Jamal Chaouki

List of Publications by Year in descending order

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274 papers 7,960 citations

43973 48 h-index 71 g-index

280 all docs

280 docs citations

times ranked

280

4776 citing authors

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Noninvasive Tomographic and Velocimetric Monitoring of Multiphase Flows. Industrial & Samp; Engineering Chemistry Research, 1997, 36, 4476-4503. | 1.8 | 250 |
| 2 | Effect of interparticle forces on the hydrodynamic behaviour of fluidized aerogels. Powder Technology, 1985, 43, 117-125. | 2.1 | 205 |
| 3 | Experimental methods in chemical engineering: Thermogravimetric analysis—TGA. Canadian Journal of Chemical Engineering, 2020, 98, 34-43. | 0.9 | 146 |
| 4 | Biomass gasification in a bubbling fluidized bed reactor: Experiments and modeling. AICHE Journal, 2006, 52, 4258-4272. | 1.8 | 145 |
| 5 | Extraction of phenols from lignin microwave-pyrolysis oil using a switchable hydrophilicity solvent. Bioresource Technology, 2014, 154, 101-108. | 4.8 | 144 |
| 6 | Local solid mixing in gas–solid fluidized beds. Powder Technology, 2001, 114, 23-31. | 2.1 | 132 |
| 7 | Characterization of dynamic gas–solid distribution in fluidized beds. Chemical Engineering Journal, 2000, 79, 133-143. | 6.6 | 126 |
| 8 | Axial dispersion in the three-dimensional mixing of particles in a rotating drum reactor. Chemical Engineering Science, 2003, 58, 401-415. | 1.9 | 125 |
| 9 | A Î ³ -ray detection system for 3-D particle tracking in multiphase reactors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1994, 338, 568-576. | 0.7 | 115 |
| 10 | Scaling considerations for circulating fluidized bed risers. Powder Technology, 1992, 72, 31-37. | 2.1 | 114 |
| 11 | Large-scale numerical investigation of solids mixing in a V-blender using the discrete element method. Powder Technology, 2008, 181, 205-216. | 2.1 | 114 |
| 12 | Phosphorous modified ZSM-5: Deactivation and product distribution for MTO. Chemical Engineering Science, 2007, 62, 5527-5532. | 1.9 | 111 |
| 13 | Comparative study of the mixing of free-flowing particles in a V-blender and a bin-blender. Chemical Engineering Science, 2007, 62, 1783-1802. | 1.9 | 97 |
| 14 | A unified lumped approach in kinetic modeling of biomass pyrolysis. Fuel, 2006, 85, 1211-1220. | 3.4 | 92 |
| 15 | Temperature profile prediction within selected materials heated by microwaves at 2.45GHz. Applied Thermal Engineering, 2012, 36, 360-369. | 3.0 | 85 |
| 16 | Simulation of circulating fluidized bed reactors using ASPEN PLUS. Fuel, 1998, 77, 327-337. | 3.4 | 84 |
| 17 | Dynamics of non-spherical particles in a rotating drum. Chemical Engineering Science, 2013, 101, 486-502. | 1.9 | 83 |
| 18 | Comparison of DEM results and Lagrangian experimental data for the flow and mixing of granules in a rotating drum. AICHE Journal, 2014, 60, 60-75. | 1.8 | 83 |

