

Yi Cheng

List of Publications by Year in descending order

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153
papers

4,421
citations

94381

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all docs

169
docs citations

169
times ranked

3818
citing authors

#	ARTICLE	IF	CITATIONS
1	Total methanation of syngas to synthetic natural gas over Ni catalyst in a micro-channel reactor. <i>Fuel</i> , 2012, 95, 599-605.	3.4	143
2	Investigation of Dry Reforming of Methane in a Dielectric Barrier Discharge Reactor. <i>Plasma Chemistry and Plasma Processing</i> , 2009, 29, 217-228.	1.1	132
3	Downer reactor: From fundamental study to industrial application. <i>Powder Technology</i> , 2008, 183, 364-384.	2.1	112
4	Bimetallic Ni-Fe total-methanation catalyst for the production of substitute natural gas under high pressure. <i>Fuel</i> , 2013, 104, 224-229.	3.4	111
5	Dry Reforming of Methane in a Dielectric Barrier Discharge Reactor with Ni/Al ₂ O ₃ Catalyst: Interaction of Catalyst and Plasma. <i>Energy & Fuels</i> , 2009, 23, 4196-4201.	2.5	110
6	Profiles of particle velocity and solids fraction in a high-density riser. <i>Powder Technology</i> , 1998, 100, 183-189.	2.1	103
7	CFD-DEM simulation of gas-solid reacting flows in fluid catalytic cracking (FCC) process. <i>Chemical Engineering Science</i> , 2010, 65, 542-549.	1.9	101
8	Catalytic performance of Ni catalysts for steam reforming of methane at high space velocity. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 482-489.	3.8	93
9	Human serum albumin (HSA) nanoparticles stabilized with intermolecular disulfide bonds. <i>Chemical Communications</i> , 2013, 49, 2234.	2.2	89
10	Dry reforming of methane in an atmospheric pressure plasma fluidized bed with Ni/Al ₂ O ₃ catalyst. <i>Catalysis Today</i> , 2009, 148, 275-282.	2.2	87
11	Modeling the hydrodynamics of downer reactors based on kinetic theory. <i>Chemical Engineering Science</i> , 1999, 54, 2019-2027.	1.9	86
12	CFD simulation with detailed chemistry of steam reforming of methane for hydrogen production in an integrated micro-reactor. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 5383-5392.	3.8	84
13	Oxidation of emerging biocides and antibiotics in wastewater by ozonation and the electro-peroxone process. <i>Chemosphere</i> , 2019, 235, 575-585.	4.2	72
14	Numerical simulation of hydrodynamics in downers using a CFD-DEM coupled approach. <i>Powder Technology</i> , 2010, 199, 2-12.	2.1	69
15	CFD Modelling and Simulation of Hydrodynamics in Liquid-Solid Circulating Fluidized Beds. <i>Canadian Journal of Chemical Engineering</i> , 2005, 83, 177-185.	0.9	67
16	Steam reforming of methane over Ni catalyst in micro-channel reactor. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 7105-7113.	3.8	67
17	Droplet formation in a microfluidic T-junction involving highly viscous fluid systems. <i>Chemical Engineering Science</i> , 2016, 145, 141-148.	1.9	66
18	Visualization of micro-scale mixing in miscible liquids using 1/4-LIF technique and drug nano-particle preparation in T-shaped micro-channels. <i>Chemical Engineering Journal</i> , 2012, 192, 252-261.	6.6	61

