

Yongrong Yang

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

176
papers

2,173
citations

25
h-index

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g-index

188
ext. papers

2,619
ext. citations

4.5
avg, IF

5.22
L-index

#	Paper	IF	Citations
176	Sustainability performance evaluation in industry by composite sustainability index. <i>Clean Technologies and Environmental Policy</i> , 2012 , 14, 789-803	4.3	105
175	Integrating purifiers in refinery hydrogen networks: a retrofit case study. <i>Journal of Cleaner Production</i> , 2010 , 18, 233-241	10.3	102
174	Optimal design of sustainable hydrogen networks. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 2937-2950	6.7	56
173	Hydrogen sulfide removal process embedded optimization of hydrogen network. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 18163-18174	6.7	52
172	Systematic Optimization of Heat-Integrated Water Allocation Networks. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 6713-6727	3.9	47
171	Novel NiPt alloy nanoparticle decorated 2D layered g-C ₃ N ₄ nanosheets: a highly efficient catalyst for hydrogen generation from hydrous hydrazine. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 8798-8804	13	42
170	Robust optimization of hydrogen network. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 1210-1218	6.7	42
169	CFD-DEM investigation of particle elutriation with electrostatic effects in gas-solid fluidized beds. <i>Powder Technology</i> , 2017 , 308, 422-433	5.2	40
168	Pinch Sliding Approach for Targeting Hydrogen and Water Networks with Different Types of Purifier. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 8538-8549	3.9	36
167	Methanol to Propylene Process in a Moving Bed Reactor with Byproducts Recycling: Kinetic Study and Reactor Simulation. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 4623-4632	3.9	34
166	Characterization of Particle Fluidization Pattern in a Gas Solid Fluidized Bed Based on Acoustic Emission (AE) Measurement. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 8508-8514	3.9	32
165	Experimental investigation of electrostatic effect on bubble behaviors in gas-solid fluidized bed. <i>AIChE Journal</i> , 2015 , 61, 1160-1171	3.6	31
164	Facile high-temperature synthesis of weakly entangled polyethylene using a highly activated Ziegler-Natta catalyst. <i>Journal of Catalysis</i> , 2018 , 360, 145-151	7.3	30
163	Characterization on hydrodynamic behavior in liquid-containing gas-solid fluidized bed reactor. <i>AIChE Journal</i> , 2013 , 59, 1056-1065	3.6	30
162	Modeling solubility of gases in semicrystalline polyethylene. <i>Journal of Applied Polymer Science</i> , 2007 , 103, 1737-1744	2.9	30
161	Molecular reconstruction: Recent progress toward composition modeling of petroleum fractions. <i>Chemical Engineering Journal</i> , 2019 , 357, 761-775	14.7	30
160	Modelling and simulation of two-bed PSA process for separating H ₂ from methane steam reforming. <i>Chinese Journal of Chemical Engineering</i> , 2019 , 27, 1870-1878	3.2	29

