

Chencan Du

List of Publications by Year in Descending Order

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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.

158
papers

2,468
citations

26
h-index

40
g-index

165
ext. papers

3,057
ext. citations

4.6
avg, IF

5.68
L-index

#	Paper	IF	Citations
158	Experimental and DFT studies on diesel-steam-reforming to hydrogen over a bimetallic RhNi-based MgO-Al ₂ O ₃ microsphere catalyst. <i>Fuel</i> , 2022 , 318, 123632	7.1	0
157	Determination of Time-Evolving interfacial tension and ionic surfactant adsorption kinetics in microfluidic droplet formation process.. <i>Journal of Colloid and Interface Science</i> , 2022 , 617, 106-117	9.3	0
156	A Much Cleaner Oxidation Process for 2,2'-Dibenzothiazole Disulfide Synthesis Catalyzed by Phosphotungstic Acid. <i>Industrial & Engineering Chemistry Research</i> , 2022 , 61, 207-214	3.9	0
155	Microdroplet-based continuous countercurrent extraction with high phase ratio. <i>Separation and Purification Technology</i> , 2022 , 121269	8.3	0
154	Green and sustainable synthesis of poly(ϵ -valerolactone) with a TBD catalyzed ring-opening polymerization reaction. <i>Reaction Chemistry and Engineering</i> , 2021 , 7, 76-83	4.9	0
153	Reaction Kinetics Determination Based on Microfluidic Technology. <i>Chinese Journal of Chemical Engineering</i> , 2021 ,	3.2	5
152	Geometric Effect on Gas-Liquid Bubbly Flow in Capillary-Embedded T-Junction Microchannels. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 4735-4744	3.9	7
151	Formation Mechanism of Monodispersed Polysilsesquioxane Spheres in One-Step Sol-Gel Method. <i>Langmuir</i> , 2021 , 37, 5878-5885	4	5
150	A novel method for fast and continuous preparation of superfine titanium dioxide nanoparticles in microfluidic system. <i>Particuology</i> , 2021 , 60, 61-61	2.8	2
149	Whole-cell biocatalytic synthesis of S-(4-chlorophenyl)-(pyridin-2-yl) methanol in a liquid-liquid biphasic microreaction system. <i>Bioresource Technology</i> , 2021 , 330, 125022	11	4
148	High-frequency formation of bubble with short length in a capillary embedded step T-junction microdevice. <i>AIChE Journal</i> , 2021 , 67, e17376	3.6	6
147	Main Reaction Network and Kinetics in the Synthesis of 2,2'-Dibenzothiazole Disulfide. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 10094-10100	3.9	1
146	Microfluidic electrosynthesis of thiuram disulfides. <i>Green Chemistry</i> , 2021 , 23, 582-591	10	5
145	Continuous synthesis of 1-ethoxy-2,3-difluoro-4-iodo-benzene in a microreactor system and the Gaussian and computational fluid dynamics simulations. <i>AIChE Journal</i> , 2021 , 67, e17217	3.6	1
144	Scaling up microreactors for kilogram-scale synthesis of piperacillin: Experiments and computational fluid dynamics simulations. <i>AIChE Journal</i> , 2021 , 67, e17231	3.6	2
143	Determination of Dynamic Interfacial Tension during the Generation of Tiny Droplets in the Liquid-Liquid Jetting Flow Regime. <i>Langmuir</i> , 2020 , 36, 13633-13641	4	9
142	Kinetics on thermal dissociation and oligomerization of dicyclopentadiene in a high temperature & pressure microreactor. <i>Chemical Engineering Science</i> , 2020 , 228, 115892	4.4	4