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| 19 | Characterization of Mixing and Size Segregation in a Rotating Drum by a Particle Tracking Method. AICHE Journal, 2013, 59, 1894-1905. | 1.8 | 82 |
| 20 | Catalytic storage of hydrogen: Hydrogenation of toluene over a nickel/silica aerogel catalyst in integral flow conditions. Applied Catalysis, 1988, 42, 121-130. | 1.1 | 81 |
| 21 | Multiscale multiphase phenomena in bubble column reactors: A review. Renewable Energy, 2019, 141, 613-631. | 4.3 | 81 |
| 22 | Characterization of solids mixing patterns in bubbling fluidized beds. Chemical Engineering Research and Design, 2011, 89, 817-826. | 2.7 | 79 |
| 23 | Characterization of the Flow Transition between Bubbling and Turbulent Fluidization. Industrial & Engineering Chemistry Research, 1994, 33, 1889-1896. | 1.8 | 76 |
| 24 | Flow structure of the solids in gas–solid fluidized beds. Chemical Engineering Science, 2004, 59, 4217-4227. | 1.9 | 75 |
| 25 | Detailed compositional analysis and structural investigation of a bio-oil from microwave pyrolysis of kraft lignin. Journal of Analytical and Applied Pyrolysis, 2014, 109, 249-257. | 2.6 | 75 |
| 26 | Effects of temperature, pressure, and interparticle forces on the hydrodynamics of a gas-solid fluidized bed. Chemical Engineering Journal, 2017, 313, 580-590. | 6.6 | 74 |
| 27 | Gas phase hydrodynamics in the riser of a circulating fluidized bed. Chemical Engineering Science, 1993, 48, 3195-3205. | 1.9 | 73 |
| 28 | 3-D mapping of solids flow fields in multiphase reactors with RPT. AICHE Journal, 1995, 41, 439-443. | 1.8 | 73 |
| 29 | A study of solid behavior in spouted beds using 3â€D particle tracking. Canadian Journal of Chemical Engineering, 1994, 72, 945-952. | 0.9 | 72 |
| 30 | Hydrodynamics of a gas–solid fluidized bed with thermally induced interparticle forces. Chemical Engineering Journal, 2015, 259, 135-152. | 6.6 | 69 |
| 31 | Heat transfer from a circulating fluidized bed to membrane waterwall surfaces. AICHE Journal, 1987, 33, 1888-1893. | 1.8 | 68 |
| 32 | Lumped Approach in Kinetic Modeling of Microwave Pyrolysis of Kraft Lignin. Energy & Samp; Fuels, 2014, 28, 1406-1417. | 2.5 | 68 |
| 33 | Modeling the catalytic oxidation of n-butane to maleic anhydride in a circulating fluidized bed reactor. Industrial & mp; Engineering Chemistry Research, 1992, 31, 2652-2660. | 1.8 | 66 |
| 34 | Sand-assisted fluidization of large cylindrical and spherical biomass particles: Experiments and simulation. Chemical Engineering Science, 2015, 126, 543-559. | 1.9 | 66 |
| 35 | Traveling column for comparison of invasive and non-invasive fluidization voidage measurement techniques. Powder Technology, 2013, 235, 203-220. | 2.1 | 65 |
| 36 | From sol-gel to aerogels and cryogels. Journal of Non-Crystalline Solids, 1990, 121, 66-67. | 1.5 | 60 |