159	Energy and Water Management for Industrial Large-Scale Water Networks: A Systematic Simultaneous Optimization Approach. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 2269-2282	8.3	28
158	Acoustic Analysis of Particle-Wall Interaction and Detection of Particle Mass Flow Rate in Vertical Pneumatic Conveying. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 9938-9948	3.9	28
157	CFD simulation and experiments of dynamic parameters in gas-solid fluidized bed. <i>Chemical Engineering Science</i> , 2011 , 66, 4972-4982	4.4	27
156	Realization and control of multiple temperature zones in liquid-containing gas-solid fluidized bed reactor. <i>AIChE Journal</i> , 2016 , 62, 1454-1466	3.6	27
155	Effects of thermo-oxidative aging on chain mobility, phase composition, and mechanical behavior of high-density polyethylene. <i>Polymer Engineering and Science</i> , 2011 , 51, 2171-2177	2.3	26
154	A novel two-step method to design inter-plant hydrogen network. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 5686-5695	6.7	25
153	Simultaneous Optimization of Heat-Integrated Water Allocation Networks Using the Mathematical Model with Equilibrium Constraints Strategy. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 3355-3366	3.9	25
152	Modeling the solubility of ternary mixtures of ethylene, iso-pentane, n-hexane in semicrystalline polyethylene. <i>Journal of Applied Polymer Science</i> , 2007 , 104, 3654-3662	2.9	25
151	Effect of metal on the methanol to aromatics conversion over modified ZSM-5 in the presence of carbon dioxide. <i>RSC Advances</i> , 2017 , 7, 10729-10736	3.7	24
150	Experimental investigation of electrostatic effect on particle motions in gas-solid fluidized beds. <i>AIChE Journal</i> , 2015 , 61, 3628-3638	3.6	24
149	Targeting of heat integrated water allocation networks by one-step MILP formulation. <i>Applied Energy</i> , 2017 , 197, 254-269	10.7	23
148	Effects of Interparticle Forces on Fluidization Characteristics in Liquid-Containing and High-Temperature Fluidized Beds. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 16666-16674	3.9	23
147	Design Energy Efficient Water Utilization Systems Allowing Operation Split . <i>Chinese Journal of Chemical Engineering</i> , 2008 , 16, 16-20	3.2	23
146	Bimodal/Broad Polyethylene Prepared in a Disentangled State. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 1088-1096	3.9	22
145	Effect of hydrodynamic behavior on electrostatic potential distribution in gas-solid fluidized bed. <i>Powder Technology</i> , 2013 , 235, 9-17	5.2	22
144	MPEC strategies for efficient and stable scheduling of hydrogen pipeline network operation. <i>Applied Energy</i> , 2014 , 119, 296-305	10.7	22
143	Catalytic performance of AuIII supported on SiO ₂ modified activated carbon. <i>RSC Advances</i> , 2014 , 4, 36316-36324	3.6	21
142	Heat Transfer Blocks Diagram: A Novel Tool for Targeting and Design of Heat Exchanger Networks Inside Heat Integrated Water Allocation Networks. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 2704-2715	8.3	20

141	Measurement of Flow Characteristics in a Bubbling Fluidized Bed Using Electrostatic Sensor Arrays. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2016 , 65, 703-712	5.2	20
140	Mixing potential: A new concept for optimal design of hydrogen and water networks with higher disturbance resistance. <i>AIChE Journal</i> , 2014 , 60, 3762-3772	3.6	20
139	Bi-objective optimization of a water network via benchmarking. <i>Journal of Cleaner Production</i> , 2013 , 39, 168-179	10.3	20
138	Promotional effect of Ti doping on the ketonization of acetic acid over a CeO ₂ catalyst. <i>RSC Advances</i> , 2017 , 7, 22017-22026	3.7	19
137	A thermodynamic irreversibility based design method for multi-contaminant hydrogen networks. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 435-443	6.7	19
136	Bubble breakup in a swirl-venturi microbubble generator. <i>Chemical Engineering Journal</i> , 2021 , 403, 126397	11.7	19
135	Novel graphical tool for the design of the heat integrated water allocation networks. <i>AIChE Journal</i> , 2016 , 62, 670-686	3.6	18
134	Entanglement Formation Mechanism in the POSS Modified Heterogeneous Ziegler-Natta Catalysts. <i>Macromolecules</i> , 2019 , 52, 7593-7602	5.5	18
133	Transshipment type heat exchanger network model for intra- and inter-plant heat integration using process streams. <i>Energy</i> , 2019 , 178, 853-866	7.9	18
132	Simultaneous optimization of heat-integrated water allocation networks. <i>Applied Energy</i> , 2016 , 169, 395-407	10.7	18
131	Influence of nanofiller dimensionality on the crystallization behavior of HDPE/carbon nanocomposites. <i>Journal of Applied Polymer Science</i> , 2013 , 128, 3609-3618	2.9	18
130	Electrostatic potentials in gas-solid fluidized beds influenced by the injection of charge inducing agents. <i>Journal of Electrostatics</i> , 2009 , 67, 815-826	1.7	18
129	Balancing between risk and profit in refinery hydrogen networks: A Worst-Case Conditional Value-at-Risk approach. <i>Chemical Engineering Research and Design</i> , 2019 , 146, 201-210	5.5	17
128	Characterization of the bubble swarm trajectory in a jet bubbling reactor. <i>AIChE Journal</i> , 2019 , 65, e16566	5.6	17
127	The influence of purifier models on hydrogen network optimization: Insights from a case study. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 5243-5249	6.7	17
126	Two-Fluid Model Simulations of the National Energy Technology Laboratory Bubbling Fluidized Bed Challenge Problem. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 5063-5077	3.9	17
125	Simultaneous Design of Hydrogen Allocation Networks and PSA Inside Refineries. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 4712-4720	3.9	16
124	Multi-scale analysis of acoustic emission signals in dense-phase pneumatic conveying of pulverized coal at high pressure. <i>AIChE Journal</i> , 2016 , 62, 2635-2648	3.6	16

