Yongrong Yang

List of Publications by Year in descending order

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187 papers	2,961 citations	185998 28 h-index	288905 40 g-index
188 all docs	188 docs citations	188 times ranked	1806 citing authors

#	Article	IF	Citations
1	Sustainability performance evaluation in industry by composite sustainability index. Clean Technologies and Environmental Policy, 2012, 14, 789-803.	2.1	121
2	Integrating purifiers in refinery hydrogen networks: a retrofit case study. Journal of Cleaner Production, 2010, 18, 233-241.	4.6	112
3	Novel NiPt alloy nanoparticle decorated 2D layered g-C₃N₄ nanosheets: a highly efficient catalyst for hydrogen generation from hydrous hydrazine. Journal of Materials Chemistry A, 2019, 7, 8798-8804.	5.2	68
4	Optimal design of sustainable hydrogen networks. International Journal of Hydrogen Energy, 2013, 38, 2937-2950.	3.8	62
5	Hydrogen sulfide removal process embedded optimization of hydrogen network. International Journal of Hydrogen Energy, 2012, 37, 18163-18174.	3.8	57
6	Robust optimization of hydrogen network. International Journal of Hydrogen Energy, 2014, 39, 1210-1219.	3.8	51
7	Molecular reconstruction: Recent progress toward composition modeling of petroleum fractions. Chemical Engineering Journal, 2019, 357, 761-775.	6.6	51
8	Modelling and simulation of two-bed PSA process for separating H2 from methane steam reforming. Chinese Journal of Chemical Engineering, 2019, 27, 1870-1878.	1.7	51
9	Systematic Optimization of Heat-Integrated Water Allocation Networks. Industrial & Engineering Chemistry Research, 2011, 50, 6713-6727.	1.8	49
10	CFD-DEM investigation of particle elutriation with electrostatic effects in gas-solid fluidized beds. Powder Technology, 2017, 308, 422-433.	2.1	44
11	Bubble breakup in a swirl-venturi microbubble generator. Chemical Engineering Journal, 2021, 403, 126397.	6.6	44
12	Experimental investigation of electrostatic effect on bubble behaviors in gasâ€solid fluidized bed. AICHE Journal, 2015, 61, 1160-1171.	1.8	39
13	Facile high-temperature synthesis of weakly entangled polyethylene using a highly activated Ziegler-Natta catalyst. Journal of Catalysis, 2018, 360, 145-151.	3.1	39
14	Characterization on hydrodynamic behavior in liquidâ€containing gasâ€solid fluidized bed reactor. AICHE Journal, 2013, 59, 1056-1065.	1.8	37
15	Pinch Sliding Approach for Targeting Hydrogen and Water Networks with Different Types of Purifier. Industrial & Engineering Chemistry Research, 2013, 52, 8538-8549.	1.8	36
16	Effect of metal on the methanol to aromatics conversion over modified ZSM-5 in the presence of carbon dioxide. RSC Advances, 2017, 7, 10729-10736.	1.7	36
17	Modeling solubility of gases in semicrystalline polyethylene. Journal of Applied Polymer Science, 2007, 103, 1737-1744.	1.3	35
18	Methanol to Propylene Process in a Moving Bed Reactor with Byproducts Recycling: Kinetic Study and Reactor Simulation. Industrial & Engineering Chemistry Research, 2014, 53, 4623-4632.	1.8	35

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19	Realization and control of multiple temperature zones in liquidâ€‹containing gasâ€“solid fluidized bed reactor. AIChE Journal, 2016, 62, 1454-1466.	1.8	34
20	Characterization of Particle Fluidization Pattern in a Gas Solid Fluidized Bed Based on Acoustic Emission (AE) Measurement. Industrial & Engineering Chemistry Research, 2009, 48, 8508-8514.	1.8	33
21	Energy and Water Management for Industrial Large-Scale Water Networks: A Systematic Simultaneous Optimization Approach. ACS Sustainable Chemistry and Engineering, 2018, 6, 2269-2282.	3.2	33
