

Yi Cheng

List of Publications by Year in descending order

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153
papers

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94381

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169
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3818
citing authors

#	ARTICLE	IF	CITATIONS
1	Plasma treated M1 MoVNbTeO _x @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
2	Industrially potential MoVNbTeO _x @FoamSiC structured catalyst for oxidative dehydrogenation of ethane. <i>Chemical Engineering Journal</i> , 2022, 427, 131813.	6.6	13
3	Ternary fluid lattice Boltzmann simulation of dynamic interfacial tension induced by mixing inside microdroplets. <i>AIChE Journal</i> , 2022, 68, e17519.	1.8	4
4	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
5	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
6	MoVNbTeO _x M1@CeO ₂ @Cordierite structured catalysts for ODHE process. <i>Chemical Engineering Science</i> , 2022, 253, 117597.	1.9	11
7	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
8	Formation of magnetic ionic liquid-water Janus droplet in assembled 3D-printed microchannel. <i>Chemical Engineering Journal</i> , 2021, 406, 126098.	6.6	11
9	Experimental study of laser pyrolysis of coal and residual oil. <i>Fuel</i> , 2021, 283, 119290.	3.4	7
10	AlPO ₄ -free MoP ₃ -Al ₂ O ₃ catalyst for methanation under low H ₂ /CO. <i>Applied Surface Science</i> , 2020, 526, 146461.	3.1	4
11	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
12	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
13	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
14	Continuous preparation of itraconazole nanoparticles using droplet-based microreactor. <i>Chemical Engineering Journal</i> , 2020, 393, 124721.	6.6	31
15	CPFD simulation on particle behaviour in an entrained-flow gasifier. <i>Clean Energy</i> , 2020, 4, 75-84.	1.5	3
16	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
17	Suzuki-Miyura cross-coupling reaction in droplet-based microreactor. <i>Chemical Engineering Science</i> , 2019, 207, 352-357.	1.9	16
18	Optimization of the Electro-Peroxone Process for Micropollutant Abatement Using Chemical Kinetic Approaches. <i>Molecules</i> , 2019, 24, 2638.	1.7	6

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19	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
20	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
21	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
22	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
23	MnO promoted phase-pure M1 MoVNbTe oxide for ethane oxidative dehydrogenation. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 95, 103-111.	2.7	15
24	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
25	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
26	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
27	Enhancement of mixing inside ionic liquid droplets through various micro-channels design. <i>Chemical Engineering Journal</i> , 2018, 332, 537-547.	6.6	29
28	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
29	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
30	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
31	Catalytic performance of phase-pure M1 MoVNbTeOx/CeO2 composite for oxidative dehydrogenation of ethane. <i>Journal of Catalysis</i> , 2018, 365, 238-248.	3.1	29
32	Detailed kinetic modeling of acetylene decomposition/soot formation during quenching of coal pyrolysis in thermal plasma. <i>Energy</i> , 2017, 121, 10-20.	4.5	12
33	Hybrid modeling of integrated microchannel methane reformer for miniaturized GTL application using an effectiveness factor submodel based on complex surface chemistry. <i>Chemical Engineering Journal</i> , 2017, 316, 715-726.	6.6	15
34	Experimental Comparison of Methane Pyrolysis in Thermal Plasma. <i>Plasma Chemistry and Plasma Processing</i> , 2017, 37, 1033-1049.	1.1	25
35	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
36	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