123	New transshipment type MINLP model for heat exchanger network synthesis. <i>Chemical Engineering Science</i> , 2017 , 173, 537-559	4.4	16
122	Automatic Design of Multi-Impurity Refinery Hydrogen Networks Using Mixing Potential Concept. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 6703-6710	3.9	15
121	Efficient Au ₀ /C catalyst synthesized by a new method for acetylene hydrochlorination. <i>RSC Advances</i> , 2015 , 5, 46366-46371	3.7	15
120	Investigating Agglomeration Behaviors in High Temperature Gas/Solid Fluidized Beds with Liquid Injection. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 5482-5494	3.9	15
119	Experimental Investigation of Particle Size Effect on Agglomeration Behaviors in Gas/Solid Fluidized Beds. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 12177-12186	3.9	14
118	Experimental Investigation of Electrostatic Reduction in a Gas/Solid Fluidized Bed by an in Situ Corona Charge Eliminator. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 14217-14224	3.9	14
117	Fe(acac) _n and Co(acac) _n bearing different bis(imino)pyridine ligands for ethylene polymerization and oligomerization. <i>Journal of Applied Polymer Science</i> , 2009 , 113, 2378-2391	2.9	14
116	CFD investigation of particle fluctuation characteristics of bidisperse mixture in a gas/solid fluidized bed. <i>Chemical Engineering Science</i> , 2012 , 82, 285-298	4.4	13
115	Methanol to Propylene over Foam SiC-Supported ZSM-5 Catalyst: Performance of Multiple Reaction/Regeneration Cycles. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 27-33	3.9	13
114	Effects of agglomerates on electrostatic behaviors in gas/solid fluidized beds. <i>Powder Technology</i> , 2016 , 287, 139-151	5.2	12
113	Dynamic and Steady-State Characterization of the Liquid Spray Zone in an Externally Heated Gas/Solid Fluidized Bed. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 2988-3001	3.9	11
112	Effects of DC electric fields on meso-scale structures in electrostatic gas-solid fluidized beds. <i>Chemical Engineering Journal</i> , 2018 , 332, 293-302	14.7	11
111	Improvement of performance of a Au/Cu/AC catalyst using thiol for acetylene hydrochlorination reaction. <i>RSC Advances</i> , 2016 , 6, 3806-3814	3.7	11
110	Agglomeration detection based on attractor comparison in horizontal stirred bed reactors by acoustic emission sensors. <i>AIChE Journal</i> , 2009 , 55, 3099-3108	3.6	11
109	Simultaneous Optimization of a Heat Exchanger Network and Operating Conditions of Organic Rankine Cycle. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 11596-11609	3.9	11
108	Ce/MgAl mixed oxides derived from hydrotalcite LDH precursors as highly efficient catalysts for ketonization of carboxylic acid. <i>Catalysis Science and Technology</i> , 2019 , 9, 6335-6344	5.5	11
107	Hydrodynamics in a jet bubbling reactor: Experimental research and mathematical modeling. <i>AIChE Journal</i> , 2018 , 64, 1814-1827	3.6	11
106	Bubble Size Distribution and Rise Velocity in a Jet Bubbling Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 19271-19279	3.9	10

