Reactor. Energy Procedia, 2017, 120, 447-453. | 1.8 | 1 |
| 75 | Structure and activity of magnetic cross-linked enzyme aggregates of bovine carbonic anhydrase as promoters of enzymatic CO 2 capture. Biochemical Engineering Journal, 2017, 127, 188-195. | 3.6 | 26 |
| 76 | The effect of steam on CO2 uptake and sorbent attrition in fluidised bed calcium looping: The influence of process conditions and sorbent properties. Separation and Purification Technology, 2017, 189, 101-107. | 7.9 | 22 |
| 77 | Experimental characterization of particle-wall interaction relevant to entrained-flow gasification of biomass. Fuel, 2017, 209, 674-684. | 6.4 | 12 |
| 78 | Impact experiments of char and ash particles relevant to entrained-flow coal gasifiers. Fuel, 2017, 202, 665-674. | 6.4 | 17 |
| 79 | Comparison of pyrolysis test rigs for oxy-fuel conditions. Fuel Processing Technology, 2017, 156, 461-472. | 7.2 | 26 |
| 80 | Relevance of structure, fragmentation and reactivity of coal to combustion and oxy-combustion. Fuel, 2017, 201, 65-80. | 6.4 | 51 |
| 81 | 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 |
| 82 | Cryogenic Characterization of FBK RGB-HD SiPMs. Journal of Instrumentation, 2017, 12, P09030-P09030. | 1.2 | 16 |
| 83 | 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 |
| 84 | Performance of Ca-Based Sorbents for Calcium Looping Processes: Role of Steam. Advanced Science Letters, 2017, 23, 5920-5922. | 0.2 | 2 |
| 85 | An Innovative Lab-Scale Apparatus for the Characterization of Calcium Looping Sorbents. Advanced Science Letters, 2017, 23, 5923-5926. | 0.2 | 0 |
| 86 | Heat transfer in directly irradiated fluidized beds. Solar Energy, 2016, 129, 85-100. | 6.1 | 60 |
| 87 | Continuous butanol production by Clostridium acetobutylicum in a series of packed bed reactors. New Biotechnology, 2016, 33, S60. | 4.4 | 0 |
| 88 | A single particle model of lime sulphation with a fractal formulation of product layer diffusion. Chemical Engineering Science, 2016, 156, 115-120. | 3.8 | 17 |
| 89 | Butanol production by Clostridium acetobutylicum in a series of packed bed biofilm reactors. Chemical Engineering Science, 2016, 152, 678-688. | 3.8 | 25 |
| 90 | Modeling of slurry staged bubble column for biomimetic CO 2 capture. International Journal of Greenhouse Gas Control, 2016, 47, 200-209. | 4.6 | 17 |

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| 91 | Improving the thermal performance of fluidized beds for concentrated solar power and thermal energy storage. Powder Technology, 2016, 290, 97-101. | 4.2 | 46 |
| 92 | Multiphase flow patterns in entrained-flow slagging gasifiers: Physical modelling of particleâ€“wall impact at near-ambient conditions. Fuel Processing Technology, 2016, 141, 106-116. | 7.2 | 25 |
| 93 | Photobioreactors for microalgal cultures: A Lagrangian model coupling hydrodynamics and kinetics. Biotechnology Progress, 2015, 31, 1259-1272. | 2.6 | 27 |
| 94 | Reactivation by Steam Hydration of Sorbents for Fluidized-Bed Calcium Looping. Energy & Fuels, 2015, 29, 4436-4446. | 5.1 | 35 |
| 95 | Butanol production from hexoses and pentoses by fermentation of Clostridium acetobutylicum. Anaerobe, 2015, 34, 146-155. | 2.1 | 43 |
| 96 | Continuous lactose fermentation by Clostridium acetobutylicum â€“ Assessment of solventogenic kinetics. Bioresource Technology, 2015, 180, 330-337. | 9.6 | 16 |
| 97 | Continuous xylose fermentation by Clostridium acetobutylicum â€“ Assessment of solventogenic kinetics. Bioresource Technology, 2015, 192, 142-148. | 9.6 | 16 |
| 98 | Probing the chemical nature of surface oxides during coal char oxidation by high-resolution XPS. Carbon, 2015, 90, 181-196. | 10.3 | 88 |
| 99 | Mathematical modeling of a two-stage fuel reactor for chemical looping combustion with oxygen uncoupling of solid fuels. Applied Energy, 2015, 157, 449-461. | 10.1 | 30 |