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19	Experimental study of mass transfer in water/ionic liquid microdroplet systems using micro-LIF technique. <i>Chemical Engineering Journal</i> , 2016, 298, 281-290.	6.6	60
20	Steam enhanced carbon dioxide reforming of methane in DBD plasma reactor. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 8301-8306.	3.8	58
21	Eulerian-Lagrangian simulation of distinct clustering phenomena and RTDs in riser and downer. <i>Particology</i> , 2010, 8, 44-50.	2.0	57
22	Experimental investigation on coal devolatilization at high temperatures with different heating rates. <i>Fuel</i> , 2014, 117, 1215-1222.	3.4	57
23	Numerical study of double emulsion formation in microchannels by a ternary Lattice Boltzmann method. <i>Chemical Engineering Science</i> , 2016, 146, 126-134.	1.9	57
24	LBM simulation of droplet formation in micro-channels. <i>Chemical Engineering Journal</i> , 2011, 173, 828-836.	6.6	56
25	Controlled production of double emulsions in dual-coaxial capillaries device for millimeter-scale hollow polymer spheres. <i>Chemical Engineering Science</i> , 2013, 104, 55-63.	1.9	53
26	Structure Evolution of Curcumin Nanoprecipitation from a Micromixer. <i>Crystal Growth and Design</i> , 2010, 10, 1021-1024.	1.4	51
27	Preparation of few-layer graphene nanosheets by radio-frequency induction thermal plasma. <i>Carbon</i> , 2015, 86, 38-45.	5.4	49
28	Performance of phase-pure M1 MoVNbTeO catalysts by hydrothermal synthesis with different post-treatments for the oxidative dehydrogenation of ethane. <i>Applied Catalysis A: General</i> , 2015, 498, 99-106.	2.2	49
29	Simulation of liquid mixing inside micro-droplets by a lattice Boltzmann method. <i>Chemical Engineering Science</i> , 2015, 131, 118-128.	1.9	47
30	CFD simulation of hydrodynamics in the entrance region of a downer. <i>Chemical Engineering Science</i> , 2001, 56, 1687-1696.	1.9	46
31	A novel X-ray computed tomography method for fast measurement of multiphase flow. <i>Chemical Engineering Science</i> , 2007, 62, 4325-4335.	1.9	44
32	Axial and lateral dispersion of fine particles in a binary-solid riser. <i>Canadian Journal of Chemical Engineering</i> , 1998, 76, 19-26.	0.9	42
33	Hydrodynamics and scale-up of liquid-solid circulating fluidized beds: Similitude method vs. CFD. <i>Chemical Engineering Science</i> , 2008, 63, 3201-3211.	1.9	42
34	Dry Reforming of Methane with Carbon Dioxide Using Pulsed DC Arc Plasma at Atmospheric Pressure. <i>Plasma Chemistry and Plasma Processing</i> , 2010, 30, 257-266.	1.1	40
35	Experimental study on coal pyrolysis to acetylene in thermal plasma reactors. <i>Chemical Engineering Journal</i> , 2012, 207-208, 109-116.	6.6	40
36	Simulation of Solid Suspension in a Stirred Tank Using CFD-DEM Coupled Approach. <i>Chinese Journal of Chemical Engineering</i> , 2013, 21, 1069-1081.	1.7	40