22	CFD simulation and experiments of dynamic parameters in gasâ€“solid fluidized bed. Chemical Engineering Science, 2011, 66, 4972-4982.	1.9	32
23	A novel two-step method to design inter-plant hydrogen network. International Journal of Hydrogen Energy, 2019, 44, 5686-5695.	3.8	32
24	Effects of thermoâ€‹oxidative aging on chain mobility, phase composition, and mechanical behavior of highâ€‹density polyethylene. Polymer Engineering and Science, 2011, 51, 2171-2177.	1.5	31
25	Acoustic Analysis of Particleâ€“Wall Interaction and Detection of Particle Mass Flow Rate in Vertical Pneumatic Conveying. Industrial & Engineering Chemistry Research, 2014, 53, 9938-9948.	1.8	31
26	Entanglement Formation Mechanism in the POSS Modified Heterogeneous Zieglerâ€“Natta Catalysts. Macromolecules, 2019, 52, 7593-7602.	2.2	31
27	Leveraging 3D Printing for the Design of High-Performance Venturi Microbubble Generators. Industrial & Engineering Chemistry Research, 2020, 59, 8447-8455.	1.8	31
28	Performance comparison of swirl-venturi bubble generator and conventional venturi bubble generator. Chemical Engineering and Processing: Process Intensification, 2020, 154, 108022.	1.8	31
29	Effects of Interparticle Forces on Fluidization Characteristics in Liquid-Containing and High-Temperature Fluidized Beds. Industrial & Engineering Chemistry Research, 2013, 52, 16666-16674.	1.8	30
30	Characterization of the bubble swarm trajectory in a jet bubbling reactor. AIChE Journal, 2019, 65, e16565.	1.8	29
31	Modeling the solubility of ternary mixtures of ethylene,iso-pentane,n-hexane in semicrystalline polyethylene. Journal of Applied Polymer Science, 2007, 104, 3654-3662.	1.3	28
32	MPEC strategies for efficient and stable scheduling of hydrogen pipeline network operation. Applied Energy, 2014, 119, 296-305.	5.1	28
33	Targeting of heat integrated water allocation networks by one-step MILP formulation. Applied Energy, 2017, 197, 254-269.	5.1	28
34	Ce/MgAl mixed oxides derived from hydrotalcite LDH precursors as highly efficient catalysts for ketonization of carboxylic acid. Catalysis Science and Technology, 2019, 9, 6335-6344.	2.1	28
35	Bimodal/Broad Polyethylene Prepared in a Disentangled State. Industrial & Engineering Chemistry Research, 2014, 53, 1088-1096.	1.8	27
36	Simultaneous Optimization of Heat-Integrated Water Allocation Networks Using the Mathematical Model with Equilibrium Constraints Strategy. Industrial & Engineering Chemistry Research, 2015, 54, 3355-3366.	1.8	26

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37	Effect of hydrodynamic behavior on electrostatic potential distribution in gasâ€“solid fluidized bed. Powder Technology, 2013, 235, 9-17.	2.1	25
38	Two-Fluid Model Simulations of the National Energy Technology Laboratory Bubbling Fluidized Bed Challenge Problem. Industrial & Engineering Chemistry Research, 2016, 55, 5063-5077.	1.8	25
39	Promotional effect of Ti doping on the ketonization of acetic acid over a CeO₂ catalyst. RSC Advances, 2017, 7, 22017-22026.	1.7	25
40	Design Energy Efficient Water Utilization Systems Allowing Operation Split. Chinese Journal of Chemical Engineering, 2008, 16, 16-20.	1.7	24
41	Catalytic performance of Au^{III} supported on SiO₂ modified activated carbon. RSC Advances, 2014, 4, 36316-36324.	1.7	24
42	Experimental investigation of electrostatic effect on particle motions in gasâ€solid fluidized beds. AICHE Journal, 2015, 61, 3628-3638.	1.8	24
43	Heat Transfer Blocks Diagram: A Novel Tool for Targeting and Design of Heat Exchanger Networks Inside Heat Integrated Water Allocation Networks. ACS Sustainable Chemistry and Engineering, 2018, 6, 2704-2715.	3.2	24
