Zheng-Hong Luo

List of Publications by Year
in descending order

206 papers	5,689 citations	71102 41 h-index	123424 61 g-index
213 all docs	213 docs citations	213 times ranked	4158 citing authors

#	Article	IF	Citations
1	Study of fluid cell coarsening for CFD-DEM simulations of polydisperse gasâ€“solid flows. Particuology, 2023, 73, 128-138.	3.6	5
2	Effect of geometric configuration on hydrodynamics, heat transfer and RTD in a pilot-scale biomass pyrolysis vapor-phase upgrading reactor. Chemical Engineering Journal, 2022, 428, 131048.	12.7	3
3	Computer-aided estimation of kinetic rate constant for degradation of volatile organic compounds by hydroxyl radical: An improved model using quantum chemical and norm descriptors. Chemical Engineering Science, 2022, 248, 117244.	3.8	13
4	A hybrid mesoscale closure combining CFD and deep learning for coarse-grid prediction of gas-particle flow dynamics. Chemical Engineering Science, 2022, 248, 117268.	3.8	20
5	A quasi-three-phase approach for simulating gas-solid fluidized bed under different flow patterns. Powder Technology, 2022, 398, 117041.	4.2	3
6	Costâ€efficient modeling of distributed molar mass and topological variations in graft copolymer synthesis by upgrading the method of moments. AICHE Journal, 2022, 68, .	3.6	23
7	Construction of Tensile Strength and Density Prediction Models for Semi-Interpenetrating Polymer Network from Fluoroelastomer and Poly(dimethylsiloxane). Industrial & Engineering Chemistry Research, 2022, 61, 1606-1614.	3.7	4
8	Supervised Machine Learning Algorithms for Predicting Rate Constants of Ozone Reaction with Micropollutants. Industrial & Engineering Chemistry Research, 2022, 61, 8359-8367.	3.7	12
9	Using mesoscale drag model-augmented coarse-grid simulation to design fluidized bed reactor: Effect of bed internals and sizes. Chemical Engineering Science, 2022, 253, 117547.	3.8	8
10	Preface: Special issue of â€œMultiphase Flows in Process Engineering: Recent Experimental, Theoretical and Numerical Developmentsâ€• International Journal of Chemical Reactor Engineering, 2022, 20, 385-385.	1.1	0
11	Steady-State and Dynamic Modeling of the Solution Polyethylene Process Based on Rigorous PC-SAFT Equation of State. Industrial & Engineering Chemistry Research, 2022, 61, 6753-6762.	3.7	5
12	Precision polymer synthesis by controlled radical polymerization: Fusing the progress from polymer chemistry and reaction engineering. Progress in Polymer Science, 2022, 130, 101555.	24.7	71
13	Sensitivity analysis of isothermal free radical induced grafting through application of the distribution - Numerical fractionation - Method of moments. Chemical Engineering Journal, 2022, 444, 136595.	12.7	11
14	A CFD-PBM Coupled Method to Optimize a Pilot-Scale Stirred Bioreactor. Industrial & Engineering Chemistry Research, 2022, 61, 8302-8312.	3.7	6
15	Machine Learning and Data Science in Chemical Engineering. Industrial & Engineering Chemistry Research, 2022, 61, 8357-8358.	3.7	9
16	Review of Machine Learning for Hydrodynamics, Transport, and Reactions in Multiphase Flows and Reactors. Industrial & Engineering Chemistry Research, 2022, 61, 9901-9949.	3.7	63
17	Machine learning for full spatiotemporal acceleration of gas-particle flow simulations. Powder Technology, 2022, 408, 117701.	4.2	12
18	Deterministic modeling of non-adiabatic solution radical polymerization of n-butyl acrylate in light of runaway prevention. Chemical Engineering Journal, 2022, 450, 138110.	12.7	7

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19	Kinetic study for the oxidation of cyclohexanol and cyclohexanone with nitric acid to adipic acid. Chinese Journal of Chemical Engineering, 2021, 29, 183-189.	3.5	10