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37	A self-redox pure-phase M1 MoVNbTeO /CeO ₂ nanocomposite as a highly active catalyst for oxidative dehydrogenation of ethane. <i>Journal of Catalysis</i> , 2015, 329, 471-478.	3.1	40
38	CFD-DEM modeling of rod-like particles in a fluidized bed with complex geometry. <i>Powder Technology</i> , 2019, 344, 673-683.	2.1	40
39	Catalytic performance of Ni catalyst for steam methane reforming in a micro-channel reactor at high pressure. <i>Chemical Engineering and Processing: Process Intensification</i> , 2017, 118, 19-25.	1.8	38
40	Numerical analysis on steam methane reforming in a plate microchannel reactor: Effect of washcoat properties. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 18921-18941.	3.8	36
41	Paclitaxel loaded human serum albumin nanoparticles stabilized with intermolecular disulfide bonds. <i>MedChemComm</i> , 2014, 5, 1658-1663.	3.5	35
42	Thermodynamic analysis of coal pyrolysis to acetylene in hydrogen plasma reactor. <i>Fuel Processing Technology</i> , 2010, 91, 823-830.	3.7	34
43	Phase-pure M1 MoVNbTeO _x catalysts with tunable particle size for oxidative dehydrogenation of ethane. <i>Applied Catalysis A: General</i> , 2016, 524, 56-65.	2.2	34
44	Lattice-Boltzmann method for the simulation of multiphase mass transfer and reaction of dilute species. <i>Physical Review E</i> , 2014, 89, 053308.	0.8	33
45	Oxidative dehydrogenation of ethane to ethylene over phase-pure M1 MoVNbTeO _x catalysts in a micro-channel reactor. <i>Catalysis Science and Technology</i> , 2015, 5, 2807-2813.	2.1	33
46	Heat Transfer Inside Particles and Devolatilization for Coal Pyrolysis to Acetylene at Ultrahigh Temperatures. <i>Energy & Fuels</i> , 2010, 24, 2991-2998.	2.5	32
47	Integrating micromixer precipitation and electrospray drying toward continuous production of drug nanoparticles. <i>Chemical Engineering Journal</i> , 2011, 168, 931-937.	6.6	32
48	Continuous preparation of itraconazole nanoparticles using droplet-based microreactor. <i>Chemical Engineering Journal</i> , 2020, 393, 124721.	6.6	31
49	Mixing intensification by chaotic advection inside droplets for controlled nanoparticle preparation. <i>Microfluidics and Nanofluidics</i> , 2010, 9, 773-786.	1.0	30
50	Generalized model of heat transfer and volatiles evolution inside particles for coal devolatilization. <i>AIChE Journal</i> , 2014, 60, 2893-2906.	1.8	30
51	Three-dimensional simulation of mixing performance inside droplets in micro-channels by Lattice Boltzmann method. <i>Chemical Engineering Journal</i> , 2012, 207-208, 267-277.	6.6	29
52	Theoretical analysis and simulation of obstructed breakup of micro-droplet in T-junction under an asymmetric pressure difference. <i>Physics of Fluids</i> , 2017, 29, .	1.6	29
53	Enhancement of mixing inside ionic liquid droplets through various micro-channels design. <i>Chemical Engineering Journal</i> , 2018, 332, 537-547.	6.6	29
54	Catalytic performance of phase-pure M1 MoVNbTeO _x /CeO ₂ composite for oxidative dehydrogenation of ethane. <i>Journal of Catalysis</i> , 2018, 365, 238-248.	3.1	29

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55	Study on the reactive mixing process in an unbaffled stirred tank using planar laser-induced fluorescence (PLIF) technique. <i>Chemical Engineering Science</i> , 2010, 65, 4511-4518.	1.9	27
56	Analysis of particle heating and devolatilization during rapid coal pyrolysis in a thermal plasma reactor. <i>Fuel Processing Technology</i> , 2012, 100, 1-10.	3.7	27
57	Simulation of reactive mixing behaviors inside micro-droplets by a lattice Boltzmann method. <i>Chemical Engineering Science</i> , 2018, 181, 79-89.	1.9	27
58	Inlet effect on the coal pyrolysis to acetylene in a hydrogen plasma downer reactor. <i>Canadian Journal of Chemical Engineering</i> , 2008, 86, 413-420.	0.9	26
59	Understanding coal/hydrocarbons pyrolysis in thermal plasma reactors by thermodynamic analysis. <i>Chemical Engineering Science</i> , 2012, 84, 31-39.	1.9	25
60	Visualization of reactive and non-reactive mixing processes in a stirred tank using planar laser induced fluorescence (PLIF) technique. <i>Chemical Engineering Research and Design</i> , 2012, 90, 524-533.	2.7	25
61	Cross-scale Modeling and Simulation of Coal Pyrolysis to Acetylene in Hydrogen Plasma Reactors. <i>AIChE Journal</i> , 2013, 59, 2119-2133.	1.8	25
62	Experimental Comparison of Methane Pyrolysis in Thermal Plasma. <i>Plasma Chemistry and Plasma Processing</i> , 2017, 37, 1033-1049.	1.1	25
63	Study on the Mixing Behavior of Thin Liquid-Sheet Impinging Jets Using the PLIF Technique. <i>Industrial & Engineering Chemistry Research</i> , 2006, 45, 863-870.	1.8	24
64	On impacts of solid properties and operating conditions on the performance of gas-solid fluidization systems. <i>Powder Technology</i> , 2007, 172, 167-176.	2.1	24
65	Understanding Riser and Downer Based Fluid Catalytic Cracking Processes by a Comprehensive Two-Dimensional Reactor Model. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 12-26.	1.8	23
66	A comparative study of Rh and Ni coated microchannel reactor for steam methane reforming using CFD with detailed chemistry. <i>Chemical Engineering Science</i> , 2015, 137, 276-286.	1.9	23
67	Experimental study of reactive mixing in a mini-scale mixer by laser-induced fluorescence technique. <i>Chemical Engineering Journal</i> , 2009, 150, 536-543.	6.6	22
68	Fast liquid mixing by cross-flow impingement in millimeter channels. <i>Chemical Engineering Science</i> , 2007, 62, 6178-6190.	1.9	21
69	CFD simulation of hydrodynamics of gas-solid multiphase flow in downer reactors: revisited. <i>Chemical Engineering Science</i> , 2011, 66, 5357-5365.	1.9	21
70	Experimental and numerical study of mixing behavior inside droplets in microchannels. <i>AIChE Journal</i> , 2013, 59, 1801-1813.	1.8	21
71	Preparation of itraconazole nanoparticles by anti-solvent precipitation method using a cascaded microfluidic device and an ultrasonic spray drier. <i>Chemical Engineering Journal</i> , 2018, 334, 2264-2272.	6.6	21
72	Modeling the solidification of O/W-emulsion droplet in solvent evaporation technique. <i>Chemical Engineering Research and Design</i> , 2017, 122, 233-242.	2.7	20