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37	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
38	Modeling pyrolysis of asphalt using Chemical Percolation Devolatilization theory. <i>Fuel</i> , 2017, 206, 364-370.	3.4	7
39	Numerical study of Janus droplet formation in microchannels by a lattice Boltzmann method. <i>Chemical Engineering and Processing: Process Intensification</i> , 2017, 119, 34-43.	1.8	14
40	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
41	Ionic liquid-based suzuki coupling reaction: From batch to continuous microflow system. <i>Journal of Flow Chemistry</i> , 2017, 7, 52-56.	1.2	11
42	Numerical evaluation of a microchannel methane reformer used for miniaturized GTL: Operating characteristics and greenhouse gases emission. <i>Fuel Processing Technology</i> , 2017, 167, 78-91.	3.7	11
43	Characteristics and applications of plasma assisted chemical processes and reactors. <i>Current Opinion in Chemical Engineering</i> , 2017, 17, 68-77.	3.8	11
44	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
45	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
46	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
47	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
48	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
49	Droplet in droplet: LBM simulation of modulated liquid mixing. <i>Chemical Engineering Science</i> , 2016, 155, 428-437.	1.9	16
50	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
51	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
52	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
53	Phase-pure M ₁ 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
54	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

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55	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
56	Droplet formation in a microfluidic T-junction involving highly viscous fluid systems. <i>Chemical Engineering Science</i> , 2016, 145, 141-148.	1.9	66
57	Numerical study of Si nanoparticle formation by SiCl ₄ hydrogenation in RF plasma. <i>Plasma Sources Science and Technology</i> , 2016, 25, 025011.	1.3	15
58	Particle-scale modeling of asphaltene pyrolysis in thermal plasma. <i>Fuel</i> , 2016, 175, 294-301.	3.4	3
59	Particle-scale modeling of coal devolatilization behaviors for coal pyrolysis in thermal plasma reactors. <i>AIChE Journal</i> , 2015, 61, 913-921.	1.8	13
60	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
61	Experimental Study on Coal Tar Pyrolysis in Thermal Plasma. <i>Plasma Chemistry and Plasma Processing</i> , 2015, 35, 401-413.	1.1	17
62	Preparation of few-layer graphene nanosheets by radio-frequency induction thermal plasma. <i>Carbon</i> , 2015, 86, 38-45.	5.4	49
63	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
64	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
65	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
66	Simulation of liquid mixing inside micro-droplets by a lattice Boltzmann method. <i>Chemical Engineering Science</i> , 2015, 131, 118-128.	1.9	47
67	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
68	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
69	High rate fabrication of room temperature red photoluminescent SiC nanocrystals. <i>Journal of Materials Chemistry C</i> , 2015, 3, 4876-4882.	2.7	15
70	Valence variation of phase-pure M1 MoVNbTe oxide by plasma treatment for improved catalytic performance in oxidative dehydrogenation of ethane. <i>RSC Advances</i> , 2015, 5, 91295-91301.	1.7	15
71	Generalized model of heat transfer and volatiles evolution inside particles for coal devolatilization. <i>AIChE Journal</i> , 2014, 60, 2893-2906.	1.8	30
72	Experimental study and modeling of UV-enhanced PVC chlorination to CPVC using a gas-solid process. <i>AIChE Journal</i> , 2014, 60, 2235-2243.	1.8	13

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73	Visualization of coupled mass transfer and reaction in a gas-liquid dielectric barrier discharge reactor. <i>Chemical Engineering Journal</i> , 2014, 245, 47-55.	6.6	13
74	SiC nanocrystals: high-rate deposition and nano-scale control by thermal plasma. <i>RSC Advances</i> , 2014, 4, 49228-49235.	1.7	5
75	Optical emission spectroscopy diagnostic and thermodynamic analysis of thermal plasma enhanced nanocrystalline silicon CVD process. <i>RSC Advances</i> , 2014, 4, 15131-15137.	1.7	15
76	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
77	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
78	Paclitaxel loaded human serum albumin nanoparticles stabilized with intermolecular disulfide bonds. <i>MedChemComm</i> , 2014, 5, 1658-1663.	3.5	35
79	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
80	Experimental investigation on coal devolatilization at high temperatures with different heating rates. <i>Fuel</i> , 2014, 117, 1215-1222.	3.4	57
81	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
82	Experimental and numerical study of mixing behavior inside droplets in microchannels. <i>AIChE Journal</i> , 2013, 59, 1801-1813.	1.8	21
83	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
84	High rate deposition of nanocrystalline silicon by thermal plasma enhanced CVD. <i>RSC Advances</i> , 2013, 3, 20157.	1.7	12
85	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
86	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
87	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
88	Human serum albumin (HSA) nanoparticles stabilized with intermolecular disulfide bonds. <i>Chemical Communications</i> , 2013, 49, 2234.	2.2	89
89	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
90	China goes green: cleaner production of chemicals. <i>Green Processing and Synthesis</i> , 2012, 1, .	1.3	9