141	Experimental and model-based study of biohydration of acrylonitrile to acrylamide in a microstructured chemical system. <i>AIChE Journal</i> , 2020 , 66, e16298	3.6	5
140	A chemical looping technology for the synthesis of 2,2'-dibenzothiazole disulfide. <i>Green Chemistry</i> , 2020 , 22, 2778-2785	10	3
139	High-throughput preparation of uniform tiny droplets in multiple capillaries embedded stepwise microchannels. <i>Journal of Flow Chemistry</i> , 2020 , 10, 271-282	3.3	4
138	Kinetics determination of fast exothermic reactions with infrared thermography in a microreactor. <i>Journal of Flow Chemistry</i> , 2020 , 10, 219-226	3.3	12
137	Interactions between CO-Responsive Switchable Emulsion Droplets Determined by Using Optical Tweezers. <i>Langmuir</i> , 2020 , 36, 4600-4606	4	3
136	A Novel Hollow-Fiber Membrane Embedded Co-axial Microdevice for Simultaneous Extraction and Stripping. <i>Solvent Extraction and Ion Exchange</i> , 2020 , 38, 103-119	2.5	0
135	Continuous Synthesis of Nanocrystals via Flow Chemistry Technology. <i>Small</i> , 2020 , 16, e1902828	11	42
134	Controllable preparation of highly uniform Alumina microspheres via the sol-gel route for alkoxide in a coaxial microchannel. <i>Journal of Sol-Gel Science and Technology</i> , 2020 , 93, 391-401	2.3	7
133	Liquid-Liquid Mass Transfer Enhancement in Milliscale Packed Beds. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 4048-4057	3.9	6
132	Reaction Pathway and Selectivity Control of Tetraethyl Thiuram Disulfide Synthesis with NaHCO ₃ as a pH Regulator. <i>ACS Omega</i> , 2020 , 5, 23736-23742	3.9	1
131	Preparation of 2,3-Epoxypropyl Neodecanoate: Process Optimization and Mechanism Discussion. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 19168-19176	3.9	5
130	Efficient synthesis of lithium rare-earth tetrafluoride nanocrystals via a continuous flow method. <i>Nano Research</i> , 2020 , 13, 2837-2846	10	7
129	Selective Adsorption of C ₁ , C ₂ , and C ₃ Linear Olefins from Binary Liquid-Phase Olefin/Paraffin Mixtures Using Zeolite Adsorbents: Experiment and Simulations. <i>Langmuir</i> , 2020 , 36, 8597-8609	4	4
128	Continuous, homogeneous and rapid synthesis of 4-bromo-3-methylanisole in a modular microreaction system. <i>Chinese Journal of Chemical Engineering</i> , 2020 , 28, 2092-2098	3.2	3
127	Hydrogen Production via Model Diesel Steam Reforming over a High-Performance Ni/Ce _{0.75} La _{0.25} O ₂ -Al ₂ O ₃ Catalyst with Oxygen Vacancies. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 15188-15201	3.9	5
126	Investigation of the Nucleation and Initial Growth of Nanosilica Using In Situ Small-Angle X-ray Scattering and Reactive Molecular Dynamics Simulation. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 21853-21866	3.8	1
125	Continuous-flow synthesis of (E)-2-Hexenal intermediates using a two-stage microreactor system. <i>Journal of Flow Chemistry</i> , 2020 , 10, 661-672	3.3	
124	Preparation of large In(OH) ₃ and In ₂ O ₃ particles through a seed-mediated growth method in a microreactor. <i>Particuology</i> , 2020 , 49, 1-8	2.8	2

123	Hydrodynamics and mass transfer of gas-liquid flow in micropacked bed reactors with metal foam packing. <i>AICHE Journal</i> , 2020 , 66, e16803	3.6	20
122	Continuous synthesis of tetraethyl thiuram disulfide with CO ₂ as acid agent in a gas-liquid microdispersion system. <i>Journal of Flow Chemistry</i> , 2019 , 9, 211-220	3.3	4
121	Manipulable Formation of Ferrofluid Droplets in Y-Shaped Flow-Focusing Microchannels. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 19226-19238	3.9	7
120	Continuous and Ultrafast Preparation of In(OH) ₃ , InOOH, and In ₂ O ₃ Series in a Microreactor for Gas Sensors. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 2206-2216	3.9	9
119	Liquid-Liquid Microdispersion Method for the Synthesis of TS-1 Free of Extra-Framework Ti Species. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 12010-12017	3.9	2
118	Numerical simulation and experimental investigation of multiphase mass transfer process for industrial applications in China. <i>Reviews in Chemical Engineering</i> , 2019 , 36, 187-214	5	2
117	Manipulation and Control of Structure and Size of Inorganic Nanomaterials in Microchemical Systems. <i>Chemical Engineering and Technology</i> , 2019 , 42, 1996-2008	2	7
116	A modified mixed-acid catalytic system for Beckmann rearrangement of cyclohexanone oxime. <i>AICHE Journal</i> , 2019 , 65, e16603	3.6	6
115	Intensification of the Sulfuric Acid Alkylation Process with Trifluoroacetic Acid. <i>AICHE Journal</i> , 2019 , 65, 113-119	3.6	6
114	Mixing Performance and Application of a Three-Dimensional Serpentine Microchannel Reactor with a Periodic Vortex-Inducing Structure. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 13357-13365	3.9	10
113	Ultra-low formation of octahydrophenazine in the Beckmann rearrangement of cyclohexanone oxime using a microreactor. <i>Reaction Chemistry and Engineering</i> , 2019 , 4, 1991-1999	4.9	1
112	Kinetics Study of Sulfuric Acid Alkylation of Isobutane and Butene Using a Microstructured Chemical System. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 1150-1158	3.9	5
111	Microreaction Technology for Synthetic Chemistry. <i>Chinese Journal of Chemistry</i> , 2019 , 37, 161-170	4.9	10
110	Process Intensification of Sulfuric Acid Alkylation Using a Microstructured Chemical System. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 3523-3529	3.9	12
109	Calcium Stearate as an Acid Scavenger for Synthesizing High Concentrations of Bromobutyl Rubber in a Microreactor System. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 3898-3907	3.9	6
108	Preparation of In(OH) ₃ and In ₂ O ₃ Nanorods through a Novel Hydrothermal Method and the Effect of Sn Dopant on Crystal Structures. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 2882-2889	3.9	12
107	Numerical Study of Surfactant Dynamics during Emulsification in a T-Junction Microchannel. <i>Langmuir</i> , 2018 , 34, 4980-4990	4	26
106	Organocatalyzed Beckmann rearrangement of cyclohexanone oxime in a microreactor: Kinetic model and product inhibition. <i>AICHE Journal</i> , 2018 , 64, 571-577	3.6	15