20	Kinetic features of <scp>ironâ€based</scp> electrochemically mediated <scp>ATRP</scp> revealed by Monte Carlo simulation. AICHE Journal, 2021, 67, e17098.	3.6	11
21	Analysis and development of homogeneous drag closure for filtered mesoscale modeling of fluidized gas-particle flows. Chemical Engineering Science, 2021, 229, 116147.	3.8	22
22	Porous PS- and PMMA-based polymeric monoliths prepared by PEO-PS block copolymers stabilized High internal phase emulsion templates. Materials Today Communications, 2021, 26, 101962.	1.9	4
23	Numerical modeling of a microreactor for the synthesis of adipic acid via KA oil oxidation. Chemical Engineering Science, 2021, 230, 116208.	3.8	8
24	Coarse-grid simulations of full-loop gas-solid flows using a hybrid drag model: Investigations on turbulence models. Powder Technology, 2021, 379, 108-126.	4.2	20
25	Dataâ€driven modeling of mesoscale solids stress closures for filtered twoâ€fluid model in gasâ€"particle flows. AICHE Journal, 2021, 67, e17290.	3.6	21
26	Conventional and<scp>dataâ€driven</scp>modeling of filtered drag, heat transfer, and reaction rate in<scp>gasâ€"particle</scp>flows. AICHE Journal, 2021, 67, e17299.	3.6	40
27	Two-Stage Temperature Control for the Synthesis of Adipic Acid through K/A Oil Oxidation in a Microreactor System. Industrial & Engineering Chemistry Research, 2021, 60, 9389-9398.	3.7	3
28	Hydrodynamics study of a fast <scp>liquidâ€"liquid</scp> oxidation process with in situ gas production in microreactors. AICHE Journal, 2021, 67, e17362.	3.6	8
29	Network Formation Kinetics of Poly(dimethylsiloxane) Based on Step-Growth Polymerization. Macromolecules, 2021, 54, 7678-7689.	4.8	23
30	Physics-informed deep learning for modelling particle aggregation and breakage processes. Chemical Engineering Journal, 2021, 426, 131220.	12.7	14
31	CFD-DEM modeling of filtered fluid-particle drag and heat transfer in bidisperse gas-solid flows. Chemical Engineering Science, 2021, 246, 116896.	3.8	20
32	Bridging principal component analysis and method of moments based parameter estimation for grafting of polybutadiene with styrene. Chemical Engineering Journal, 2021, 425, 130463.	12.7	19
33	Coupled matrix kinetic Monte Carlo simulations applied for advanced understanding of polymer grafting kinetics. Reaction Chemistry and Engineering, 2021, 6, 640-661.	3.7	35
34	In silico mechanically mediated atom transfer radical polymerization: A detailed kinetic study. AICHE Journal, 2021, 67, e17151.	3.6	14
35	Study of filtered interphase heat transfer using <scp>highly resolved CFDâ€"DEM</scp> simulations. AICHE Journal, 2021, 67, e17121.	3.6	20
36	Effect of granular properties on hydrodynamics in coarse-grid riser flow simulation of Geldart A and B particles. Powder Technology, 2020, 359, 126-144.	4.2	11

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37	Mechanistic and kinetic investigation of Cu(II)â€catalyzed controlled radical polymerization enabled by ultrasound irradiation. AICHE Journal, 2020, 66, e16746.	3.6	16
38	Capability assessment of coarse-grid simulation of gas-particle riser flow using sub-grid drag closures. Chemical Engineering Science, 2020, 213, 115410.	3.8	23
39	CFD-PBM Simulation of Bubble Columns: Sensitivity Analysis of the Nondrag Forces. Industrial & Engineering Chemistry Research, 2020, 59, 18674-18682.	3.7	12
40	â€œLivingâ€•Polymer Dispersity Quantification for Nitroxide-Mediated Polymerization Systems by Mimicking a Monodispersed Polymer Blending Strategy. Macromolecules, 2020, 53, 10813-10822.	4.8	13