105	Energy configuration and operation optimization of refinery fuel gas networks. <i>Applied Energy</i> , 2015 , 139, 365-375	10.7	10
104	Performance comparison of swirl-venturi bubble generator and conventional venturi bubble generator. <i>Chemical Engineering and Processing: Process Intensification</i> , 2020 , 154, 108022	3.7	10
103	Particle Motion in Two- and Three-Phase Fluidized-Bed Reactors Determined by Pulsed Field Gradient Nuclear Magnetic Resonance. <i>Chemical Engineering and Technology</i> , 2015 , 38, 1269-1276	2	10
102	Optimal process design for recovering effluent gas at subambient temperature. <i>Journal of Cleaner Production</i> , 2017 , 144, 130-141	10.3	9
101	Kinetic and regenerator modeling of the coke combustion in the moving bed MTP process. <i>Chemical Engineering Research and Design</i> , 2017 , 122, 52-62	5.5	9
100	Flow regime identification in horizontal pneumatic conveying by nonintrusive acoustic emission detection. <i>AIChE Journal</i> , 2019 , 65, e16552	3.6	9
99	Leveraging 3D Printing for the Design of High-Performance Venturi Microbubble Generators. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 8447-8455	3.9	9
98	Stability Analysis of Ethylene Polymerization in a Liquid-Containing Gas-Solid Fluidized Bed Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 5616-5629	3.9	9
97	Systematic Design and Optimization of a Membrane-Cryogenic Hybrid System for CO ₂ Capture. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 17186-17197	8.3	9
96	Multilevel strategies for the retrofit of large-scale industrial water system: A brewery case study. <i>AIChE Journal</i> , 2012 , 58, 884-898	3.6	9
95	Organic/inorganic support for immobilizing (n-BuCp) ₂ ZrCl ₂ /TiCl ₃ hybrid catalyst for use in the preparation of polymer blends. <i>Polymer International</i> , 2011 , 60, 676-684	3.3	9
94	Ethylene polymerization with hybrid nickel diimine/Cp ₂ TiCl ₂ catalyst: a new method to prepare blends of linear and branched polyethylene. <i>Polymer International</i> , 2010 , 59, 617-623	3.3	9
93	Siloxane-mediated ethylene oligomerization with iron-based catalysts: Retarding the polymer formation. <i>Journal of Polymer Science Part A</i> , 2014 , 52, 2748-2759	2.5	8
92	An NMR investigation on the phase structure and molecular mobility of the novel exfoliated polyethylene/palygorskite nanocomposites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010 , 48, 1363-1371	2.6	8
91	Classification and identification of gas-liquid dispersion states in a jet bubbling reactor. <i>AIChE Journal</i> , 2020 , 66, e16778	3.6	8
90	Experimental and Modeling Investigation of Liquid-Induced Agglomeration in a Gas-Solid Fluidized Bed with Liquid Spray. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 11810-11822	3.9	8
89	Experimental study of bubble dynamics and flow transition recognition in a fluidized bed with wet particles. <i>Chemical Engineering Science</i> , 2020 , 211, 115257	4.4	8
88	Machine learning assisted measurement of solid mass flow rate in horizontal pneumatic conveying by acoustic emission detection. <i>Chemical Engineering Science</i> , 2021 , 229, 116083	4.4	8