105	In Situ Removal of HBr via Microdroplets for High Selectivity Bromobutyl Rubber Synthesis in a Microreaction System. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 10883-10892	3.9	4
104	Controllability and flexibility in particle manufacturing of a segmented microfluidic device with passive picoinjection. <i>AIChE Journal</i> , 2018 , 64, 3817-3825	3.6	6
103	Effects of interface adsorption of <i>Rhodococcus ruber</i> TH3 cells on the biocatalytic hydration of acrylonitrile to acrylamide. <i>Bioprocess and Biosystems Engineering</i> , 2018 , 41, 931-938	3.7	4
102	Preparation of Uniform γ -Alumina Microspheres with Large Pore Volumes in a Coaxial Microchannel. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 11636-11644	3.9	11
101	Determination of the Liquid/Liquid Mass Transfer Coefficient for Each Phase in Microchannels. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 9028-9036	3.9	11
100	Green Synthesis of Thiuram Disulfides with CO ₂ as an Acid Agent for Sustainable Development. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 16572-16578	3.9	7
99	Controllable Preparation and Catalytic Performance of Magnetic Fe ₃ O ₄ @CeO ₂ -Polysulfone Nanocomposites with Core-Shell Structure. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 15039-15045	3.9	4
98	Green Synthesis of Ag ⁺ /TiO ₂ Supported on Porous Glass with Enhanced Photocatalytic Performance for Oxidative Desulfurization and Removal of Dyes under Visible Light. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 13276-13286	8.3	50
97	Ultrafast, Continuous and Shape-Controlled Preparation of CeO ₂ Nanostructures: Nanorods and Nanocubes in a Microfluidic System. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 7525-7532	3.9	16
96	Investigation of dynamic surface tension in gas-liquid absorption using a microflow interfacial tensiometer. <i>Reaction Chemistry and Engineering</i> , 2017 , 2, 232-238	4.9	5
95	A kinetic study of the biological catalytic hydration of acrylonitrile to acrylamide. <i>Chemical Engineering Journal</i> , 2017 , 317, 699-706	14.7	8
94	A Size-Controllable Precipitation Method to Prepare CeO ₂ Nanoparticles in a Membrane Dispersion Microreactor. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 4993-4999	3.9	29
93	Synthesis of polystyrene latex via emulsion polymerization with poly(vinyl alcohol) as sole stabilizer. <i>Journal of Applied Polymer Science</i> , 2017 , 134, 45111	2.9	11
92	TiO(OH) - highly effective catalysts for optimizing CO desorption kinetics reducing CO capture cost: A new pathway. <i>Scientific Reports</i> , 2017 , 7, 2943	4.9	9
91	Green synthesis and enhanced photocatalytic activity of Ce-doped TiO ₂ nanoparticles supported on porous glass. <i>Particuology</i> , 2017 , 34, 103-109	2.8	17
90	Design and Scaling Up of Microchemical Systems: A Review. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2017 , 8, 285-305	8.9	141
89	Highly efficient synthesis of polyvinyl butyral (PVB) using a membrane dispersion microreactor system and recycling reaction technology. <i>Green Chemistry</i> , 2017 , 19, 2155-2163	10	18
88	An Efficient Chitosan/Silica Composite Core-Shell Microspheres-Supported Pd Catalyst for Aryl Iodides Sonogashira Coupling Reactions. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 143-152	3.9	20

