

Qiang Shi

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.

69

papers

705

citations

16

h-index

22

g-index

76

ext. papers

930

ext. citations

5

avg, IF

4.34

L-index

#	Paper	IF	Citations
69	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
68	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
67	Experimental investigation of electrostatic effect on bubble behaviors in gas-solid fluidized bed. <i>AICHE Journal</i> , 2015 , 61, 1160-1171	3.6	31
66	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
65	Molecular reconstruction: Recent progress toward composition modeling of petroleum fractions. <i>Chemical Engineering Journal</i> , 2019 , 357, 761-775	14.7	30
64	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
63	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
62	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
61	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
60	Experimental investigation of electrostatic effect on particle motions in gas-solid fluidized beds. <i>AICHE Journal</i> , 2015 , 61, 3628-3638	3.6	24
59	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
58	Bubble breakup in a swirl-venturi microbubble generator. <i>Chemical Engineering Journal</i> , 2021 , 403, 126397	17.7	19
57	Novel graphical tool for the design of the heat integrated water allocation networks. <i>AICHE Journal</i> , 2016 , 62, 670-686	3.6	18
56	Entanglement Formation Mechanism in the POSS Modified Heterogeneous Ziegler-Natta Catalysts. <i>Macromolecules</i> , 2019 , 52, 7593-7602	5.5	18
55	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
54	Characterization of the bubble swarm trajectory in a jet bubbling reactor. <i>AICHE Journal</i> , 2019 , 65, e16565	9.6	17
53	Simultaneous Design of Hydrogen Allocation Networks and PSA Inside Refineries. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 4712-4720	3.9	16

52	New transshipment type MINLP model for heat exchanger network synthesis. <i>Chemical Engineering Science</i> , 2017 , 173, 537-559	4.4	16
51	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
50	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
49	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
48	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
47	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
46	Hydrodynamics in a jet bubbling reactor: Experimental research and mathematical modeling. <i>AIChE Journal</i> , 2018 , 64, 1814-1827	3.6	11
45	Bubble Size Distribution and Rise Velocity in a Jet Bubbling Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 19271-19279	3.9	10
44	Energy configuration and operation optimization of refinery fuel gas networks. <i>Applied Energy</i> , 2015 , 139, 365-375	10.7	10
43	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
42	Optimal process design for recovering effluent gas at subambient temperature. <i>Journal of Cleaner Production</i> , 2017 , 144, 130-141	10.3	9
41	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
40	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
39	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
38	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
37	Classification and identification of gas-liquid dispersion states in a jet bubbling reactor. <i>AIChE Journal</i> , 2020 , 66, e16778	3.6	8
36	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
35	Targeting and Design of Work and Heat Exchange Networks. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 12471-12486	3.9	7

34	Optimal design of hybrid cryogenic flash and membrane system. <i>Chemical Engineering Science</i> , 2018 , 179, 13-31	4.4	7
33	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
32	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
31	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
30	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
29	Experimental characterization of liquid film behavior during droplets-polyethylene particle collision. <i>AIChE Journal</i> , 2020 , 66, e16909	3.6	4
28	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
27	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
26	Strategy of effluent recovery technology selection in polyolefin plants. <i>Chemical Engineering Research and Design</i> , 2016 , 103, 405-412	5.5	4
25	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
24	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
23	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
22	Indirect Heat Integration across Plants: Novel Representation of Intermediate Fluid Circles. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 7233-7246	3.9	3
21	Simultaneous Optimization for Organic Rankine Cycle Design and Heat Integration. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 20455-20471	3.9	3
20	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
19	The Intermittent Dormancy of Ethylene Polymerization with the Assistance of Nitrogen Microbubbles. <i>Macromolecules</i> , 2021 , 54, 9418-9426	5.5	3
18	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
17	Efficient Strategy for the Synthesis of Work and Heat Exchange Networks. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 1756-1773	3.9	3

16	A 3D-printed continuous flow platform for the synthesis of methylaluminumoxane. <i>Green Chemistry</i> , 2021 , 23, 4087-4094	10	3
15	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
14	Electrostatic effects on hydrodynamics in the riser of the circulating fluidized bed for polypropylene. <i>AIChE Journal</i> , 2020 , 66, e16916	3.6	2
13	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
12	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
11	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
10	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
9	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
8	The screened waveguide for intrusive acoustic emission detection and its application in circulating fluidized bed. <i>AIChE Journal</i> , 2021 , 67, e17118	3.6	1
7	Enhanced Reaction Performances for Light Olefin Production from Butene through Cofeeding Reaction with Methanol. <i>Energy & Fuels</i> , 2018 , 32, 787-795	4.1	1
6	Kinetic Perspective on Methanol to Propylene Process via HZSM-5 Catalyst: Balancing between Reaction and Diffusion. <i>Industrial & Engineering Chemistry Research</i> , 2022 , 61, 2055-2067	3.9	0
5	Optimal Design of a Subambient Membrane Separation System with Work and Heat Integration for CO ₂ Capture. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 15194-15207	3.9	0
4	Evolution and fluidization behaviors of wet agglomerates based on formation-fragmentation competition mechanism. <i>Chemical Engineering Science</i> , 2021 , 247, 116933	4.4	0
3	Structural Design and Performance of a Jet-Impinging Type Microbubble Generator. <i>Industrial & Engineering Chemistry Research</i> , 2022 , 61, 4445-4459	3.9	0
2	Dispersion Trajectory and Dynamics of Particles Injected from the Sidewall in the Gas-Solid Fluidized Bed. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 18705-18716	3.9	
1	Pore plugging effects on the performance of ZSM-5 catalyst in MTP reaction using a discrete model. <i>Chinese Journal of Chemical Engineering</i> , 2021 , 32, 253-263	3.2	