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| 37 | Gas phase hydrodynamics of a gas-solid turbulent fluidized bed reactor. Chemical Engineering Science, 1996, 51, 713-723. | 1.9 | 59 |
| 38 | Kinetic Modeling of Methanol-to-Olefin Reaction over ZSM-5 in Fluid Bed. Industrial & Engineering Chemistry Research, 2010, 49, 29-38. | 1.8 | 59 |
| 39 | Fabrication of mullite-bonded porous SiC ceramics via a sol–gel assisted in situ reaction bonding. Journal of the European Ceramic Society, 2014, 34, 237-247. | 2.8 | 59 |
| 40 | Combustion of methane over La0.66Sr0.34Ni0.3Co0.7O3 and La0.4Sr0.6Fe0.4Co0.6O3 prepared by freeze-drying. Applied Catalysis A: General, 1994, 109, 181-193. | 2.2 | 58 |
| 41 | A Comparison of Two- and Single-Phase Models for Fluidized-Bed Reactors. Industrial & Engineering Chemistry Research, 2001, 40, 5526-5532. | 1.8 | 57 |
| 42 | Verification of fluidized bed electrical capacitance tomography measurements with a fibre optic probe. Chemical Engineering Science, 2003, 58, 3923-3934. | 1.9 | 57 |
| 43 | Evaluation of some cobalt and nickel based perovskites prepared by freeze-drying as combustion catalysts. Catalysis Letters, 1993, 21, 77-87. | 1.4 | 56 |
| 44 | Experimental Characterization of the Solid Phase Chaotic Dynamics in Three-Phase Fluidization. Industrial & Engineering Chemistry Research, 1995, 34, 2971-2980. | 1.8 | 54 |
| 45 | Distribution of large biomass particles in a sandâ€biomass fluidized bed: Experiments and modeling. AICHE Journal, 2014, 60, 869-880. | 1.8 | 53 |
| 46 | Major trends and roadblocks in CFD-aided process intensification of biomass pyrolysis. Chemical Engineering and Processing: Process Intensification, 2018, 127, 206-212. | 1.8 | 52 |
| 47 | Electrification of materials processing via microwave irradiation: A review of mechanism and applications. Applied Thermal Engineering, 2021, 193, 117003. | 3.0 | 50 |
| 48 | Flow structure of the solids in a 3-D gas–liquid–solid fluidized bed. AICHE Journal, 1996, 42, 2439-2452. | 1.8 | 49 |
| 49 | Gas and solids between dynamic bubble and emulsion in gas-fluidized beds. Powder Technology, 2001, 120, 12-20. | 2.1 | 49 |
| 50 | On the Axial Movement of Solids in Gas-Solid Fluidized Beds. Chemical Engineering Research and Design, 2000, 78, 911-920. | 2.7 | 48 |
| 51 | An extended radioactive particle tracking method for systems with irregular moving boundaries. Powder Technology, 2008, 181, 195-204. | 2.1 | 45 |
| 52 | The effect of biomass particles on the gas distribution and dilute phase characteristics of sandâ€"biomass mixtures fluidized in the bubbling regime. Chemical Engineering Science, 2013, 102, 129-138. | 1.9 | 45 |
| 53 | Investigation of particle velocity in FCC gas-fluidized beds based on different measurement techniques. Chemical Engineering Science, 2015, 127, 310-322. | 1.9 | 45 |
| 54 | Experimental Methods in Chemical Engineering: Discrete Element Methodâ€"DEM. Canadian Journal of Chemical Engineering, 2019, 97, 1964-1973. | 0.9 | 44 |