44	Simultaneous Design of Hydrogen Allocation Networks and PSA Inside Refineries. Industrial & Engineering Chemistry Research, 2020, 59, 4712-4720.	1.8	24
45	Measurement of Flow Characteristics in a Bubbling Fluidized Bed Using Electrostatic Sensor Arrays. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 703-712.	2.4	23
46	Balancing between risk and profit in refinery hydrogen networks: A Worst-Case Conditional Value-at-Risk approach. Chemical Engineering Research and Design, 2019, 146, 201-210.	2.7	23
47	Bi-objective optimization of a water network via benchmarking. Journal of Cleaner Production, 2013, 39, 168-179.	4.6	22
48	Mixing potential: A new concept for optimal design of hydrogen and water networks with higher disturbance resistance. AICHE Journal, 2014, 60, 3762-3772.	1.8	22
49	A thermodynamic irreversibility based design method for multi-contaminant hydrogen networks. International Journal of Hydrogen Energy, 2015, 40, 435-443.	3.8	22
50	Experimental and Modeling Investigation of Liquid-Induced Agglomeration in a Gasâ€“Solid Fluidized Bed with Liquid Spray. Industrial & Engineering Chemistry Research, 2020, 59, 11810-11822.	1.8	22
51	Machine learning assisted measurement of solid mass flow rate in horizontal pneumatic conveying by acoustic emission detection. Chemical Engineering Science, 2021, 229, 116083.	1.9	22
52	Simultaneous optimization of heat-integrated water allocation networks. Applied Energy, 2016, 169, 395-407.	5.1	21
53	The influence of purifier models on hydrogen network optimization: Insights from a case study. International Journal of Hydrogen Energy, 2016, 41, 5243-5249.	3.8	21
54	Investigating Agglomeration Behaviors in High Temperature Gasâ€“Solid Fluidized Beds with Liquid Injection. Industrial & Engineering Chemistry Research, 2018, 57, 5482-5494.	1.8	21

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55	Novel graphical tool for the design of the heat integrated water allocation networks. AICHE Journal, 2016, 62, 670-686.	1.8	20
56	Electrostatic potentials in gasâ€“solid fluidized beds influenced by the injection of charge inducing agents. Journal of Electrostatics, 2009, 67, 815-826.	1.0	19
57	Influence of nanofiller dimensionality on the crystallization behavior of HDPE/carbon nanocomposites. Journal of Applied Polymer Science, 2013, 128, 3609-3618.	1.3	19
58	Multiâ€scale analysis of acoustic emission signals in denseâ€phase pneumatic conveying of pulverized coal at high pressure. AICHE Journal, 2016, 62, 2635-2648.	1.8	19
59	Transshipment type heat exchanger network model for intra- and inter-plant heat integration using process streams. Energy, 2019, 178, 853-866.	4.5	19
60	Experimental study of bubble dynamics and flow transition recognition in a fluidized bed with wet particles. Chemical Engineering Science, 2020, 211, 115257.	1.9	19
61	Experimental Investigation of Particle Size Effect on Agglomeration Behaviors in Gasâ€“Solid Fluidized Beds. Industrial & Engineering Chemistry Research, 2015, 54, 12177-12186.	1.8	18
62	New transshipment type MINLP model for heat exchanger network synthesis. Chemical Engineering Science, 2017, 173, 537-559.	1.9	18
63	Efficient Au⁰/C catalyst synthesized by a new method for acetylene hydrochlorination. RSC Advances, 2015, 5, 46366-46371.	1.7	17
64	Automatic Design of Multi-Impurity Refinery Hydrogen Networks Using Mixing Potential Concept. Industrial & Engineering Chemistry Research, 2017, 56, 6703-6710.	1.8	17
65	Methanol to Propylene over Foam SiC-Supported ZSM-5 Catalyst: Performance of Multiple Reactionâ€“Regeneration Cycles. Industrial & Engineering Chemistry Research, 2019, 58, 27-33.	1.8	17