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73	Catalyst Deactivation of Rh-Coated Foam Monolith for Catalytic Partial Oxidation of Methane. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 2878-2885.	1.8	19
74	Mixing performance and drug nano-particle preparation inside slugs in a gas-liquid microchannel reactor. <i>Chemical Engineering Science</i> , 2013, 100, 456-463.	1.9	19
75	Numerical analysis of methane pyrolysis in thermal plasma for selective synthesis of acetylene. <i>Fuel Processing Technology</i> , 2018, 172, 195-199.	3.7	19
76	Plasma-Assisted Synthesis of Chlorinated Polyvinyl Chloride (CPVC) Using a Gas-Solid Contacting Process. <i>Plasma Processes and Polymers</i> , 2011, 8, 94-99.	1.6	18
77	Three-dimensional lattice Boltzmann simulation of Janus droplet formation in Y-shaped co-flowing microchannel. <i>Chemical Engineering Science</i> , 2020, 225, 115819.	1.9	18
78	Process Development and Reactor Analysis of Coal Pyrolysis to Acetylene in Hydrogen Plasma Reactor. <i>Journal of Chemical Engineering of Japan</i> , 2009, 42, S103-S110.	0.3	17
79	Analysis of catalytic partial oxidation of methane on rhodium-coated foam monolith using CFD with detailed chemistry. <i>Chemical Engineering Science</i> , 2010, 65, 1989-1999.	1.9	17
80	Intensification of viscous fluid mixing in eccentric stirred tank systems. <i>Chemical Engineering and Processing: Process Intensification</i> , 2013, 66, 36-43.	1.8	17
81	Assessing the performance of an industrial SBCR for Fischer-Tropsch synthesis: Experimental and modeling. <i>AIChE Journal</i> , 2015, 61, 3838-3857.	1.8	17
82	Experimental Study on Coal Tar Pyrolysis in Thermal Plasma. <i>Plasma Chemistry and Plasma Processing</i> , 2015, 35, 401-413.	1.1	17
83	Chemical engineering in China: Past, present and future. <i>AIChE Journal</i> , 2011, 57, 552-560.	1.8	16
84	Numerical study of mixing behavior with chemical reactions in micro-channels by a lattice Boltzmann method. <i>Chemical Engineering Science</i> , 2012, 84, 148-154.	1.9	16
85	Droplet in droplet: LBM simulation of modulated liquid mixing. <i>Chemical Engineering Science</i> , 2016, 155, 428-437.	1.9	16
86	Modeling mass transfer and reaction of dilute solutes in a ternary phase system by the lattice Boltzmann method. <i>Physical Review E</i> , 2017, 95, 043304.	0.8	16
87	Suzuki-Miyura cross-coupling reaction in droplet-based microreactor. <i>Chemical Engineering Science</i> , 2019, 207, 352-357.	1.9	16
88	Numerical simulation of liquid mixing inside soft droplets with periodic deformation by a lattice Boltzmann method. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 98, 37-44.	2.7	16
89	Millisecond mixing of two liquid streams in a mixer model. <i>Chemical Engineering Science</i> , 2007, 62, 5688-5695.	1.9	15
90	Study on the FCC Process of a Novel Riser-Downer Coupling Reactor (III): Industrial Trial and CFD Modeling. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 8582-8587.	1.8	15