87	Exploring the effects of phenolic compounds on bis(imino)pyridine iron-catalyzed ethylene oligomerization. <i>RSC Advances</i> , 2015 , 5, 95981-95993	3.7	7
86	Targeting and Design of Work and Heat Exchange Networks. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 12471-12486	3.9	7
85	Optimal design of hybrid cryogenic flash and membrane system. <i>Chemical Engineering Science</i> , 2018 , 179, 13-31	4.4	7
84	Diffusion measurements of isopentane, 1-hexene, cyclohexane in polyethylene particles by the intelligent gravimetric analyzer. <i>Journal of Applied Polymer Science</i> , 2013 , 127, 1098-1104	2.9	7
83	On flow regime transition in trickle bed: Development of a novel deep-learning-assisted image analysis method. <i>AIChE Journal</i> , 2020 , 66, e16833	3.6	7
82	Simultaneous measurement of electrostatic charge and its effect on particle motions by electrostatic sensors array in gas-solid fluidized beds. <i>Powder Technology</i> , 2017 , 312, 29-37	5.2	6
81	Characterization of flow pattern of cohesive particles in gas-solid fluidized bed via axial distribution of particle motions. <i>International Journal of Multiphase Flow</i> , 2020 , 130, 103355	3.6	6
80	Computational Fluid Dynamics Simulations and Experimental Validation of Macromixing and Flow Characteristics in Low-Density Polyethylene Autoclave Reactors. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 14865-14875	3.9	6
79	Computational fluid dynamics simulations of interphase heat transfer in a bubbling fluidized bed. <i>Korean Journal of Chemical Engineering</i> , 2014 , 31, 1148-1161	2.8	6
78	Solubility measurement of hydrogen, ethylene, and 1-hexene in polyethylene films through an intelligent gravimetric analyzer. <i>Journal of Applied Polymer Science</i> , 2017 , 134,	2.9	6
77	Important mesoscale phenomena in gas phase fluidized bed ethylene polymerization. <i>Particuology</i> , 2020 , 48, 116-143	2.8	6
76	New Insights into T _H /H _B Diagrams for Synthesis of Heat Exchanger Networks inside Heat Integrated Water Allocation Networks. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 9323-9328	3.9	6
75	Assessment of the TFM in predicting the onset of turbulent fluidization. <i>Chinese Journal of Chemical Engineering</i> , 2019 , 27, 979-992	3.2	5
74	Thermal-Stability Analysis of Ethylene-Polymerization Fluidized-Bed Reactors under Condensed-Mode Operation through a TPM _{BBM} Integrated Model. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 9486-9499	3.9	5
73	Kinetic modeling with automatic reaction network generator, an application to naphtha steam cracking. <i>Energy</i> , 2020 , 207, 118204	7.9	5
72	Tuning Bis(imino)pyridyl Iron-Catalyzed Ethylene Oligomerization by Modification of MAO with p-BrPhOH. <i>Macromolecular Reaction Engineering</i> , 2018 , 12, 1700061	1.5	5
71	Solvent diffusion in silica/poly[styrene-co-(acrylic acid)] core-shell microspheres by pulsed field gradient NMR techniques. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	5
70	Online measurement of particle charge density in a gas-solid bubbling fluidized bed through electrostatic and pressure sensing. <i>Powder Technology</i> , 2017 , 317, 471-480	5.2	5