41	CFD-PBM simulation of bubble columns: Effect of parameters in the class method for solving PBEs. Chemical Engineering Science, 2020, 226, 115853.	3.8	20
42	Synthesis of adipic acid through oxidation of K/A oil and its kinetic study in a microreactor system. AICHE Journal, 2020, 66, e16289.	3.6	24
43	Effects of bubble coalescence and breakup models on the simulation of bubble columns. Chemical Engineering Science, 2020, 226, 115850.	3.8	27
44	Machine learning to assist filtered twoâ€fluid model development for dense gasâ€"particle flows. AICHE Journal, 2020, 66, e16973.	3.6	88
45	Kinetic Study on Ultraviolet Light-Induced Solution Atom Transfer Radical Polymerization of Methyl Acrylate Using TiO₂. Industrial & Engineering Chemistry Research, 2020, 59, 13870-13878.	3.7	5
46	Comparative analysis of numerically derived drag models for development of bed expansion ratio correlation in a bubbling fluidized bed. Advanced Powder Technology, 2020, 31, 2723-2732.	4.1	10
47	Role of External Field in Polymerization: Mechanism and Kinetics. Chemical Reviews, 2020, 120, 2950-3048.	47.7	141
48	Doubleâ€externalâ€field enables bulk controlled radical polymerization with narrow molecular weight distribution at high conversion. AICHE Journal, 2020, 66, e16245.	3.6	10
49	A polyelectrolyte-containing copolymer with a gas-switchable lower critical solution temperature-type phase transition. Polymer Chemistry, 2019, 10, 260-266.	3.9	7
50	Experimental and computational investigation of oxidative quenching governed aqueous organocatalyzed atom transfer radical polymerization. Chemical Engineering Journal, 2019, 362, 721-730.	12.7	24
51	An enhanced correlation for gas-particle heat and mass transfer in packed and fluidized bed reactors. Chemical Engineering Journal, 2019, 374, 531-544.	12.7	40
52	Electrochemically mediated ATRP process intensified by ionic liquid: A â€œflashâ€•polymerization of methyl acrylate. Chemical Engineering Journal, 2019, 372, 163-170.	12.7	20
53	A material-property-dependent sub-grid drag model for coarse-grained simulation of 3D large-scale CFB risers. Chemical Engineering Science, 2019, 204, 228-245.	3.8	58
54	Effect of spatial radiation distribution on photocatalytic oxidation of methylene blue in gas-liquid-solid mini-fluidized beds. Chemical Engineering Journal, 2019, 370, 1154-1168.	12.7	10

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55	CFD Simulation of the Particle Dispersion Behavior and Mass Transferâ€"Reaction Kinetics in non-Newton Fluid with High Viscosity. International Journal of Chemical Reactor Engineering, 2019, 17, .	1.1	5
56	Comprehensive validation analysis of sub-grid drag and wall corrections for coarse-grid two-fluid modeling. Chemical Engineering Science, 2019, 196, 478-492.	3.8	20
57	Computational fluid dynamics simulation of gasâ€"liquidâ€"solid polyethylene fluidized bed reactors incorporating with a dynamic polymerization kinetic model. Asia-Pacific Journal of Chemical Engineering, 2019, 14, e2265.	1.5	10
58	How the catalyst circulates and works in organocatalyzed atom transfer radical polymerization. AICHE Journal, 2018, 64, 2581-2591.	3.6	12
59	Numerical simulations of hydrodynamics and concentration distribution in a stirred tank during startup stage for producing phenylboronic acid ester. Asia-Pacific Journal of Chemical Engineering, 2018, 13, e2172.	1.5	1
60	Modeling and simulation of particle size distribution behavior in gasâ€"liquidâ€"solid polyethylene fluidized bed reactors. Powder Technology, 2018, 328, 95-107.	4.2	18