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91	Experimental Study of Liquid Hydrocarbons Pyrolysis to Acetylene in H ₂ /Ar Plasma. Plasma Chemistry and Plasma Processing, 2012, 32, 1203-1214.	1.1	15
92	Plasma-assisted synthesis of chlorinated polyvinyl chloride (CPVC) characterized by online UV-Vis analysis. Chemical Engineering Journal, 2012, 207-208, 923-930.	6.6	15
93	Optical emission spectroscopy diagnostic and thermodynamic analysis of thermal plasma enhanced nanocrystalline silicon CVD process. RSC Advances, 2014, 4, 15131-15137.	1.7	15
94	High rate fabrication of room temperature red photoluminescent SiC nanocrystals. Journal of Materials Chemistry C, 2015, 3, 4876-4882.	2.7	15
95	Valence variation of phase-pure M1 MoVNbTe oxide by plasma treatment for improved catalytic performance in oxidative dehydrogenation of ethane. RSC Advances, 2015, 5, 91295-91301.	1.7	15
96	Numerical study of Si nanoparticle formation by SiCl ₄ hydrogenation in RF plasma. Plasma Sources Science and Technology, 2016, 25, 025011.	1.3	15
97	Hybrid modeling of integrated microchannel methane reformer for miniaturized GTL application using an effectiveness factor submodel based on complex surface chemistry. Chemical Engineering Journal, 2017, 316, 715-726.	6.6	15
98	MnO promoted phase-pure M1 MoVNbTe oxide for ethane oxidative dehydrogenation. Journal of the Taiwan Institute of Chemical Engineers, 2019, 95, 103-111.	2.7	15
99	Numerical study of Janus droplet formation in microchannels by a lattice Boltzmann method. Chemical Engineering and Processing: Process Intensification, 2017, 119, 34-43.	1.8	14
100	Experimental study and modeling of UV-enhanced PVC chlorination to CPVC using a gas-solid process. AIChE Journal, 2014, 60, 2235-2243.	1.8	13
101	Visualization of coupled mass transfer and reaction in a gas-liquid dielectric barrier discharge reactor. Chemical Engineering Journal, 2014, 245, 47-55.	6.6	13
102	Particle-scale modeling of coal devolatilization behaviors for coal pyrolysis in thermal plasma reactors. AIChE Journal, 2015, 61, 913-921.	1.8	13
103	Industrially potential MoVNbTeOx@FoamSiC structured catalyst for oxidative dehydrogenation of ethane. Chemical Engineering Journal, 2022, 427, 131813.	6.6	13
104	Modeling the hydrodynamics in a coupled high-density downer-to-riser reactor. Powder Technology, 2008, 181, 255-265.	2.1	12
105	High rate deposition of nanocrystalline silicon by thermal plasma enhanced CVD. RSC Advances, 2013, 3, 20157.	1.7	12
106	Detailed kinetic modeling of acetylene decomposition/soot formation during quenching of coal pyrolysis in thermal plasma. Energy, 2017, 121, 10-20.	4.5	12
107	Ionic liquid-based suzuki coupling reaction: From batch to continuous microflow system. Journal of Flow Chemistry, 2017, 7, 52-56.	1.2	11
108	Numerical evaluation of a microchannel methane reformer used for miniaturized GTL: Operating characteristics and greenhouse gases emission. Fuel Processing Technology, 2017, 167, 78-91.	3.7	11