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| 55 | Economics evaluation for on-site pyrolysis of kraft lignin to value-added chemicals. Bioresource Technology, 2015, 175, 254-261. | 4.8 | 42 |
| 56 | Upgrading of Oils from Biomass and Waste: Catalytic Hydrodeoxygenation. Catalysts, 2020, 10, 1381. | 1.6 | 42 |
| 57 | The effects of liquid phase rheology on the hydrodynamics of a gas–liquid bubble column reactor. Chemical Engineering Science, 2015, 129, 193-207. | 1.9 | 41 |
| 58 | Fluidization characteristics of a bubbling gas–solid fluidized bed at high temperature in the presence of interparticle forces. Chemical Engineering Journal, 2016, 288, 344-358. | 6.6 | 40 |
| 59 | Microwave Heating-Assisted Catalytic Dry Reforming of Methane to Syngas. Scientific Reports, 2018, 8, 8940. | 1.6 | 40 |
| 60 | Fast Pyrolysis of Lignocellulosic Biomass for the Production of Energy and Chemicals: A Critical Review. Current Organic Chemistry, 2016, 20, 2458-2479. | 0.9 | 40 |
| 61 | On-line flow visualization in multiphase reactors using neural networks. Applied Radiation and Isotopes, 1997, 48, 225-235. | 0.7 | 39 |
| 62 | Update on Spent Potliners Treatments:  Kinetics of Cyanides Destruction at High Temperature. Industrial & Destruction at High Temperature. | 1.8 | 39 |
| 63 | An experimental investigation of effusivity as an indicator of powder blend uniformity. Powder Technology, 2008, 181, 149-159. | 2.1 | 39 |
| 64 | Investigating the dynamics of cylindrical particles in a rotating drum using multiple radioactive particle tracking. AICHE Journal, 2016, 62, 2622-2634. | 1.8 | 39 |
| 65 | Local characterization of a gas–solid fluidized bed in the presence of thermally induced interparticle forces. Chemical Engineering Science, 2014, 119, 261-273. | 1.9 | 38 |
| 66 | A modified microwave thermo-gravimetric-analyzer for kineticÂpurposes. Applied Thermal Engineering, 2015, 75, 65-72. | 3.0 | 38 |
| 67 | Impact of the heating mechanism on the yield and composition of bio-oil from pyrolysis of kraft lignin. Biomass and Bioenergy, 2016, 95, 344-353. | 2.9 | 38 |
| 68 | Development of a microwave thermogravimetric analyzer and its application on polystyrene microwave pyrolysis kinetics. Journal of Analytical and Applied Pyrolysis, 2018, 130, 209-215. | 2.6 | 38 |
| 69 | Prediction of effective drag coefficient in fluidized beds. Chemical Engineering Science, 1999, 54, 851-858. | 1.9 | 37 |
| 70 | Experimental investigation on solid dispersion, power consumption and scale-up in moderate to dense solid–liquid suspensions. Chemical Engineering Research and Design, 2012, 90, 201-212. | 2.7 | 37 |
| 71 | Mixing and circulation of solids in spouted beds: particle tracking and Monte Carlo emulation of the gross flow pattern. Chemical Engineering Science, 2003, 58, 1497-1507. | 1.9 | 36 |
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| 74 | An investigation of magnesium stearate mixing in a V-blender through gamma-ray detection. Powder Technology, 2010, 200, 234-245. | 2.1 | 35 |
| 75 | Distributed Microwave Pyrolysis of Domestic Waste. Waste and Biomass Valorization, 2014, 5, 1-10. | 1.8 | 35 |
| 76 | A CPFD model for a bubbly biomass–sand fluidized bed. Powder Technology, 2015, 275, 39-50. | 2.1 | 35 |
| 77 | New technique for simultaneous measurement of the local solid and gas holdup by using optical fiber probes in the slurry bubble column. Chemical Engineering Journal, 2019, 358, 831-841. | 6.6 | 35 |
| 78 | Fiber-supported perovskites for catalytic combustion of natural gas. Catalysis Today, 1999, 47, 115-121. | 2.2 | 34 |
| 79 | Spent potliner treatment process optimization using a MADS algorithm. Optimization and Engineering, 2008, 9, 143-160. | 1.3 | 34 |
| 80 | Discrete element simulation of particle mixing and segregation in a tetrapodal blender. Computers and Chemical Engineering, 2014, 64, 1-12. | 2.0 | 34 |
| 81 | Effect of microwave heating on the performance of catalytic oxidation of n-butane in a gas-solid fluidized bed reactor. Chemical Engineering Science, 2018, 192, 1177-1188. | 1.9 | 34 |
| 82 | Position and velocity of a large particle in a gas/solid riser using the radioactive particle tracking technique. Canadian Journal of Chemical Engineering, 1999, 77, 253-261. | 0.9 | 33 |
| 83 | Development of a fluidized bed thermogravimetric analyzer. AICHE Journal, 2015, 61, 84-89. | 1.8 | 33 |
| 84 | Influence of interparticle forces on solids motion in a bubbling gas-solid fluidized bed. Powder Technology, 2016, 299, 98-106. | 2.1 | 33 |
| 85 | Fluidization of cryogels in a conical column. Powder Technology, 1996, 89, 179-186. | 2.1 | 32 |
| 86 | A multiscale model for the simulation of granulation in rotor-based equipment. Chemical Engineering Science, 2012, 81, 106-117. | 1.9 | 31 |
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| 88 | Development of a multiscale model for the design and scale-up of gas/liquid stirred tank reactors. Chemical Engineering Journal, 2016, 297, 277-294. | 6.6 | 31 |
| 89 | Effets de differents parametres sur les vitesses de transition de la fluidisation en regime turbulent. Canadian Journal of Chemical Engineering, 1995, 73, 41-50. | 0.9 | 30 |
| 90 | Effects of temperature on local two-phase flow structure in bubbling and turbulent fluidized beds of FCC particles. Chemical Engineering Science, 2004, 59, 3413-3422. | 1.9 | 30 |