61	Influence of mixing performance on polymerization of acrylamide in capillary microreactors. AICHE Journal, 2018, 64, 1828-1840.	3.6	38
62	A multiscale CFD-PBM coupled model for the kinetics and liquidâ€"liquid dispersion behavior in a suspension polymerization stirred tank. Chemical Engineering Research and Design, 2018, 130, 1-17.	5.6	24
63	Model-based downdraft biomass gasifier operation and design for synthetic gas production. Journal of Cleaner Production, 2018, 178, 476-493.	9.3	59
64	Study on the pinene isomerization catalyzed by TiM. Chinese Journal of Chemical Engineering, 2018, 26, 2537-2541.	3.5	8
65	Aqueous Metal-Free Atom Transfer Radical Polymerization: Experiments and Model-Based Approach for Mechanistic Understanding. Macromolecules, 2018, 51, 2367-2376.	4.8	61
66	A PBM-CFD Model with Optimized PBM-Customized Drag Equations for Chemisorption of CO2 in a Bubble Column. International Journal of Chemical Reactor Engineering, 2018, 16, .	1.1	3
67	Assessment of Microwave Effect on Polymerization Conducted under ARGET ATRP Conditions. Macromolecular Reaction Engineering, 2018, 12, 1700032.	1.5	9
68	Ironâ€based electrochemically mediated atom transfer radical polymerization with tunable catalytic activity. AICHE Journal, 2018, 64, 961-969.	3.6	22
69	Modeling and simulation of the influences of particle-particle interactions on dense solidâ€"liquid suspensions in stirred vessels. Chemical Engineering Science, 2018, 176, 439-453.	3.8	44
70	Mechanically Mediated Atom Transfer Radical Polymerization: Exploring Its Potential at High Conversions. Macromolecules, 2018, 51, 6911-6921.	4.8	37
71	Influence of distributed pore size and porosity on MTO catalyst particle performance: Modeling and simulation. Chemical Engineering Research and Design, 2018, 137, 141-153.	5.6	18
72	Polymeric materials with switchable superwettability for controllable oil/water separation: A comprehensive review. Progress in Polymer Science, 2018, 87, 1-33.	24.7	210

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73	An effective three-marker drag model via sub-grid modeling for turbulent fluidization. Chemical Engineering Science, 2018, 192, 759-773.	3.8	42
74	CFD-VOF-DPM simulations of bubble rising and coalescence in low hold-up particle-liquid suspension systems. Powder Technology, 2018, 339, 459-469.	4.2	47
75	Effect of Particle Polydispersity on Flow and Reaction Behaviors of Methanol-to-Olefins Fluidized Bed Reactors. Industrial & Engineering Chemistry Research, 2017, 56, 1090-1102.	3.7	12
76	Mussel-inspired V-shaped copolymer coating for intelligent oil/water separation. Chemical Engineering Journal, 2017, 322, 693-701.	12.7	72
77	A new cycloartane triterpenoid glycoside from Souliea vaginata. Natural Product Research, 2017, 31, 2484-2490.	1.8	9
78	Multiscale Computational Fluid Dynamicsâ€"Population Balance Model Coupled System of Atom Transfer Radical Suspension Polymerization in Stirred Tank Reactors. Industrial & Engineering Chemistry Research, 2017, 56, 4690-4702.	3.7	30
79	Visible-Light-Induced Atom-Transfer-Radical Polymerization with a ppm-Level Iron Catalyst. Industrial & Engineering Chemistry Research, 2017, 56, 4949-4956.	3.7	19
80	Soulieoside O, a new cyclolanostane triterpenoid glycoside from Souliea vaginata. Journal of Asian Natural Products Research, 2017, 19, 1177-1182.	1.4	8
81	CO₂/N₂-Switchable Thermoresponsive Ionic Liquid Copolymer. Macromolecules, 2017, 50, 8378-8389.	4.8	11
82	Important Analysis of Liquid Vaporization Modeling Scheme in Computational Fluid Dynamics Modeling of Gasâ€"Liquidâ€"Solid Polyethylene Fluidized Bed Reactors. Industrial & Engineering Chemistry Research, 2017, 56, 10199-10213.	3.7	18