87	Controllable Preparation and Catalytic Performance of Heterogeneous Fenton-like γ -Fe ₂ O ₃ /Crystalline Glass Microsphere Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 13751-13759	3.9	17
86	Microdroplet Generation with Dilute Surfactant Concentration in a Modified T-Junction Device. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 12131-12138	3.9	12
85	Synthesis of Micro/Nano-assembled Manganese Carbonate via Aqueous Precipitation Assisted by Ethanol. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 10036-10043	3.9	12
84	Liquid-Liquid microflow reaction engineering. <i>Reaction Chemistry and Engineering</i> , 2017 , 2, 611-627	4.9	68
83	Preparation of Large-Pore-Volume γ -Alumina Nanofibers with a Narrow Pore Size Distribution in a Membrane Dispersion Microreactor. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 8888-8894	3.9	6
82	Continuous Flow Synthesis of Polystyrene Nanoparticles via Emulsion Polymerization Stabilized by a Mixed Nonionic and Anionic Emulsifier. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 9489-9495	3.9	12
81	Impurity Formation in the Beckmann Rearrangement of Cyclohexanone Oxime to Yield ϵ -Caprolactam. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 14207-14213	3.9	8
80	Microflow extraction: A review of recent development. <i>Chemical Engineering Science</i> , 2017 , 169, 18-33	4.4	125
79	Synthesizing bromobutyl rubber by a microreactor system. <i>AIChE Journal</i> , 2017 , 63, 1002-1009	3.6	15
78	Kinetics study of acrylic acid polymerization with a microreactor platform. <i>Chemical Engineering Journal</i> , 2016 , 284, 233-239	14.7	25
77	Precipitation Preparation of High Surface Area and Porous Nanosized ZnO by Continuous Gas-Based Impinging Streams in Unconfined Space. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 11943-11949	3.9	9
76	Facile synthesis of a novel CeO ₂ /glass bead catalyst with enhanced catalytic oxidation performance. <i>RSC Advances</i> , 2016 , 6, 112413-112419	3.7	4
75	Cationic polymerization of isobutylene catalysed by AlCl ₃ with multiple nucleophilic reagents. <i>RSC Advances</i> , 2016 , 6, 97983-97989	3.7	10
74	Study on the transient interfacial tension in a microfluidic droplet formation coupling interphase mass transfer process. <i>AIChE Journal</i> , 2016 , 62, 2542-2549	3.6	13
73	Generation of Poly(isobutene-co-isoprene) in a Microflow Device. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 1215-1220	3.9	7
72	Catalytic hydrogenation of 2-ethylanthraquinone using an in situ synthesized Pd catalyst. <i>RSC Advances</i> , 2016 , 6, 23942-23948	3.7	8
71	A size-controllable preparation method for indium tin oxide particles using a membrane dispersion micromixer. <i>Chemical Engineering Journal</i> , 2016 , 293, 1-8	14.7	24
70	Controllable Hydrothermal Conversion from Ni-Co-Mn Carbonate Nanoparticles to Microspheres. <i>Crystals</i> , 2016 , 6, 156	2.3	1