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| 92 | Behavior of Sulfur during the Pyrolysis of Tires. Energy & Energy & 2015, 29, 763-774. | 2.5 | 30 |
| 93 | A multiple radioactive particle tracking technique to investigate particulate flows. AICHE Journal, 2015, 61, 384-394. | 1.8 | 30 |
| 94 | Combustion of Methane in a Cyclic Catalytic Reactor. Industrial & Engineering Chemistry Research, 1994, 33, 2957-2963. | 1.8 | 29 |
| 95 | Solids mixing in gas-liquid-solid fluidized beds: Experiments and modelling. Chemical Engineering Science, 1996, 51, 2011-2020. | 1.9 | 29 |
| 96 | Effective drag coefficient investigation in the acceleration zone of an upward gas–solid flow. Chemical Engineering Science, 2007, 62, 318-327. | 1.9 | 29 |
| 97 | Investigation of turbulent fluid flows in stirred tanks using a non-intrusive particle tracking technique. Chemical Engineering Science, 2016, 140, 233-251. | 1.9 | 29 |
| 98 | Improvement of the fluidisability of Ni/SiO2 aerogels by reducing interparticle forces. Powder Technology, 1991, 65, 461-468. | 2.1 | 28 |
| 99 | A measure of mixing from Lagrangian tracking and its application to granular and fluid flow systems. Chemical Engineering Research and Design, 2008, 86, 1313-1321. | 2.7 | 28 |
| 100 | TGA and kinetic modelling of Co, Mn and Cu oxides for chemical looping gasification (CLG). Canadian Journal of Chemical Engineering, 2014, 92, 1903-1910. | 0.9 | 28 |
| 101 | Effect of solid particles on the volumetric gas liquid mass transfer coefficient in slurry bubble column reactors. Chemical Engineering Science, 2020, 227, 115912. | 1.9 | 28 |
| 102 | CATALYTIC COMBUSTION OF NATURAL GAS IN A FIXED BED REACTOR WITH FLOW REVERSAL. Chemical Engineering Communications, 1993, 125, 171-186. | 1.5 | 27 |
| 103 | Characterization of Minimum Impeller Speed for Suspension of Solids in Liquid at High Solid Concentration, Using Gamma-Ray Densitometry. International Journal of Chemical Engineering, 2012, 2012, 1-15. | 1.4 | 27 |
| 104 | Solids dynamics from experimental trajectory time-series of a single particle motion in gas-spouted beds. Chemical Engineering Science, 1999, 54, 2545-2554. | 1.9 | 26 |
| 105 | Modeling of the mixing of monodisperse particles using a stationary DEM-based Markov process. Computers and Chemical Engineering, 2008, 32, 1334-1341. | 2.0 | 26 |
| 106 | Conical spouted bed drying of Baker's yeast: Experimentation and multi-modeling. Food Research International, 2014, 62, 137-150. | 2.9 | 26 |
| 107 | Hydrodynamic behaviour of aerogel powders in high-velocity fluidized beds. Powder Technology, 1990, 60, 121-129. | 2.1 | 25 |
| 108 | Radial Hydrodynamics in Risers. Industrial & Engineering Chemistry Research, 1999, 38, 81-89. | 1.8 | 25 |