83	Assessment of kinetics of photoinduced Feâ€based atom transfer radical polymerization under conditions using modeling approach. AICHE Journal, 2017, 63, 4987-4997.	3.6	18
84	Photoinduced Fe-mediated atom transfer radical polymerization in aqueous media. Polymer Chemistry, 2017, 8, 7360-7368.	3.9	19
85	Multiscale Modeling of Mixing Behavior in a 3D Atom Transfer Radical Copolymerization Stirred-Tank Reactor. Macromolecular Reaction Engineering, 2017, 11, 1600022.	1.5	9
86	Soulieoside R : A New Cycloartane Triterpenoid Glycoside from Souliea vaginata. Records of Natural Products, 2017, 12, 95-100.	1.3	5
87	Modeling of the Methyl Methacrylate Atom Transfer Radical Suspension Polymerization Process: Polymerization and Particle Kinetics. Macromolecular Reaction Engineering, 2016, 10, 479-489.	1.5	9
88	Electrospun Fibrous Mat with pH-Switchable Superwettability That Can Separate Layered Oil/Water Mixtures. Langmuir, 2016, 32, 13358-13366.	3.5	79
89	CFD modeling of the gasâ€"solid two-fluid flow in polyethylene FBRs: From traditional operation to super-condensed mode. Advanced Powder Technology, 2016, 27, 1494-1505.	4.1	11
90	CFD simulations of gasâ€"liquidâ€"solid flow in fluidized bed reactors â€" A review. Powder Technology, 2016, 299, 235-258.	4.2	95

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91	Structure elucidation of a new cycloartane triterpene glycoside from Souliea vaginata by NMR. Magnetic Resonance in Chemistry, 2016, 54, 991-994.	1.9	5
92	Stateâ€ofâ€theâ€Art and Progress in Method of Moments for the Modelâ€Based Reversibleâ€Deactivation Radical Polymerization. Macromolecular Reaction Engineering, 2016, 10, 516-534.	1.5	88
93	Photoinduced Iron(III)-Mediated Atom Transfer Radical Polymerization with In Situ Generated Initiator: Mechanism and Kinetics Studies. Industrial & Engineering Chemistry Research, 2016, 55, 10235-10242.	3.7	26
94	Dualâ€responsive copolymer poly(2,2,3,4,4,4â€hexafluorobutyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 Td (methacrylate)â€blockâ€p for surface with tunable wettability. Journal of Polymer Science Part A, 2016, 54, 3868-3877.	2.3	11
95	Application of Filtered Model for Reacting Gasâ€"Solid Flows and Optimization in a Large-Scale Methanol-to-Olefin Fluidized-Bed Reactor. Industrial & Engineering Chemistry Research, 2016, 55, 11887-11899.	3.7	39
96	Computational Fluid Dynamics Simulation of Multiscale Mixing in Anionic Polymerization Tubular Reactors. Chemical Engineering and Technology, 2016, 39, 857-864.	1.5	19
97	CFD-PBM approach with modified drag model for the gasâ€"liquid flow in a bubble column. Chemical Engineering Research and Design, 2016, 112, 88-102.	5.6	66
98	Kinetic Insights into the Iron-Based Electrochemically Mediated Atom Transfer Radical Polymerization of Methyl Methacrylate. Macromolecules, 2016, 49, 4038-4046.	4.8	43
99	Filtered model for the cold-model gasâ€"solid flow in a large-scale MTO fluidized bed reactor. Chemical Engineering Science, 2016, 143, 369-383.	3.8	57
100	Electrospun fibrous membrane with enhanced swithchable oil/water wettability for oily water separation. Chemical Engineering Journal, 2016, 287, 474-481.	12.7	204
101	Modeling the electrostatic effect on the hydrodynamic behavior in FCC risers: From understanding to application. Particuology, 2016, 25, 122-132.	3.6	7
102	An old kinetic method for a new polymerization mechanism: Toward photochemically mediated ATRP. AICHE Journal, 2015, 61, 1947-1958.	3.6	47