66	Kinetic modeling with automatic reaction network generator, an application to naphtha steam cracking. Energy, 2020, 207, 118204.	4.5	17
67	Simultaneous Optimization of a Heat Exchanger Network and Operating Conditions of Organic Rankine Cycle. Industrial & Engineering Chemistry Research, 2020, 59, 11596-11609.	1.8	17
68	Contribution of the Initially Entangled State and Particle Size to the Sintering Kinetics of UHMWPE. Macromolecules, 2022, 55, 1310-1320.	2.2	17
69	CFD investigation of particle fluctuation characteristics of bidisperse mixture in a gasâ€“solid fluidized bed. Chemical Engineering Science, 2012, 82, 285-298.	1.9	16
70	Stability Analysis of Ethylene Polymerization in a Liquid-Containing Gasâ€“Solid Fluidized Bed Reactor. Industrial & Engineering Chemistry Research, 2018, 57, 5616-5629.	1.8	16
71	Effects of DC electric fields on meso-scale structures in electrostatic gas-solid fluidized beds. Chemical Engineering Journal, 2018, 332, 293-302.	6.6	16
72	Hydrodynamics in a jet bubbling reactor: Experimental research and mathematical modeling. AICHE Journal, 2018, 64, 1814-1827.	1.8	16

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73	Fe(acac)_n and Co(acac)_n bearing different bis(imino)pyridine ligands for ethylene polymerization and oligomerization. Journal of Applied Polymer Science, 2009, 113, 2378-2391.	1.3	15
74	Experimental Investigation of Electrostatic Reduction in a Gasâ€“Solid Fluidized Bed by an in Situ Corona Charge Eliminator. Industrial & Engineering Chemistry Research, 2014, 53, 14217-14224.	1.8	15
75	Solubility measurement of hydrogen, ethylene, and 1â€hexene in polyethylene films through an intelligent gravimetric analyzer. Journal of Applied Polymer Science, 2017, 134, .	1.3	15
76	Dynamic and Steady-State Characterization of the Liquid Spray Zone in an Externally Heated Gasâ€“Solid Fluidized Bed. Industrial & Engineering Chemistry Research, 2018, 57, 2988-3001.	1.8	15
77	Enhancing low-temperature methane conversion on Zn/ZSM-5 in the presence of methanol by regulating the methanol-to-aromatics reaction pathway. Catalysis Science and Technology, 2020, 10, 6161-6172.	2.1	15
78	Systematic Design and Optimization of a Membraneâ€“Cryogenic Hybrid System for CO₂ Capture. ACS Sustainable Chemistry and Engineering, 2019, 7, 17186-17197.	3.2	14
79	Important mesoscale phenomena in gas phase fluidized bed ethylene polymerization. Particuology, 2020, 48, 116-143.	2.0	14
80	On flow regime transition in trickle bed: Development of a novel deepâ€learningâ€assisted image analysis method. AICHE Journal, 2020, 66, e16833.	1.8	14
81	Improvement of performance of a Auâ€“Cu/AC catalyst using thiol for acetylene hydrochlorination reaction. RSC Advances, 2016, 6, 3806-3814.	1.7	13
82	Thermal-Stability Analysis of Ethylene-Polymerization Fluidized-Bed Reactors under Condensed-Mode Operation through a TPMâ^'PBM Integrated Model. Industrial & Engineering Chemistry Research, 2019, 58, 9486-9499.	1.8	13
83	Classification and identification of gasâ€“liquid dispersion states in a jet bubbling reactor. AICHE Journal, 2020, 66, e16778.	1.8	13
84	Experimental measurement of bubble breakup in a jet bubbling reactor. AICHE Journal, 2021, 67, .	1.8	13
85	Globally optimal design of refinery hydrogen networks with pressure discretization. Chemical Engineering Science, 2022, 247, 117021.	1.9	13
86	Effects of agglomerates on electrostatic behaviors in gasâ€“solid fluidized beds. Powder Technology, 2016, 287, 139-151.	2.1	12