69	Characterization of Fluidization Regimes and Their Transition in Gas-Solid Fluidization by Hilbert-Huang Transform. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 883-896	3.9	5
68	Revealing the Dynamic Behaviors of Tetrahydrofuran for Tailoring the Active Species of Ziegler-Natta Catalysts. <i>ACS Catalysis</i> , 2021 , 11, 4411-4421	13.1	5
67	Experimental study of the effect of inclination angle on the minimum conveying velocity and the underlying mechanisms. <i>AIChE Journal</i> , 2020 , 66, e16830	3.6	5
66	Enhancing low-temperature methane conversion on Zn/ZSM-5 in the presence of methanol by regulating the methanol-to-aromatics reaction pathway. <i>Catalysis Science and Technology</i> , 2020 , 10, 6164-6172	5.5	5
65	Solvents Molecular Mobility in Coked Catalyst ZSM-5 Studied by NMR Relaxation and Pulsed Field Gradient Techniques. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 6647-6653	3.9	4
64	Experimental investigation on mechanisms of fine particles generation for the Borealis Borstar multistage olefin polymerization process. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 46589	2.9	4
63	Molecular Reconstruction of Naphtha via Limited Bulk Properties: Methods and Comparisons. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 18742-18755	3.9	4
62	TiCl ₄ immobilized on a composite support SiO ₂ /MgCl ₂ ·(1,4-butanediol)/poly[styrene-co-(acrylic acid)] for ethylene polymerization: The barrier effect of poly[styrene-co-(acrylic acid)]. <i>Journal of Applied Polymer Science</i> , 2012 , 125, 1207-1218	2.9	4
61	Measurement of the fluidized velocity in gas-solid fluidized beds based on AE signal analysis by wavelet packet transform. <i>Science in China Series B: Chemistry</i> , 2007 , 50, 284-289		4
60	Experimental characterization of liquid film behavior during droplets-polyethylene particle collision. <i>AIChE Journal</i> , 2020 , 66, e16909	3.6	4
59	Selective distribution and contribution of nickel based pre-catalyst in the multisite catalyst for the synthesis of desirable bimodal polyethylene. <i>European Polymer Journal</i> , 2020 , 135, 109878	5.2	4
58	Performance Evaluation and Scale-Up Behavior of an Engineered In-Line Mixer for 3D Printing. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 11568-11578	3.9	4
57	Strategy of effluent recovery technology selection in polyolefin plants. <i>Chemical Engineering Research and Design</i> , 2016 , 103, 405-412	5.5	4
56	Experimental measurement of bubble breakup in a jet bubbling reactor. <i>AIChE Journal</i> , 2021 , 67,	3.6	4
55	Modeling Agglomeration Behavior in High Temperature Gas-Solid Fluidized Beds via Monte Carlo Method. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 1112-1121	3.9	3
54	Electrostatic Distribution in the Riser of the Multizone Circulating Fluidized Bed for Polypropylene. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 12301-12311	3.9	3
53	Simulation-Based Multiobjective Optimization of the Product Separation Process within an MTP Plant. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 12166-12178	3.9	3
52	Indirect Heat Integration across Plants: Novel Representation of Intermediate Fluid Circles. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 7233-7246	3.9	3