| 100 | Eulerian Modeling of Lateral Solid Mixing in Gas-fluidized Suspensions. Procedia Engineering, 2015, 102, 1491-1499. | 1.2 | 5 |
| 101 | Kinetic study of butanol production from various sugars by Clostridium acetobutylicum using a dynamic model. Biochemical Engineering Journal, 2015, 99, 156-166. | 3.6 | 32 |
| 102 | A model of integrated calcium looping for CO 2 capture and concentrated solar power. Solar Energy, 2015, 120, 208-220. | 6.1 | 57 |
| 103 | Immobilization of aPleurotus ostreatusLaccase Mixture on Perlite and Its Application to Dye Decolourisation. BioMed Research International, 2014, 2014, 1-11. | 1.9 | 40 |
| 104 | Advances in photobioreactors for intensive microalgal production: configurations, operating strategies and applications. Journal of Chemical Technology and Biotechnology, 2014, 89, 178-195. | 3.2 | 124 |
| 105 | Reactivation by water hydration of the CO2 capture capacity of a calcium looping sorbent. Fuel, 2014, 127, 109-115. | 6.4 | 48 |
| 106 | A lab-scale cold flow model reactor to investigate near-wall particle segregation relevant to entrained-flow slagging coal gasifiers. Fuel, 2014, 117, 1267-1273. | 6.4 | 13 |
| 107 | Continuous xylose fermentation by Clostridium acetobutylicum â€“ Kinetics and energetics issues under acidogenesis conditions. Bioresource Technology, 2014, 164, 155-161. | 9.6 | 17 |
| 108 | Analysis of the energy efficiency of solar aided biomass gasification for pure hydrogen production. International Journal of Hydrogen Energy, 2014, 39, 14622-14632. | 7.1 | 20 |

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| 109 | Immobilization of carbonic anhydrase for biomimetic CO2 capture in slurry absorber. New Biotechnology, 2014, 31, S20-S21. | 4.4 | 2 |
| 110 | Wall effects in entrained particle-laden flows: The role of particle stickiness on solid segregation and build-up of wall deposits. Powder Technology, 2014, 266, 282-291. | 4.2 | 17 |
| 111 | Numerical simulations of lateral solid mixing in gas-fluidized beds. Chemical Engineering Science, 2014, 120, 117-129. | 3.8 | 29 |
| 112 | Flow Structures and Mixing Patterns in the Freeboard of Gas-Fluidized Bed Reactors. Industrial & Engineering Chemistry Research, 2014, 53, 9296-9302. | 3.7 | 4 |
| 113 | Hydration-induced reactivation of spent sorbents for fluidized bed calcium looping (double looping). Fuel Processing Technology, 2014, 120, 71-78. | 7.2 | 34 |
| 114 | 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 |
| 115 | Gas and solid flow patterns in the loop-seal of a circulating fluidized bed. Powder Technology, 2014, 264, 197-202. | 4.2 | 31 |
| 116 | Fluidized bed calcium looping cycles for CO2 capture under oxy-firing calcination conditions: Part 1. Assessment of six limestones. Chemical Engineering Journal, 2013, 231, 537-543. | 12.7 | 54 |
| 117 | Entrained-flow gasification of coal under slagging conditions: Relevance of fuelâ€“wall interaction and char segregation to the properties of solid wastes. Fuel, 2013, 114, 44-55. | 6.4 | 15 |
| 118 | Performance of Natural Sorbents during Calcium Looping Cycles: A Comparison between Fluidized Bed and Thermo-Gravimetric Tests. Energy & Fuels, 2013, 27, 6048-6054. | 5.1 | 31 |
| 119 | Post-combustion carbon capture mediated by carbonic anhydrase. Separation and Purification Technology, 2013, 107, 331-339. | 7.9 | 75 |
| 120 | Fluidized bed calcium looping cycles for CO2 capture under oxy-firing calcination conditions: Part 2. Assessment of dolomite vs. limestone. Chemical Engineering Journal, 2013, 231, 544-549. | 12.7 | 31 |
| 121 | Butanol production by bioconversion of cheese whey in a continuous packed bed reactor. Bioresource Technology, 2013, 138, 259-265. | 9.6 | 67 |
| 122 | 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 |