87	Molecular Reconstruction of Naphtha via Limited Bulk Properties: Methods and Comparisons. Industrial & Engineering Chemistry Research, 2019, 58, 18742-18755.	1.8	12
88	Bubble Size Distribution and Rise Velocity in a Jet Bubbling Reactor. Industrial & Engineering Chemistry Research, 2019, 58, 19271-19279.	1.8	12
89	A volatile spray zone model and experimentation in a gas-solid fluidized bed with liquid injection. Chemical Engineering Science, 2021, 231, 116306.	1.9	12
90	Agglomeration detection based on attractor comparison in horizontal stirred bed reactors by acoustic emission sensors. AICHE Journal, 2009, 55, 3099-3108.	1.8	11

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91	Siloxane-mediated ethylene oligomerization with iron-based catalysts: Retarding the polymer formation. Journal of Polymer Science Part A, 2014, 52, 2748-2759.	2.5	11
92	Energy configuration and operation optimization of refinery fuel gas networks. Applied Energy, 2015, 139, 365-375.	5.1	11
93	Revealing the Dynamic Behaviors of Tetrahydrofuran for Tailoring the Active Species of Zieglerâ€“Natta Catalysts. ACS Catalysis, 2021, 11, 4411-4421.	5.5	11
94	Performance Evaluation and Scale-Up Behavior of an Engineered In-Line Mixer for 3D Printing. Industrial & Engineering Chemistry Research, 2021, 60, 11568-11578.	1.8	11
95	Synthesis of Weakly Entangled Ultra-High-Molecular-Weight Polyethylene with a Fine Particle Size. Industrial & Engineering Chemistry Research, 2021, 60, 3354-3362.	1.8	11
96	Diffusion measurements of isopentane, 1â€hexene, cyclohexane in polyethylene particles by the intelligent gravimetric analyzer. Journal of Applied Polymer Science, 2013, 127, 1098-1104.	1.3	10
97	Computational Fluid Dynamics Simulations and Experimental Validation of Macromixing and Flow Characteristics in Low-Density Polyethylene Autoclave Reactors. Industrial & Engineering Chemistry Research, 2014, 53, 14865-14875.	1.8	10
98	Particle Motion in Twoâ€•and Threeâ€Phase Fluidizedâ€Bed Reactors Determined by Pulsed Field Gradient Nuclear Magnetic Resonance. Chemical Engineering and Technology, 2015, 38, 1269-1276.	0.9	10
99	Flow regime identification in horizontal pneumatic conveying by nonintrusive acoustic emission detection. AICHE Journal, 2019, 65, e16552.	1.8	10
100	Experimental characterization of liquid film behavior during dropletsâ€“polyethylene particle collision. AICHE Journal, 2020, 66, e16909.	1.8	10
101	Hybrid titanium catalyst supported on coreâ€shell silica/poly(styreneâ€coâ€acrylic acid) carrier. Journal of Applied Polymer Science, 2010, 118, 1743-1751.	1.3	9
102	Ethylene polymerization with hybrid nickel diimine/Cp₂TiCl₂ catalyst: a new method to prepare blends of linear and branched polyethylene. Polymer International, 2010, 59, 617-623.	1.6	9
103	Organic/inorganic support for immobilizing (nâ€BuCp)₂ZrCl₂/TiCl₃ hybrid catalyst for use in the preparation of polymer blends. Polymer International, 2011, 60, 676-684.	1.6	9
104	Multilevel strategies for the retrofit of largeâ€scale industrial water system: A brewery case study. AICHE Journal, 2012, 58, 884-898.	1.8	9
105	Exploring the effects of phenolic compounds on bis(imino)pyridine iron-catalyzed ethylene oligomerization. RSC Advances, 2015, 5, 95981-95993.	1.7	9
106	Optimal process design for recovering effluent gas at subambient temperature. Journal of Cleaner Production, 2017, 144, 130-141.	4.6	9
107	Kinetic and regenerator modeling of the coke combustion in the moving bed MTP process. Chemical Engineering Research and Design, 2017, 122, 52-62.	2.7	9
108	Optimal design of hybrid cryogenic flash and membrane system. Chemical Engineering Science, 2018, 179, 13-31.	1.9	9