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| 109 | High temperature fluidized bed reactor: measurements, hydrodynamics and simulation. Chemical Engineering Science, 2003, 58, 1071-1077. | 1.9 | 25 |
| 110 | Preparation and characterization of alumina and chromia cryogel-based catalysts. Applied Catalysis A: General, 2000, 196, 191-198. | 2.2 | 24 |
| 111 | Development of a granular normal contact force model based on a non-Newtonian liquid filled dashpot. Powder Technology, 2013, 237, 202-212. | 2.1 | 24 |
| 112 | Co-combustion of coal and waste in pulverized coal boiler. Energy, 2016, 94, 742-754. | 4.5 | 24 |
| 113 | Simultaneous effect of particle size and solid concentration on the hydrodynamics of slurry bubble column reactors. AICHE Journal, 2020, 66, e16813. | 1.8 | 24 |
| 114 | Dehydrogenation of methylcyclohexane in a reactor coupled to a hydrogen engine. International Journal of Hydrogen Energy, 1991, 16, 55-60. | 3.8 | 23 |
| 115 | Technoâ€Economic Comparison of a 7â€MW _{th} Biomass Chemical Looping Gasification Unit with Conventional Systems. Chemical Engineering and Technology, 2015, 38, 867-878. | 0.9 | 23 |
| 116 | Preparation of supported La _{0.66} Sr _{0.34} Ni _{0.3} Co _{0.7} O ₃ perovskite catalysts and their performance in methane and odorized natural gas combustion. Canadian Journal of Chemical Engineering, 1997, 75, 509-519. | 0.9 | 22 |
| 117 | Behaviors of the bubble, cloud, and emulsion phases in a fluidized bed. AICHE Journal, 2008, 54, 406-414. | 1.8 | 22 |
| 118 | Optimization of detector positioning in the radioactive particle tracking technique. Applied Radiation and Isotopes, 2014, 89, 109-124. | 0.7 | 22 |
| 119 | Effect of elevated pressure on the hydrodynamic aspects of a pilot-scale bubble column reactor operating with non-Newtonian liquids. Chemical Engineering Journal, 2016, 288, 377-389. | 6.6 | 21 |
| 120 | Size segregation of bidisperse granular mixtures in rotating drum. Powder Technology, 2020, 374, 172-184. | 2.1 | 21 |
| 121 | Metal and sulfur removal from petroleum oil using a novel demetallization-desulfurization agent and process. Journal of Cleaner Production, 2020, 275, 124177. | 4.6 | 21 |
| 122 | Diffusional effects for the oxidation of SiC powders in thermogravimetric analysis experiments. Journal of Materials Science, 2013, 48, 4396-4407. | 1.7 | 20 |
| 123 | Compartmental modelling of turbulent fluid flow for the scaleâ€up of stirred tanks. Canadian Journal of Chemical Engineering, 2014, 92, 1070-1081. | 0.9 | 20 |
| 124 | Lethe: An open-source parallel high-order adaptative CFD solver for incompressible flows. SoftwareX, 2020, 12, 100579. | 1.2 | 20 |
| 125 | <scp>CFDâ€DEM</scp> analysis of the spouted fluidized bed with nonâ€spherical particles. Canadian Journal of Chemical Engineering, 2021, 99, 2303-2319. | 0.9 | 20 |
| 126 | Flow Structure of the Solids in a Three-Dimensional Liquid Fluidized Bed. Industrial & Engineering Chemistry Research, 1997, 36, 4695-4704. | 1.8 | 19 |