| 123 | A comparative characterization study of Ca-looping natural sorbents. Applied Energy, 2013, 108, 373-382. | 10.1 | 38 |
| 124 | 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 |
| 125 | CFD simulation of bubbling fluidized bidisperse mixtures: Effect of integration methods and restitution coefficient. Chemical Engineering Science, 2013, 102, 324-334. | 3.8 | 41 |
| 126 | Particulate and gaseous emissions during fluidized bed combustion of semi-dried sewage sludge: Effect of bed ash accumulation on NOx formation. Waste Management, 2013, 33, 1397-1402. | 7.4 | 22 |

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| 127 | Kinetic study of a novel thermo-stable Î±-carbonic anhydrase for biomimetic CO2 capture. Enzyme and Microbial Technology, 2013, 53, 271-277. | 3.2 | 35 |
| 128 | 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 |
| 129 | Attrition phenomena relevant to fluidized bed combustion and gasification systems. , 2013, , 254-315. | | 15 |
| 130 | A TECHNO-ECONOMIC ANALYSIS OF BIODIESEL PRODUCTION FROM MICROALGAE. Environmental Engineering and Management Journal, 2013, 12, 1563-1573. | 0.6 | 9 |
| 131 | CO2 CAPTURE BY BIOMIMETIC ADSORPTION: ENZYME MEDIATED CO2 ABSORPTION FOR POST-COMBUSTION CARBON SEQUESTRATION AND STORAGE PROCESS. Environmental Engineering and Management Journal, 2013, 12, 1595-1603. | 0.6 | 7 |
| 132 | Attrition of Limestone During Fluidized Bed Calcium Looping Cycles for CO<sub>2</sub>Capture. Combustion Science and Technology, 2012, 184, 929-941. | 2.3 | 45 |
| 133 | Investigation of Charâ€“Slag Interaction Regimes in Entrained-Flow Gasifiers: Linking Experiments with Numerical Simulations. Combustion Science and Technology, 2012, 184, 871-887. | 2.3 | 14 |
| 134 | Fluidized bed calcium looping: The effect of SO 2 on sorbent attrition and CO 2 capture capacity. Chemical Engineering Journal, 2012, 207-208, 445-449. | 12.7 | 58 |
| 135 | Beneficiation of coal fly ashes by oxygen chemisorption. Experimental Thermal and Fluid Science, 2012, 43, 76-81. | 2.7 | 4 |
| 136 | Analysis of an Explosion in a Wool-Processing Plant. Industrial & Engineering Chemistry Research, 2012, 51, 7713-7718. | 3.7 | 12 |
| 137 | Fluidized bed combustion and fragmentation of wet sewage sludge. Experimental Thermal and Fluid Science, 2012, 43, 97-104. | 2.7 | 39 |
| 138 | Gasification of Waste Biomass Chars by Carbon Dioxide via Thermogravimetryâ€”Effect of Catalysts. Combustion Science and Technology, 2012, 184, 64-77. | 2.3 | 22 |
| 139 | Strategies for dephenolization of raw olive mill wastewater by means of <i>Pleurotus ostreatus</i>. Journal of Industrial Microbiology and Biotechnology, 2012, 39, 719-729. | 3.0 | 24 |
| 140 | The attrition behaviour of oxygen-carriers under inert and reacting conditions. Chemical Engineering Science, 2012, 71, 449-467. | 3.8 | 49 |
| 141 | Continuous lactose fermentation by Clostridium acetobutylicumâ€”Assessment of energetics and product yields of the acidogenesis. Enzyme and Microbial Technology, 2012, 50, 165-172. | 3.2 | 16 |
| 142 | Shear-assisted fluidized bed powder-coating. Powder Technology, 2012, 215-216, 151-155. | 4.2 | 1 |
| 143 | Characterization of the devolatilization rate of solid fuels in fluidized beds by timeâ€resolved pressure measurements. AICHE Journal, 2012, 58, 632-645. | 3.6 | 15 |
| 144 | OPTIMIZATION OF SOLVENT RECOVERY IN THE PRODUCTION OF BUTANOL BY FERMENTATION. Environmental Engineering and Management Journal, 2012, 11, 1499-1504. | 0.6 | 9 |

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| 145 | A Population Balance Model on Sorbent in CFB Combustors: The Influence of Particle Attrition. Industrial & Engineering Chemistry Research, 2011, 50, 9704-9711. | 3.7 | 21 |
| 146 | Charâ€“Wall Interaction and Properties of Slag Waste in Entrained-Flow Gasification of Coal. Energy & Fuels, 2011, 25, 3671-3677. | 5.1 | 47 |