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109	Experimental investigation on mechanisms of fine particles generation for the Borealis Borstar multistage olefin polymerization process. Journal of Applied Polymer Science, 2018, 135, 46589.	1.3	9
110	Targeting and Design of Work and Heat Exchange Networks. Industrial & Engineering Chemistry Research, 2020, 59, 12471-12486.	1.8	9
111	An NMR investigation on the phase structure and molecular mobility of the novel exfoliated polyethylene/palygorskite nanocomposites. Journal of Polymer Science, Part B: Polymer Physics, 2010, 48, 1363-1371.	2.4	8
112	Simultaneous measurement of electrostatic charge and its effect on particle motions by electrostatic sensors array in gas-solid fluidized beds. Powder Technology, 2017, 312, 29-37.	2.1	8
113	New Insights into Tâ€“H/Hâ€“F Diagrams for Synthesis of Heat Exchanger Networks inside Heat Integrated Water Allocation Networks. Industrial & Engineering Chemistry Research, 2018, 57, 9323-9328.	1.8	8
114	Characterization of Fluidization Regimes and Their Transition in Gasâ€“Solid Fluidization by Hilbertâ€“Huang Transform. Industrial & Engineering Chemistry Research, 2020, 59, 883-896.	1.8	8
115	Computational fluid dynamics simulations of interphase heat transfer in a bubbling fluidized bed. Korean Journal of Chemical Engineering, 2014, 31, 1148-1161.	1.2	7
116	Simultaneous design of heat integrated water allocation networks considering all possible splitters and mixers. Energy, 2022, 238, 121916.	4.5	7
117	The Intermittent Dormancy of Ethylene Polymerization with the Assistance of Nitrogen Microbubbles. Macromolecules, 2021, 54, 9418-9426.	2.2	7
118	Solvent diffusion in silica/poly[styreneâ€coâ€(acrylic acid)] coreâ€shell microspheres by pulsed field gradient NMR techniques. Journal of Applied Polymer Science, 2014, 131, .	1.3	6
119	Tuning Bis(imino)pyridyl Ironâ€Catalyzed Ethylene Oligomerization by Modification of MAO with pâ€BrPhOH. Macromolecular Reaction Engineering, 2018, 12, 1700061.	0.9	6
120	Assessment of the TFM in predicting the onset of turbulent fluidization. Chinese Journal of Chemical Engineering, 2019, 27, 979-992.	1.7	6
121	Simulation-Based Multiobjective Optimization of the Product Separation Process within an MTP Plant. Industrial & Engineering Chemistry Research, 2019, 58, 12166-12178.	1.8	6
122	Experimental study of the effect of inclination angle on the minimum conveying velocity and the underlying mechanisms. AICHE Journal, 2020, 66, e16830.	1.8	6
123	Simultaneous Optimization for Organic Rankine Cycle Design and Heat Integration. Industrial & Engineering Chemistry Research, 2020, 59, 20455-20471.	1.8	6
124	Characterization of flow pattern of cohesive particles in gas-solid fluidized bed via axial distribution of particle motions. International Journal of Multiphase Flow, 2020, 130, 103355.	1.6	6
125	Investigation of pressure drop in a cocurrent downflow threeâ€phase moving bed. AICHE Journal, 2020, 66, e16227.	1.8	6
126	Evolution and fluidization behaviors of wet agglomerates based on formation-fragmentation competition mechanism. Chemical Engineering Science, 2022, 247, 116933.	1.9	6

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127	Kinetic Perspective on Methanol to Propylene Process via HZSM-5 Catalyst: Balancing between Reaction and Diffusion. Industrial & Engineering Chemistry Research, 2022, 61, 2055-2067.	1.8	6
128	Measurement of the fluidized velocity in gas-solid fluidized beds based on AE signal analysis by wavelet packet transform. Science in China Series B: Chemistry, 2007, 50, 284-289.	0.8	5