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109	Characteristics and applications of plasma assisted chemical processes and reactors. <i>Current Opinion in Chemical Engineering</i> , 2017, 17, 68-77.	3.8	11
110	Formation of magnetic ionic liquid-water Janus droplet in assembled 3D-printed microchannel. <i>Chemical Engineering Journal</i> , 2021, 406, 126098.	6.6	11
111	MoVNbTeO _x M1@CeO ₂ @Cordierite structured catalysts for ODHE process. <i>Chemical Engineering Science</i> , 2022, 253, 117597.	1.9	11
112	Fast Liquid Jet Mixing in Millimeter Channels with Various Multislits Designs. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 9744-9753.	1.8	10
113	Measurement of Axisymmetric Two-Phase Flows by an Improved X-ray-Computed Tomography Technique. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 2063-2074.	1.8	10
114	Synthesis of nanostructured MgO powders with photoluminescence by plasma-intensified pyrohydrolysis process of bischofite from brine. <i>Green Processing and Synthesis</i> , 2014, 3, .	1.3	10
115	Phase-pure M1 MoVNbTeO _x /TiO ₂ nanocomposite catalysts: high catalytic performance for oxidative dehydrogenation of ethane. <i>Catalysis Science and Technology</i> , 2022, 12, 1211-1219.	2.1	10
116	Modeling and simulation of chemically reacting flows in gas-solid catalytic and non-catalytic processes. <i>Particuology</i> , 2010, 8, 525-530.	2.0	9
117	China goes green: cleaner production of chemicals. <i>Green Processing and Synthesis</i> , 2012, 1, .	1.3	9
118	Visualization of coupled mass transfer and reaction between gas and a droplet using a novel reactive-PLIF technique. <i>Chemical Engineering Journal</i> , 2012, 200-202, 549-558.	6.6	9
119	UV enhanced gas-solid synthesis of chlorinated poly vinyl chloride characterized by a UV-Vis online analysis method. <i>Chinese Journal of Chemical Engineering</i> , 2015, 23, 1052-1059.	1.7	9
120	UV-Enhanced Gas-Solid Chlorination of Polyvinyl Chloride for Cleaner Production of Chlorinated Polyvinyl Chloride. <i>Chemical Engineering and Technology</i> , 2016, 39, 834-840.	0.9	9
121	Experimental and CFD analysis of two-phase cross/countercurrent flow in the packed column with a novel internal. <i>Chemical Engineering Science</i> , 2005, 60, 6210-6216.	1.9	8
122	The measurement of gas diffusivity in porous materials by temporal analysis of products (TAP). <i>Catalysis Today</i> , 2007, 121, 246-254.	2.2	8
123	Millisecond mixing of liquids using a novel jet nozzle. <i>Chemical Engineering Science</i> , 2009, 64, 812-820.	1.9	8
124	Detailed kinetic modeling of chemical quenching processes of acetylene-rich gas at high temperature. <i>Chemical Engineering Journal</i> , 2017, 315, 324-334.	6.6	8
125	Managing temperature uniformity of thermally integrated micro reformers with different axial dimensions: A detailed numerical study. <i>Chemical Engineering and Processing: Process Intensification</i> , 2018, 132, 218-228.	1.8	8
126	Improved catalytic performance of Ni catalysts for steam methane reforming in a micro-channel reactor. <i>Journal of Energy Chemistry</i> , 2014, 23, 593-600.	7.1	7