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91	Understanding coal/hydrocarbons pyrolysis in thermal plasma reactors by thermodynamic analysis. <i>Chemical Engineering Science</i> , 2012, 84, 31-39.	1.9	25
92	Experimental Study of Liquid Hydrocarbons Pyrolysis to Acetylene in H ₂ /Ar Plasma. <i>Plasma Chemistry and Plasma Processing</i> , 2012, 32, 1203-1214.	1.1	15
93	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
94	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
95	Experimental study on coal pyrolysis to acetylene in thermal plasma reactors. <i>Chemical Engineering Journal</i> , 2012, 207-208, 109-116.	6.6	40
96	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
97	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
98	Plasma-assisted synthesis of chlorinated polyvinyl chloride (CPVC) characterized by online UV-Vis analysis. <i>Chemical Engineering Journal</i> , 2012, 207-208, 923-930.	6.6	15
99	Visualization of micro-scale mixing in miscible liquids using $\frac{1}{4}$ -LIF technique and drug nano-particle preparation in T-shaped micro-channels. <i>Chemical Engineering Journal</i> , 2012, 192, 252-261.	6.6	61
100	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
101	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
102	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
103	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
104	LBM simulation of droplet formation in micro-channels. <i>Chemical Engineering Journal</i> , 2011, 173, 828-836.	6.6	56
105	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
106	Integrating micromixer precipitation and electrospray drying toward continuous production of drug nanoparticles. <i>Chemical Engineering Journal</i> , 2011, 168, 931-937.	6.6	32
107	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
108	Chemical engineering in China: Past, present and future. <i>AIChE Journal</i> , 2011, 57, 552-560.	1.8	16

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109	Catalytic performance of Ni catalysts for steam reforming of methane at high space velocity. International Journal of Hydrogen Energy, 2011, 36, 482-489.	3.8	93
110	Steam reforming of methane over Ni catalyst in micro-channel reactor. International Journal of Hydrogen Energy, 2011, 36, 7105-7113.	3.8	67
111	Steam enhanced carbon dioxide reforming of methane in DBD plasma reactor. International Journal of Hydrogen Energy, 2011, 36, 8301-8306.	3.8	58
112	Mixing intensification by chaotic advection inside droplets for controlled nanoparticle preparation. Microfluidics and Nanofluidics, 2010, 9, 773-786.	1.0	30
113	Dry Reforming of Methane with Carbon Dioxide Using Pulsed DC Arc Plasma at Atmospheric Pressure. Plasma Chemistry and Plasma Processing, 2010, 30, 257-266.	1.1	40
114	Numerical simulation of hydrodynamics in downers using a CFD-DEM coupled approach. Powder Technology, 2010, 199, 2-12.	2.1	69
115	Thermodynamic analysis of coal pyrolysis to acetylene in hydrogen plasma reactor. Fuel Processing Technology, 2010, 91, 823-830.	3.7	34
116	CFD simulation with detailed chemistry of steam reforming of methane for hydrogen production in an integrated micro-reactor. International Journal of Hydrogen Energy, 2010, 35, 5383-5392.	3.8	84
117	Eulerian-Lagrangian simulation of distinct clustering phenomena and RTDs in riser and downer. Particuology, 2010, 8, 44-50.	2.0	57
118	Modeling and simulation of chemically reacting flows in gas-solid catalytic and non-catalytic processes. Particuology, 2010, 8, 525-530.	2.0	9
119	CFD-DEM simulation of gas-solid reacting flows in fluid catalytic cracking (FCC) process. Chemical Engineering Science, 2010, 65, 542-549.	1.9	101
120	Analysis of catalytic partial oxidation of methane on rhodium-coated foam monolith using CFD with detailed chemistry. Chemical Engineering Science, 2010, 65, 1989-1999.	1.9	17
121	Study on the reactive mixing process in an unbaffled stirred tank using planar laser-induced fluorescence (PLIF) technique. Chemical Engineering Science, 2010, 65, 4511-4518.	1.9	27
122	Heat Transfer Inside Particles and Devolatilization for Coal Pyrolysis to Acetylene at Ultrahigh Temperatures. Energy & Fuels, 2010, 24, 2991-2998.	2.5	32
123	Structure Evolution of Curcumin Nanoprecipitation from a Micromixer. Crystal Growth and Design, 2010, 10, 1021-1024.	1.4	51
124	Millisecond mixing of liquids using a novel jet nozzle. Chemical Engineering Science, 2009, 64, 812-820.	1.9	8
125	Investigation of Dry Reforming of Methane in a Dielectric Barrier Discharge Reactor. Plasma Chemistry and Plasma Processing, 2009, 29, 217-228.	1.1	132
126	Dry reforming of methane in an atmospheric pressure plasma fluidized bed with Ni _{1/3} -Al ₂ O ₃ catalyst. Catalysis Today, 2009, 148, 275-282.	2.2	87