129	Strategy of effluent recovery technology selection in polyolefin plants. Chemical Engineering Research and Design, 2016, 103, 405-412.	2.7	5
130	Online measurement of particle charge density in a gas-solid bubbling fluidized bed through electrostatic and pressure sensing. Powder Technology, 2017, 317, 471-480.	2.1	5
131	Effects of Methylaluminoxane Modifications on Tuning the Bis(Imino)Pyridyl Ironâ€Catalyzed Oligomerization of Ethylene. Polymer Engineering and Science, 2019, 59, 1010-1016.	1.5	5
132	Efficient Synthesis of Low-Polydispersity UHMWPE by Elevating Active Sites on Anchored POSS Molecules. Industrial & Engineering Chemistry Research, 2020, 59, 19964-19971.	1.8	5
133	Electrostatic effects on hydrodynamics in the riser of the circulating fluidized bed for polypropylene. AICHE Journal, 2020, 66, e16916.	1.8	5
134	The chain microstructure and condensed structure of polyethylene resin used for Biaxially stretched film. Journal of Applied Polymer Science, 2021, 138, 49652.	1.3	5
135	Efficient Strategy for the Synthesis of Work and Heat Exchange Networks. Industrial & Engineering Chemistry Research, 2021, 60, 1756-1773.	1.8	5
136	A 3D-printed continuous flow platform for the synthesis of methylaluminoxane. Green Chemistry, 2021, 23, 4087-4094.	4.6	5
137	Dynamic characteristics of the volatile cloudy zone in a gasâ€“solid fluidized bed with hydrocarbon liquid spray. AICHE Journal, 2021, 67, aic17155.	1.8	5
138	Morphology evolution and mechanical property enhancement of linear lowâ€density polyethylene by adding disentangled ultrahigh molecular weight polyethylene. Polymers for Advanced Technologies, 2022, 33, 1047-1056.	1.6	5
139	Flow Toolkit for Measuring Reaction Enthalpy and Application to Highly Exothermic Synthesis of Alkylaluminoxanes. Organic Process Research and Development, 2022, 26, 1506-1513.	1.3	5
140	TiCl₄ immobilized on a composite support SiO₂/MgCl₂Â·x(1,4â€butanediol)/poly[styreneâ€coâ€(acrylic acid)] for ethylene polymerization: The barrier effect of poly[styreneâ€coâ€(acrylic acid)]. Journal of Applied Polymer Science, 2012, 125, 1207-1218.	1.3	4
141	Solvents Molecular Mobility in Coked Catalyst ZSM-5 Studied by NMR Relaxation and Pulsed Field Gradient Techniques. Industrial & Engineering Chemistry Research, 2018, 57, 6647-6653.	1.8	4
142	Effects of aluminoxane cocatalysts on bis(imino)pyridine ironâ€catalyzed ethylene oligomerization. Canadian Journal of Chemical Engineering, 2019, 97, 903-910.	0.9	4
143	Indirect Heat Integration across Plants: Novel Representation of Intermediate Fluid Circles. Industrial & Engineering Chemistry Research, 2019, 58, 7233-7246.	1.8	4
144	Selective distribution and contribution of nickel based pre-catalyst in the multisite catalyst for the synthesis of desirable bimodal polyethylene. European Polymer Journal, 2020, 135, 109878.	2.6	4

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145	Evolution and Interaction Characteristics of Liquid Flow and Bubbles in a Jet Bubbling Column. Industrial & Engineering Chemistry Research, 2020, 59, 21217-21230.	1.8	4
146	Hydrodynamics and heat transfer in a fluidized bed with liquid spray: Particle color-change based measurement and modelling. Chemical Engineering Science, 2021, 229, 116088.	1.9	4
147	The screened waveguide for intrusive acoustic emission detection and its application in circulating fluidized bed. AICHE Journal, 2021, 67, e17118.	1.8	4
148	Acidity Modification of ZSM-5 for Methane Conversion in Co-feeding Method with MTA Reaction. Chemical Research in Chinese Universities, 2022, 38, 1012-1017.	1.3	4