51	Simultaneous Optimization for Organic Rankine Cycle Design and Heat Integration. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 20455-20471	3.9	3
50	Investigation of pressure drop in a cocurrent downflow three-phase moving bed. <i>AIChE Journal</i> , 2020 , 66, e16227	3.6	3
49	Bi-objective MINLP optimization of an industrial water network via benchmarking. <i>Computer Aided Chemical Engineering</i> , 2012 , 475-479	0.6	3
48	A STUDY OF ULTRASONIC RADIATION DISSIPATION IN POWDER PROCESSING SYSTEM. <i>Chemical Engineering Communications</i> , 2009 , 197, 239-249	2.2	3
47	Adsorption Equilibria of Hexane and Isopentane on Polyethylene at Different Temperatures, Pressures, and Particle Sizes. <i>Journal of Chemical & Engineering Data</i> , 2001 , 46, 1222-1224	2.8	3
46	Synthesis of Weakly Entangled Ultra-High-Molecular-Weight Polyethylene with a Fine Particle Size. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 3354-3362	3.9	3
45	The Intermittent Dormancy of Ethylene Polymerization with the Assistance of Nitrogen Microbubbles. <i>Macromolecules</i> , 2021 , 54, 9418-9426	5.5	3
44	Simultaneous optimization of hydrogen network with desulfurization processes embedded. <i>Computer Aided Chemical Engineering</i> , 2012 , 31, 215-219	0.6	3
43	The chain microstructure and condensed structure of polyethylene resin used for Biaxially stretched film. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 49652	2.9	3
42	A volatile spray zone model and experimentation in a gas-solid fluidized bed with liquid injection. <i>Chemical Engineering Science</i> , 2021 , 231, 116306	4.4	3
41	Efficient Strategy for the Synthesis of Work and Heat Exchange Networks. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 1756-1773	3.9	3
40	A 3D-printed continuous flow platform for the synthesis of methylaluminoxane. <i>Green Chemistry</i> , 2021 , 23, 4087-4094	10	3
39	Critical comparison of electrostatic effects on hydrodynamics and heat transfer in a bubbling fluidized bed with a central jet. <i>Chemical Engineering Science</i> , 2018 , 191, 156-168	4.4	3
38	Stable operating range and solids residence time of fine fluorite particles in the two-stage fluidized bed. <i>Chemical Engineering and Processing: Process Intensification</i> , 2019 , 142, 107558	3.7	2
37	Electrostatic effects on hydrodynamics in the riser of the circulating fluidized bed for polypropylene. <i>AIChE Journal</i> , 2020 , 66, e16916	3.6	2
36	MILP Model for the Nonlinear Problem of Optimal Purifier Placement. <i>Process Integration and Optimization for Sustainability</i> , 2018 , 2, 85-94	2	2
35	Fluidization of Cohesive Fluorite Particles at Ambient/High Temperatures and Enhancement Methods. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 4697-4709	3.9	2
34	Effects of aluminoxane cocatalysts on bis(imino)pyridine iron-catalyzed ethylene oligomerization. <i>Canadian Journal of Chemical Engineering</i> , 2019 , 97, 903-910	2.3	2

33	Hybrid titanium catalyst supported on core-shell silica/poly(styrene-co-acrylic acid) carrier. <i>Journal of Applied Polymer Science</i> , 2010 , 118, n/a-n/a	2.9	2
32	Acidity Modification of ZSM-5 for Methane Conversion in Co-feeding Method with MTA Reaction. <i>Chemical Research in Chinese Universities</i> , ¹	2.2	2
31	Globally optimal design of refinery hydrogen networks with pressure discretization. <i>Chemical Engineering Science</i> , 2022 , 247, 117021	4.4	2
30	Simultaneous design of heat integrated water allocation networks considering all possible splitters and mixers. <i>Energy</i> , 2022 , 238, 121916	7.9	2
29	Efficient Synthesis of Low-Polydispersity UHMWPE by Elevating Active Sites on Anchored POSS Molecules. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 19964-19971	3.9	1
28	Numerical Study of the Scaling Rules for Riser with Consideration of Cluster Effect. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 9533-9543	3.9	1
27	Investigation of the extraction process in gel-spinning technology for ultrahigh-molecular-weight polyethylene fibers by low-field nuclear magnetic resonance. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	1
26	Modeling and Control of COVID-19 Transmission from a Perspective of Polymerization Reaction Dynamics. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 17650-17662	3.9	1
25	Evolution and Interaction Characteristics of Liquid Flow and Bubbles in a Jet Bubbling Column. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 21217-21230	3.9	1
24	Effect of the Scale-Up Process on the Reactor Performance within the Riser: Simulation Using Ozone Decomposition. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 11479-11489	3.9	1
23	Effects of Methylaluminoxane Modifications on Tuning the Bis(Imino)Pyridyl Iron-Catalyzed Oligomerization of Ethylene. <i>Polymer Engineering and Science</i> , 2019 , 59, 1010-1016	2.3	1
22	Hydrodynamics and heat transfer in a fluidized bed with liquid spray: Particle color-change based measurement and modelling. <i>Chemical Engineering Science</i> , 2021 , 229, 116088	4.4	1
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