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| 127 | Hydrodynamic characteristics of gas–solid fluidization at high temperature. Canadian Journal of Chemical Engineering, 2010, 88, 1-11. | 0.9 | 19 |
| 128 | Experimental investigation of solid particles flow in a conical spouted bed using radioactive particle tracking. AICHE Journal, 2016, 62, 26-37. | 1.8 | 19 |
| 129 | Trajectory length and residence-time distributions of the solids in three-phase fluidized beds. Chemical Engineering Science, 1997, 52, 3931-3939. | 1.9 | 18 |
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| 131 | Comparison of particle velocity measurement techniques in a fluidized bed operating in the square-nosed slugging flow regime. Powder Technology, 2016, 296, 45-52. | 2.1 | 18 |
| 132 | De-agglomeration of nanoparticles in a jet impactor-assisted fluidized bed. Powder Technology, 2017, 316, 455-461. | 2.1 | 18 |
| 133 | A simple and robust approach for early detection of defluidization. Chemical Engineering Journal, 2017, 313, 144-156. | 6.6 | 18 |
| 134 | The development of industrial (thermal) processes in the context of sustainability: The case for microwave heating. Canadian Journal of Chemical Engineering, 2020, 98, 832-847. | 0.9 | 18 |
| 135 | Flow regime transition pointers in three-phase fluidized beds inferred from a solid tracer trajectory. Chemical Engineering and Processing: Process Intensification, 2006, 45, 350-358. | 1.8 | 17 |
| 136 | An evaluation of the solid holdâ€up distribution in a fluidized bed of nanoparticles using radioactive densitometry and fibre optics. Canadian Journal of Chemical Engineering, 2008, 86, 543-552. | 0.9 | 17 |
| 137 | Control of particle cohesion with a polymer coating and temperature adjustment. AICHE Journal, 2012, 58, 3685-3696. | 1.8 | 17 |
| 138 | Discrete element investigation of flow patterns and segregation in a spheronizer. Computers and Chemical Engineering, 2013, 49, 170-182. | 2.0 | 17 |
| 139 | Local hydrodynamic parameters of bubble column reactors operating with nonâ€Newtonian liquids: Experiments and models development. AICHE Journal, 2016, 62, 1382-1396. | 1.8 | 17 |
| 140 | Influence of the deactivation of an industrial Pt-Sn/Al2O3 catalyst on the performance of the dehydrogenation reactor. Chemical Engineering Science, 1994, 49, 4639-4646. | 1.9 | 16 |
| 141 | Experimental characterization of the chaotic dynamics of cohesionless particles: application to a V-blender. Granular Matter, 2008, 10, 133-138. | 1.1 | 16 |
| 142 | Trickle-Bed Laboratory Reactors for Kinetic Studies. International Journal of Chemical Reactor Engineering, 2009, 7, . | 0.6 | 16 |
| 143 | Thermal behavior of an engineered fuel and its constituents for a large range of heating rates with emphasis on heat transfer limitations. Thermochimica Acta, 2015, 601, 54-62. | 1.2 | 16 |
| 144 | Kinetics of calcination of natural carbonate minerals. Minerals Engineering, 2020, 150, 106279. | 1.8 | 16 |

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| 145 | Circulating fluidized bed reactor design and operation. Sadhana - Academy Proceedings in Engineering Sciences, 1987, 10, 35-48. | 0.8 | 15 |
| 146 | Natural gas combustion in a turbulent fluidized bed of inert particles. Chemical Engineering Science, 1999, 54, 2029-2037. | 1.9 | 15 |
| 147 | Catalytic ash free coal gasification in a fluidized bed thermogravimetric analyzer. Powder Technology, 2017, 316, 551-559. | 2.1 | 15 |
| 148 | Development and confirmation of a simple procedure to measure solids distribution in fluidized beds using tracer particles. Chemical Engineering Science, 2020, 217, 115501. | 1.9 | 15 |
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| 151 | Mean and Turbulent Particle Velocity in the Fully Developed Region of a Three-Phase Fluidized Bed. Chemical Engineering and Technology, 1999, 22, 683-689. | 0.9 | 14 |
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| 153 | Interparticle forces in high temperature fluidization of geldart a particles. Particuology: Science and Technology of Particles, 2004, 2, 113-118. | 0.4 | 14 |
| 154 | MeOH to DME in bubbling fluidized bed: Experimental and modelling. Canadian Journal of Chemical Engineering, 2011, 89, 274-283. | 0.9 | 14 |
| 155 | From complex feedstocks to new processes: The role of the newly developed micro-reactors. Chemical Engineering and Processing: Process Intensification, 2018, 131, 92-105. | 1.8 | 14 |
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| 158 | Analysis and modeling of particle–wall contact time in gas fluidized beds. Chemical Engineering Science, 2007, 62, 4573-4578. | 1.9 | 13 |
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| 163 | Numerical and experimental comparison of tracer particle and averaging techniques for particle velocities in a fluidized bed. Chemical Engineering Science, 2019, 195, 356-366. | 1.9 | 13 |
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| 167 | Experimental investigation of solid mixing and segregation in a tetrapodal blender. Chemical Engineering Science, 2013, 97, 354-365. | 1.9 | 12 |
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| 171 | Mass transfer in the homogeneous flow regime of a bubble column. Chemical Engineering and Processing: Process Intensification, 2019, 144, 107647. | 1.8 | 12 |
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