149	Continuous synthesis of isobutylaluminoxanes in a compact and integrated approach. Chemical Engineering Journal, 2021, 425, 131750.	6.6	4
150	Simultaneous optimization of hydrogen network with desulfurization processes embedded. Computer Aided Chemical Engineering, 2012, 31, 215-219.	0.3	4
151	Effects of internal structures on mass transfer performance of jet bubbling reactor. Chemical Engineering and Processing: Process Intensification, 2022, 175, 108936.	1.8	4
152	Adsorption Equilibria of Hexane and Isopentane on Polyethylene at Different Temperatures, Pressures, and Particle Sizes. Journal of Chemical & Engineering Data, 2001, 46, 1222-1224.	1.0	3
153	A STUDY OF ULTRASONIC RADIATION DISSIPATION IN POWDER PROCESSING SYSTEM. Chemical Engineering Communications, 2009, 197, 239-249.	1.5	3
154	Bi-objective MINLP optimization of an industrial water network via benchmarking. Computer Aided Chemical Engineering, 2012, , 475-479.	0.3	3
155	Investigation of the extraction process in gelâ€spinning technology for ultrahighâ€molecularâ€weight polyethylene fibers by lowâ€field nuclear magnetic resonance. Journal of Applied Polymer Science, 2015, 132, .	1.3	3
156	Modeling Agglomeration Behavior in High Temperature Gasâ€“Solid Fluidized Beds via Monte Carlo Method. Industrial & Engineering Chemistry Research, 2017, 56, 1112-1121.	1.8	3
157	Fluidization of Cohesive Fluorite Particles at Ambient/High Temperatures and Enhancement Methods. Industrial & Engineering Chemistry Research, 2018, 57, 4697-4709.	1.8	3
158	Critical comparison of electrostatic effects on hydrodynamics and heat transfer in a bubbling fluidized bed with a central jet. Chemical Engineering Science, 2018, 191, 156-168.	1.9	3
159	Electrostatic Distribution in the Riser of the Multizone Circulating Fluidized Bed for Polypropylene. Industrial & Engineering Chemistry Research, 2019, 58, 12301-12311.	1.8	3
160	Flow regimes in a gasâ€“liquidâ€“solid threeâ€phase moving bed. AICHE Journal, 2021, 67, e17374.	1.8	3
161	Optimal Design of a Subambient Membrane Separation System with Work and Heat Integration for CO₂ Capture. Industrial & Engineering Chemistry Research, 2021, 60, 15194-15207.	1.8	3
162	Tailoring the Chain Entanglement by Nitrogen Bubble-Assisted Polymerization. Industrial & Engineering Chemistry Research, 2021, 60, 15951-15959.	1.8	3

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163	Formation of liquid and solid bridges under the interactions between droplet-polyethylene particle pairs. Chemical Engineering Science, 2022, 250, 117369.	1.9	3
164	Suppressing the Entanglements of Ultrahigh-Molecular-Weight Polyethylene via Controlling the Adhesion Effect in a POSS-Modified Support. Industrial & Engineering Chemistry Research, 2022, 61, 6367-6374.	1.8	3
165	MILP Model for the Nonlinear Problem of Optimal Purifier Placement. Process Integration and Optimization for Sustainability, 2018, 2, 85-94.	1.4	2
166	Stable operating range and solids residence time of fine fluorite particles in the two-stage fluidized bed. Chemical Engineering and Processing: Process Intensification, 2019, 142, 107558.	1.8	2
167	Pore plugging effects on the performance of ZSM-5 catalyst in MTP reaction using a discrete model. Chinese Journal of Chemical Engineering, 2021, 32, 253-263.	1.7	2
168	Risk management for hydrogen networks across refineries. International Journal of Hydrogen Energy, 2022, 47, 848-861.	3.8	2
169	The microstructure-tensile property relationship of polyethylene resin for biaxially stretched film. Journal of Polymer Research, 2022, 29, 1.	1.2	2
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