103	Kinetic insight into electrochemically mediated ATRP gained through modeling. AICHE Journal, 2015, 61, 4347-4357.	3.6	41
104	Kinetic modeling of atom transfer radical copolymerization of methyl methacrylate and 2â€(trimethylsilyl) ethyl methacrylate in a train of continuous stirredâ€tank reactors. Polymer Engineering and Science, 2015, 55, 1030-1038.	3.1	7
105	Numerical evaluation and improvement efficiency of radial flow movingâ€bed reactors for catalytic pyrolysis of light hydrocarbons to low carbon olefins. Canadian Journal of Chemical Engineering, 2015, 93, 1033-1043.	1.7	4
106	Modeling of the ATRcoP Processes of Methyl Methacrylate and 2â€(Trimethylsilyl) Ethyl Methacrylate in Continuous Reactors: From CSTR to PFR. Macromolecular Reaction Engineering, 2015, 9, 418-430.	1.5	15
107	A Tandem Controlled Radical Polymerization Technique for the Synthesis of Poly(4â€vinylpyridine) Block Copolymers: Successive ATRP, SETâ€NRC, and NMP. Macromolecular Chemistry and Physics, 2015, 216, 329-333.	2.2	7
108	Numerical modeling of the cavity phenomenon and its elimination way in rectangular radial moving bed reactor. Powder Technology, 2015, 274, 28-36.	4.2	9

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109	1,2,4-Triazolium perfluorobutanesulfonate as an archetypal pure protic organic ionic plastic crystal electrolyte for all-solid-state fuel cells. Energy and Environmental Science, 2015, 8, 1276-1291.	30.8	134
110	Poly(ionic liquid)-Based Nanocomposites and Their Performance in CO2 Capture. Industrial & Engineering Chemistry Research, 2015, 54, 3107-3115.	3.7	45
111	PhotoATRP-Based Fluorinated Thermosensitive Block Copolymer for Controllable Water/Oil Separation. Industrial & Engineering Chemistry Research, 2015, 54, 10714-10722.	3.7	48
112	Numerical evaluation on the intraparticle transfer in butylene oxidative dehydrogenation fixed-bed reactor over ferrite catalysts. Journal of Industrial and Engineering Chemistry, 2015, 29, 172-184.	5.8	9
113	Smart Fiber Membrane for pH-Induced Oil/Water Separation. ACS Applied Materials & Interfaces, 2015, 7, 19643-19650.	8.0	213
114	CFD-PBM modeling polydisperse polymerization FBRs with simultaneous particle growth and aggregation: The effect of the method of moments. Powder Technology, 2015, 272, 142-152.	4.2	33
115	Modeling intraparticle transports during propylene polymerizations using supported metallocene and dual function metallocene as catalysts: Single particle model. Chemical Industry and Chemical Engineering Quarterly, 2014, 20, 249-260.	0.7	3
116	Thermal-Responsive Block Copolymers for Surface with Reversible Switchable Wettability. Industrial & Engineering Chemistry Research, 2014, 53, 18112-18120.	3.7	25
117	Insight into the ATRP rate controlling ability of initiator structure: Micromolecular, macromolecular, and immobilized initiators. Journal of Polymer Science Part A, 2014, 52, 2228-2238.	2.3	12
118	A CFD simulation study to evaluate the flow and catalytic hydrogenation of dimethyl oxalate in a packed bed, a twoâ€stage fluidized bed, and a circulating fluidized bed. Asia-Pacific Journal of Chemical Engineering, 2014, 9, 280-292.	1.5	8
119	Thermo-responsive brush copolymers with structure-tunable LCST and switchable surface wettability. Polymer, 2014, 55, 6552-6560.	3.8	40
120	Particle Behavior in FBRs: A Comparison of the PBM-CFD, Multi-Scale CFD Simulation of Gas-Solid Catalytic Propylene Polymerization. Macromolecular Reaction Engineering, 2014, 8, 609-621.	1.5	15
121	Modeling the Industrial Propyleneâ€"Ethylene Copolymerization FBR at Emergency Accidents. International Journal of Chemical Reactor Engineering, 2014, 12, 317-332.	1.1	0