69	Droplet formation of H ₂ SO ₄ /alkane system in a T-junction microchannel: Gravity effect. <i>AICHE Journal</i> , 2016 , 62, 4564-4573	3.6	9
68	Determination of the Micromixing Scale in a Microdevice by Numerical Simulation and Experiments. <i>Chemical Engineering and Technology</i> , 2016 , 39, 909-917	2	5
67	Caprolactam as a New Additive To Enhance Alkylation of Isobutane and Butene in H ₂ SO ₄ . <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 12818-12824	3.9	13
66	Kinetic study and intensification of acetyl guaiacol nitration with nitric acid/acetic acid system in a microreactor. <i>Journal of Flow Chemistry</i> , 2016 , 6, 309-314	3.3	21
65	Back Extraction of HCl from TOA Dissolved in N-Octanol by Aqueous Ammonia in a Microchannel Device. <i>Solvent Extraction and Ion Exchange</i> , 2016 , 34, 60-73	2.5	4
64	Kinetic Study of Reactions of Aniline and Benzoyl Chloride Using NH ₃ as Acid Absorbent in a Microstructured Chemical System. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 6310-6316	3.9	2
63	Mass-Transfer-Controlled Dynamic Interfacial Tension in Microfluidic Emulsification Processes. <i>Langmuir</i> , 2016 , 32, 3174-85	4	28
62	Kinetic study on selective extraction of HCl and H ₃ PO ₄ in a microfluidic device. <i>Chinese Journal of Chemical Engineering</i> , 2016 , 24, 221-225	3.2	11
61	Hydrodynamics and Mass Transfer in a Countercurrent Multistage Microextraction System. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 6006-6017	3.9	13
60	Magnetic titanium dioxide based nanomaterials: synthesis, characteristics, and photocatalytic application in pollutant degradation. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 17511-17524	13	68
59	Preparation of poly(p-phenylene terephthalamide) in a microstructured chemical system. <i>RSC Advances</i> , 2015 , 5, 64055-64064	3.7	12
58	Growth of Aragonite CaCO ₃ Whiskers in a Microreactor with Calcium Dodecyl Benzenesulfonate as a Control Agent. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 7131-7140	3.9	11
57	Bubble generation rules in microfluidic devices with microsieve array as dispersion medium. <i>AICHE Journal</i> , 2015 , 61, 1663-1676	3.6	8
56	Multiple reuses of <i>Rhodococcus ruber</i> TH3 free cells to produce acrylamide in a membrane dispersion microreactor. <i>Bioresource Technology</i> , 2015 , 187, 198-204	11	8
55	Continuous Removal of Lead from Aqueous Solutions by Ca(II) Imprinted Chitosan Microspheres Packed Column. <i>Separation Science and Technology</i> , 2015 , 50, 1127-1134	2.5	3
54	Visual study of mass transfer characterization in the process of biological catalytic hydration of acrylonitrile using pendant drop method. <i>RSC Advances</i> , 2015 , 5, 79164-79171	3.7	8
53	Ultra-thin liquid film extraction based on a gas/liquid/liquid double emulsion in a microchannel device. <i>RSC Advances</i> , 2015 , 5, 6470-6474	3.7	17
52	Measurement of internal flow field during droplet formation process accompanied with mass transfer. <i>Microfluidics and Nanofluidics</i> , 2015 , 19, 757-766	2.8	16

51	Determination of kinetics of CO ₂ absorption in solutions of 2-amino-2-methyl-1-propanol using a microfluidic technique. <i>AICHE Journal</i> , 2015 , 61, 4358-4366	3.6	21
50	A consecutive microreactor system for the synthesis of caprolactam with high selectivity. <i>AICHE Journal</i> , 2015 , 61, 1959-1967	3.6	11
49	Kinetic study of reactions of aniline and benzoyl chloride in a microstructured chemical system. <i>AICHE Journal</i> , 2015 , 61, 3804-3811	3.6	21
48	Gas/liquid/liquid three-phase flow patterns and bubble/droplet size laws in a double T-junction microchannel. <i>AICHE Journal</i> , 2015 , 61, 1722-1734	3.6	22
47	Pressure drop-based determination of dynamic interfacial tension of droplet generation process in T-junction microchannel. <i>Microfluidics and Nanofluidics</i> , 2015 , 18, 503-512	2.8	32
46	Organocatalyzed Beckmann Rearrangement of Cyclohexanone Oxime in a Microchemical System. <i>Organic Process Research and Development</i> , 2015 , 19, 352-356	3.9	10
45	In situ preparation of Pd/Al ₂ O ₃ /SiO ₂ composite microspheres by combining a sol-gel process and precipitation process in a microchannel. <i>Chemical Engineering Journal</i> , 2014 , 236, 293-299	14.7	16
44	Preparation of highly dispersed precipitated nanosilica in a membrane dispersion microreactor. <i>Chemical Engineering Journal</i> , 2014 , 258, 327-333	14.7	23
43	Hydration of acrylonitrile to produce acrylamide using biocatalyst in a membrane dispersion microreactor. <i>Bioresource Technology</i> , 2014 , 169, 416-420	11	23
42	Liquid-liquid microflows and mass transfer performance in slit-like microchannels. <i>Chemical Engineering Journal</i> , 2014 , 258, 34-42	14.7	37
41	Direct Precipitation for a Continuous Synthesis of Nanoiron Phosphate with High Purity. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 6723-6729	3.9	10
40	Immobilization of Penicillin G Acylase on Mesostructured Cellular Foams through a Cross-Linking Network Method. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 1947-1953	3.9	26
39	Intensification of fast exothermic reaction by gas agitation in a microchemical system. <i>AICHE Journal</i> , 2014 , 60, 2724-2730	3.6	40
38	CFD Simulation of Droplet Formation in Microchannels by a Modified Level Set Method. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 4913-4921	3.9	37
37	Lattice-Boltzmann method for the simulation of multiphase mass transfer and reaction of dilute species. <i>Physical Review E</i> , 2014 , 89, 053308	2.4	21
36	Strategy for Scaling-up of a Microsieve Dispersion Reactor. <i>Chemical Engineering and Technology</i> , 2014 , 37, 2116-2122	2	28
35	Microdroplet coalescences at microchannel junctions with different collision angles. <i>AICHE Journal</i> , 2013 , 59, 643-649	3.6	40
34	Novel One-Step Synthesis Process from Cyclohexanone to Caprolactam in Trifluoroacetic Acid. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 6377-6381	3.9	23