| 147 | Unstable steady state operations of substrate inhibited cultures by dissolved oxygen control. Journal of Biotechnology, 2011, 156, 302-308. | 3.8 | 5 |
| 148 | A semi-detailed kinetic model of char combustion with consideration of thermal annealing. Proceedings of the Combustion Institute, 2011, 33, 1763-1770. | 3.9 | 27 |
| 149 | Modeling of an aerobic biofilm reactor with doubleâ€limiting substrate kinetics: Bifurcational and dynamical analysis. Biotechnology Progress, 2011, 27, 1599-1613. | 2.6 | 26 |
| 150 | Effects of viscosity and relaxation time on the hydrodynamics of gasâ€“liquid systems. Chemical Engineering Science, 2011, 66, 3392-3399. | 3.8 | 35 |
| 151 | Continuous lactose fermentation by Clostridium acetobutylicum â€“ Assessment of acidogenesis kinetics. Bioresource Technology, 2011, 102, 1608-1614. | 9.6 | 32 |
| 152 | Primary fragmentation of limestone under oxy-firing conditions in a bubbling fluidized bed. Fuel Processing Technology, 2011, 92, 1449-1456. | 7.2 | 31 |
| 153 | Mechanochemical activation of high-carbon fly ash for enhanced carbon reburning. Proceedings of the Combustion Institute, 2011, 33, 2743-2753. | 3.9 | 18 |
| 154 | Flue gas desulfurization under simulated oxyfiring fluidized bed combustion conditions: The influence of limestone attrition and fragmentation. Chemical Engineering Science, 2010, 65, 556-561. | 3.8 | 37 |
| 155 | Analysis of charâ€“slag interaction and near-wall particle segregation in entrained-flow gasification of coal. Combustion and Flame, 2010, 157, 874-883. | 5.2 | 61 |
| 156 | Butanol production by Clostridium acetobutylicum in a continuous packed bed reactor. Journal of Industrial Microbiology and Biotechnology, 2010, 37, 603-608. | 3.0 | 64 |
| 157 | A novel threeâ€phase airlift reactor without circulation of solids. Canadian Journal of Chemical Engineering, 2010, 88, 574-578. | 1.7 | 6 |
| 158 | Limestone fragmentation and attrition during fluidized bed oxyfiring. Fuel, 2010, 89, 827-832. | 6.4 | 27 |
| 159 | Attrition of limestones by impact loading in fluidized beds: The influence of reaction conditions. Fuel Processing Technology, 2010, 91, 1022-1027. | 7.2 | 22 |
| 160 | The influence of temperature on limestone sulfation and attrition under fluidized bed combustion conditions. Experimental Thermal and Fluid Science, 2010, 34, 352-358. | 2.7 | 50 |
| 161 | Devolatilization and ash comminution of two different sewage sludges under fluidized bed combustion conditions. Experimental Thermal and Fluid Science, 2010, 34, 387-395. | 2.7 | 13 |
| 162 | CFD simulations of segregating fluidized bidisperse mixtures of particles differing in size. Chemical Engineering Journal, 2010, 156, 432-445. | 12.7 | 51 |

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| 163 | The influence of reactivation by hydration of spent SO2 sorbents on their impact fragmentation in fluidized bed combustors. Chemical Engineering Journal, 2010, 162, 1067-1074. | 12.7 | 9 |
| 164 | Bioreactors for Azo-Dye Conversion. Handbook of Environmental Chemistry, 2010, , 101-131. | 0.4 | 4 |
| 165 | Bioenergy II: An Assessment of the Kinetics of Butanol Production by Clostridium acetobutylicum. International Journal of Chemical Reactor Engineering, 2009, 7, . | 1.1 | 5 |
| 166 | Limestone Attrition under Simulated Oxyfiring Fluidized-Bed Combustion Conditions. Chemical Engineering and Technology, 2009, 32, 380-385. | 1.5 | 4 |
| 167 | Steam hydrationâ€“reactivation of FBC ashes for enhanced in situ desulphurization. Fuel, 2009, 88, 1092-1098. | 6.4 | 26 |
| 168 | A fluid-bed continuous classifier of polydisperse granular solids. Journal of the Taiwan Institute of Chemical Engineers, 2009, 40, 638-644. | 5.3 | 17 |
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