122	CFDâ€"DEM modeling of gasâ€"solid flow and catalytic MTO reaction in a fluidized bed reactor. Computers and Chemical Engineering, 2014, 60, 1-16.	3.8	86
123	An improved kinetic model for cellulose hydrolysis to 5-hydroxymethylfurfural using the solid SO42â˜'/Ti-MCM-41 catalyst. RSC Advances, 2014, 4, 15216.	3.6	26
124	Hydrodynamics of gasâ€"solid turbulent fluidized bed of polydisperse binary particles. Powder Technology, 2014, 262, 106-123.	4.2	10
125	A CFD modeling of the gasâ€"solid twoâ€phase flow in an FCC riser under the electrostatic conditions. Asia-Pacific Journal of Chemical Engineering, 2014, 9, 645-655.	1.5	15
126	Poly(ionic liquid)s-based nanocomposite polyelectrolytes with tunable ionic conductivity prepared via SI-ATRP. Polymer Chemistry, 2014, 5, 882-891.	3.9	53

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127	Iterative Multiscale Computational Fluid Dynamicsâ€"Single-Particle Model for Intraparticle Transfer and Catalytic Hydrogenation Reaction of Dimethyl Oxalate in a Fluidized-Bed Reactor. Industrial & Engineering Chemistry Research, 2014, 53, 110-122.	3.7	17
128	A Two-Phase CFD Modeling Approach to Investigate the Flow Characteristics in Radial Flow Moving-Bed Reactors. International Journal of Chemical Reactor Engineering, 2014, 12, 497-512.	1.1	4
129	Synthesis and characterization of polyfluorene-based photoelectric materials: the effect of coil segment on the spectral stability. RSC Advances, 2014, 4, 19869-19877.	3.6	5
130	Copper(0)-Mediated Reversible-Deactivation Radical Polymerization: Kinetics Insight and Experimental Study. Macromolecules, 2014, 47, 6218-6229.	4.8	47
131	Case Study to Bridge the Gap between Chemistry and Chemical Product Engineering: From Molecules to Products Based on Brush Copolymers Having Different Backbone Composition Profiles. Industrial & Engineering Chemistry Research, 2014, 53, 1900-1908.	3.7	11
132	Multi-scale product property model of polypropylene produced in a FBR: From chemical process engineering to product engineering. Computers and Chemical Engineering, 2014, 71, 39-51.	3.8	13
133	Light-Responsive Smart Surface with Controllable Wettability and Excellent Stability. Langmuir, 2014, 30, 12236-12242.	3.5	51
134	Modeling of the Atom Transfer Radical Copolymerization Processes of Methyl Methacrylate and 2-(Trimethylsilyl) Ethyl Methacrylate under Batch, Semibatch, and Continuous Feeding: A Chemical Reactor Engineering Viewpoint. Industrial & Engineering Chemistry Research, 2014, 53, 11873-11883.	3.7	23
135	3D CFD-PBM modeling of the gasâ€"solid flow field in a polydisperse polymerization FBR: The effect of drag model. Advanced Powder Technology, 2014, 25, 1474-1482.	4.1	32
136	New insights into intraparticle transfer, particle kinetics, and gasâ€"solid two-phase flow in polydisperse fluid catalytic cracking riser reactors under reaction conditions using multi-scale modeling. Chemical Engineering Science, 2014, 109, 38-52.	3.8	22
137	A Light and pH Dual-Stimuli-Responsive Block Copolymer Synthesized by Copper(0)-Mediated Living Radical Polymerization: Solvatochromic, Isomerization, and â€œSchizophrenicâ€•Behaviors. Langmuir, 2014, 30, 1489-1499.	3.5	52
138	Axial velocity gradient effects in tubular loop polymerization reactors. Asia-Pacific Journal of Chemical Engineering, 2013, 8, 405-413.	1.5	3
139	CFD modeling using heterogeneous reaction kinetics for catalytic dehydrogenation syngas reactions in a fixed-bed reactor. Particuology, 2013, 11, 703-714.	3.6	16