33	Synthesis of single-crystal dendritic iron hydroxyl phosphate as a Fenton catalyst. <i>CrystEngComm</i> , 2013 , 15, 9104	3.3	13
32	Preparation of microcapsule-supported Pd catalyst using a microfluidic platform. <i>Chinese Journal of Catalysis</i> , 2013 , 34, 1635-1643	11.3	5
31	In situ preparation of hydrophobic CaCO ₃ nanoparticles in a gas-liquid microdispersion process. <i>Particuology</i> , 2013 , 11, 421-427	2.8	38
30	Preparation of Highly Dispersed and Small-Sized ZnO Nanoparticles in a Membrane Dispersion Microreactor and Their Photocatalytic Degradation. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 5683-5690	3.9	29
29	Preparation of Calcium Benzene Sulfonate Detergents by a Microdispersion Process. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 10699-10706	3.9	10
28	A facile pressure drop measurement system and its applications to gas-liquid microflows. <i>Microfluidics and Nanofluidics</i> , 2013 , 15, 715-724	2.8	12
27	Controllable preparation of uniform polystyrene nanospheres with premix membrane emulsification. <i>Journal of Applied Polymer Science</i> , 2013 , 129, 1202-1211	2.9	5
26	A one-step microfluidic approach for controllable preparation of nanoparticle-coated patchy microparticles. <i>Microfluidics and Nanofluidics</i> , 2012 , 13, 491-498	2.8	32
25	Polyethylenimine-impregnated siliceous mesocellular foam particles as high capacity CO ₂ adsorbents. <i>RSC Advances</i> , 2012 , 2, 6509	3.7	62
24	Bionic system for countercurrent multi-stage micro-extraction. <i>RSC Advances</i> , 2012 , 2, 10817	3.7	24
23	Chlorohydration of Allyl Chloride to Dichloropropanol in a Microchemical System. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 14685-14691	3.9	11
22	Experimental study of microbubble coalescence in a T-junction microfluidic device. <i>Microfluidics and Nanofluidics</i> , 2012 , 12, 715-722	2.8	23
21	Mixture Absorption System of Monoethanolamine-Triethylene Glycol for CO ₂ Capture. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 3966-3976	3.9	71
20	Preparation of Pseudoboehmite with a Large Pore Volume and a Large Pore Size by Using a Membrane-Dispersion Microstructured Reactor through the Reaction of CO ₂ and a NaAlO ₂ Solution. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 3889-3894	3.9	21
19	Phase separation of parallel laminar flow for aqueous two phase systems in branched microchannel. <i>Microfluidics and Nanofluidics</i> , 2011 , 10, 1079-1086	2.8	27
18	Controllable Preparation of SiO ₂ Nanoparticles Using a Microfiltration Membrane Dispersion Microreactor. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 8536-8541	3.9	32
17	Liquid-Liquid Equilibria for Benzene + Cyclohexane + 1-Butyl-3-methylimidazolium Hexafluorophosphate. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 510-512	2.8	32
16	Preparation of Monodispersed Uniform Silica Spheres with Large Pore Size for Fast Adsorption of Proteins. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 4162-4168	3.9	25

15	Liquid-Liquid two-phase flow in pore array microstructured devices for scaling-up of nanoparticle preparation. <i>AIChE Journal</i> , 2009 , 55, 3041-3051	3.6	22
14	Preparation of Uniform Microcapsules Containing 1-Octanol for Caprolactam Extraction. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 4507-4513	3.9	20
13	Heat-Transfer Performance of a Liquid-Liquid Microdispersed System. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 9754-9758	3.9	24
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