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127	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
128	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
129	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
130	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
131	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
132	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
133	Particle-scale simulation of fluidized bed with immersed tubes. <i>Frontiers of Chemical Engineering in China</i> , 2008, 2, 341-345.	0.6	4
134	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
135	Modeling the hydrodynamics in a coupled high-density downer-to-riser reactor. <i>Powder Technology</i> , 2008, 181, 255-265.	2.1	12
136	Downer reactor: From fundamental study to industrial application. <i>Powder Technology</i> , 2008, 183, 364-384.	2.1	112
137	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
138	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
139	Fast Liquid Jet Mixing in Millimeter Channels with Various Multislits Designs. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 9744-9753.	1.8	10
140	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
141	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
142	Millisecond mixing of two liquid streams in a mixer model. <i>Chemical Engineering Science</i> , 2007, 62, 5688-5695.	1.9	15
143	Fast liquid mixing by cross-flow impingement in millimeter channels. <i>Chemical Engineering Science</i> , 2007, 62, 6178-6190.	1.9	21
144	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

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145	On impacts of solid properties and operating conditions on the performance of gas-solid fluidization systems. Powder Technology, 2007, 172, 167-176.	2.1	24
146	A novel X-ray computed tomography method for fast measurement of multiphase flow. Chemical Engineering Science, 2007, 62, 4325-4335.	1.9	44
147	Study on the Mixing Behavior of Thin Liquid-Sheet Impinging Jets Using the PLIF Technique. Industrial & Engineering Chemistry Research, 2006, 45, 863-870.	1.8	24
148	Experimental and CFD analysis of two-phase cross/countercurrent flow in the packed column with a novel internal. Chemical Engineering Science, 2005, 60, 6210-6216.	1.9	8
149	CFD Modelling and Simulation of Hydrodynamics in Liquid-Solid Circulating Fluidized Beds. Canadian Journal of Chemical Engineering, 2005, 83, 177-185.	0.9	67
150	CFD simulation of hydrodynamics in the entrance region of a downer. Chemical Engineering Science, 2001, 56, 1687-1696.	1.9	46
151	Modeling the hydrodynamics of downer reactors based on kinetic theory. Chemical Engineering Science, 1999, 54, 2019-2027.	1.9	86
152	Profiles of particle velocity and solids fraction in a high-density riser. Powder Technology, 1998, 100, 183-189.	2.1	103
153	Axial and lateral dispersion of fine particles in a binary solid riser. Canadian Journal of Chemical Engineering, 1998, 76, 19-26.	0.9	42