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127	Gas-liquid dielectric barrier discharge falling film reactor for the decoloration of dyeing water. <i>Journal of Chemical Technology and Biotechnology</i> , 2016, 91, 431-438.	1.6	7
128	Modeling pyrolysis of asphalt using Chemical Percolation Devolatilization theory. <i>Fuel</i> , 2017, 206, 364-370.	3.4	7
129	Strategy for multiscale numbering-up of microstructured catalytic reactors: A numerical study based on the resistance network model. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 98, 70-77.	2.7	7
130	Experimental study of laser pyrolysis of coal and residual oil. <i>Fuel</i> , 2021, 283, 119290.	3.4	7
131	Plasma treated M1 MoVNbTeO \AA CeO ₂ composite catalyst for improved performance of oxidative dehydrogenation of ethane. <i>Green Energy and Environment</i> , 2023, 8, 904-914.	4.7	7
132	Experimental Study and Modeling Analysis of Catalytic Partial Oxidation of Methane with Addition of CO ₂ and H ₂ O Using a Rh-Coated Foam Monolith Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 856-865.	1.8	6
133	Visualization of In Situ Oxidation Process Between Plasma and Liquid Phase in Two Dielectric Barrier Discharge Plasma Reactors Using Planar Laser Induced Fluorescence Technique. <i>Plasma Chemistry and Plasma Processing</i> , 2012, 32, 1127-1137.	1.1	6
134	Theoretical investigation on correlation between steric effects and selectivity in gas-solid chlorination of polyvinyl chloride. <i>Chemical Engineering Science</i> , 2016, 151, 64-78.	1.9	6
135	Optimization of the Electro-Peroxone Process for Micropollutant Abatement Using Chemical Kinetic Approaches. <i>Molecules</i> , 2019, 24, 2638.	1.7	6
136	Kinetic analysis of catalytic slurry oil pyrolysis using thermogravimetric analysis. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 142, 1469-1475.	2.0	6
137	Mixed Metal Oxides of M1 MoVNbTeO _x and TiO ₂ as Composite Catalyst for Oxidative Dehydrogenation of Ethane. <i>Catalysts</i> , 2022, 12, 71.	1.6	6
138	SiC nanocrystals: high-rate deposition and nano-scale control by thermal plasma. <i>RSC Advances</i> , 2014, 4, 49228-49235.	1.7	5
139	Particle-scale simulation of fluidized bed with immersed tubes. <i>Frontiers of Chemical Engineering in China</i> , 2008, 2, 341-345.	0.6	4
140	Plasma-Assisted Synthesis of Chlorinated Polyvinyl Chloride (CPVC) Using a Plasma Circulating Fluidized Bed Reactor (PCFBR). <i>Plasma Processes and Polymers</i> , 2016, 13, 387-396.	1.6	4
141	AlPO ₄ -free MoP β -Al ₂ O ₃ catalyst for methanation under low H ₂ /CO. <i>Applied Surface Science</i> , 2020, 526, 146461.	3.1	4
142	Ternary fluid lattice Boltzmann simulation of dynamic interfacial tension induced by mixing inside microdroplets. <i>AIChE Journal</i> , 2022, 68, e17519.	1.8	4
143	Determination of a catalyst powder's active site concentration with a pulse reactor in Knudsen flow. <i>Chemical Engineering Science</i> , 2007, 62, 5317-5321.	1.9	3
144	Numerical simulation of two-dimensional spouted bed with draft plates by discrete element method. <i>Frontiers of Chemical Engineering in China</i> , 2008, 2, 5-9.	0.6	3

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145	Particle-scale modeling of asphaltene pyrolysis in thermal plasma. <i>Fuel</i> , 2016, 175, 294-301.	3.4	3
146	Thermodynamic analysis of steam gasification of municipal solid waste. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2018, 40, 623-629.	1.2	3
147	Experimental Study on Thermal and UV-enhanced Gas-Solid Chlorination of High-Density Polyethylene. <i>International Journal of Chemical Reactor Engineering</i> , 2018, 16, .	0.6	3
148	Preparation of smectic itraconazole nanoparticles with tunable periodic order using microfluidics-based anti-solvent precipitation. <i>CrystEngComm</i> , 2019, 21, 2362-2372.	1.3	3
149	A recyclable heterogeneous-homogeneous-heterogeneous NiO/AlOOH catalysis system for hydrocarboxylation of acetylene to acrylic acid. <i>RSC Advances</i> , 2020, 10, 1634-1638.	1.7	3
150	CPFD simulation on particle behaviour in an entrained-flow gasifier. <i>Clean Energy</i> , 2020, 4, 75-84.	1.5	3
151	Kinetic modeling of deoiled asphaltene particle pyrolysis in thermogravimetric analysis. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016, 124, 1661-1670.	2.0	2
152	Effect of reduction and carburization pretreatment on iron catalyst for synthesis of light olefins from CO hydrogenation. <i>Chemical Research in Chinese Universities</i> , 2017, 33, 672-677.	1.3	2
153	Numerical study of methane to acetylene process in novel thermal plasma array reactor. <i>Chemical Engineering Journal Advances</i> , 2022, 11, 100309.	2.4	1