140	Facile synthesis of gradient copolymersvia semi-batch copper(0)-mediated living radical copolymerization at ambient temperature. Polymer Chemistry, 2013, 4, 76-84.	3.9	27
141	Synthesis, surface property, micellization and pH responsivity of fluorinated gradient copolymers. Journal of Polymer Science Part A, 2013, 51, 1107-1117.	2.3	25
142	Direct concurrent multi-scale CFD modeling: The effect of intraparticle transfer on the flow field in a MTO FBR. Chemical Engineering Science, 2013, 104, 690-700.	3.8	18
143	Evaluating the role of intraparticle mass and heat transfers in a commercial FCC riser: A meso-scale study. Chemical Engineering Journal, 2013, 228, 352-365.	12.7	20
144	Doubleâ€hydrophobic siloxane diblock copolymers: Synthesis, micellization behavior, and application as a stabilizer for silver nanoparticles. Polymer Engineering and Science, 2013, 53, 1475-1486.	3.1	5

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145	Facile preparation of gold nanoparticles using the self-assembled ABC non-amphiphilic fluorosilicone triblock copolymer template. Materials Chemistry and Physics, 2013, 138, 780-786.	4.0	11
146	Enhanced understanding and implementation of the self-assembly of fluorosilicone double-hydrophobic diblock copolymers in dilute solutions from thermodynamic perspective: The effect of different preparation factors. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 436, 990-999.	4.7	4
147	The synthesis and enhancement of the surface properties of polyfluorene-based photoelectric materials by introducing fluoromonomers. RSC Advances, 2013, 3, 5045.	3.6	8
148	Numerical simulation of the turbulent gasâ€"solid flow and reaction in a polydisperse FCC riser reactor. Powder Technology, 2013, 237, 569-580.	4.2	57
149	Numerical Simulation of Influence of Feed Injection on Hydrodynamic Behavior and Catalytic Cracking Reactions in a FCC Riser under Reactive Conditions. Industrial & Engineering Chemistry Research, 2013, 52, 11084-11098.	3.7	37
150	Intraparticle Mass and Heat Transfer Modeling of Methanol to Olefins Process on SAPO-34: A Single Particle Model. Industrial & Engineering Chemistry Research, 2013, 52, 3693-3707.	3.7	15
151	A dynamically distributed reactor model for identifying the flow fields in industrial loop propylene polymerization reactors. Journal of Applied Polymer Science, 2013, 128, 4302-4313.	2.6	5
152	Modeling of the atom transfer radical polymerization for preparing novel fluorosilicone diblock copolymers in a semiâ€batch reactor. Journal of Applied Polymer Science, 2013, 130, 3473-3481.	2.6	4
153	Synthesis and pH-responsive micellization of brush copolymers poly(methyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 427 Td (m profile. Soft Matter, 2012, 8, 11051.	2.7	24
154	Modeling for the catalytic coupling reaction of carbon monoxide to diethyl oxalate in fixed-bed reactors: Reactor model and its applications. Chemical Engineering Research and Design, 2012, 90, 1361-1371.	5.6	12
155	Design of a two-stage fluidized bed reactor for preparation of diethyl oxalate from carbon monoxide. Chemical Engineering Research and Design, 2012, 90, 915-925.	5.6	13
156	A CFD-PBM coupled model with polymerization kinetics for multizone circulating polymerization reactors. Powder Technology, 2012, 231, 77-87.	4.2	37
157	A CFD Modeling Approach to Design a New Gas Barrier in a Multizone Circulating Polymerization Reactor. Industrial & Engineering Chemistry Research, 2012, 51, 15132-15144.	3.7	20
158	Regular polygonal micelles induced from fluorosilicone diblock copolymers. Journal of Polymer Science Part A, 2012, 50, 1249-1253.	2.3	8
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