

Jichang Liu

List of Publications by Year in descending order

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papers

1,132
citations

430874

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434195

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1283
citing authors

#	ARTICLE	IF	CITATIONS
1	A Decade of UiO-66 Research: A Historic Review of Dynamic Structure, Synthesis Mechanisms, and Characterization Techniques of an Archetypal Metal-Organic Framework. <i>Crystal Growth and Design</i> , 2020, 20, 1347-1362.	3.0	306
2	Metal-organic framework-based mixed-matrix membranes for gas separation: An overview. <i>Journal of Polymer Science</i> , 2020, 58, 2518-2546.	3.8	41
3	Building and Application of Delayed Coking Structure-Oriented Lumping Model. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 3923-3931.	3.7	40
4	Molecular-Level-Process Model with Feedback of the Heat Effects on a Complex Reaction Network in a Fluidized Catalytic Cracking Process. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 3568-3577.	3.7	37
5	Building a Kinetic Model for Steam Cracking by the Method of Structure-Oriented Lumping. <i>Energy & Fuels</i> , 2010, 24, 4380-4386.	5.1	36
6	Metal-Modified Cu-BTC Acid for Highly Enhanced Adsorption of Organosulfur Species. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 9541-9550.	3.7	33
7	A Delayed Coking Model Built Using the Structure-Oriented Lumping Method. <i>Energy & Fuels</i> , 2012, 26, 1715-1724.	5.1	32
8	Hollow-spherical composites of Polyaniline/Cobalt Sulfide/Carbon nanodots with enhanced magnetocapacitance and electromagnetic wave absorption capabilities. <i>Applied Surface Science</i> , 2016, 378, 49-56.	6.1	32
9	Knudsen diffusion in channels and networks. <i>Chemical Engineering Science</i> , 2014, 111, 1-14.	3.8	31
10	Generating Assembled MFI Nanocrystals with Reduced <i>b</i> -Axis through Structure-Directing Agent Exchange Induced Recrystallization. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 13959-13968.	13.8	31
11	Hybrid Supercapacitors Based on Interwoven CoO-NiO-ZnO Nanowires and Porous Graphene Hydrogel Electrodes with Safe Aqueous Electrolyte for High Supercapacitance. <i>Advanced Electronic Materials</i> , 2019, 5, 1900397.	5.1	30
12	Monitoring Histone Methylation (H3K9me3) Changes in Live Cells. <i>ACS Omega</i> , 2019, 4, 13250-13259.	3.5	29
13	Modeling Nanoparticle Dispersion in Electrospun Nanofibers. <i>Langmuir</i> , 2018, 34, 1340-1346.	3.5	25
14	Prolonged HKUST-1 functionality under extreme hydrothermal conditions by electrospinning polystyrene fibers as a new coating method. <i>Microporous and Mesoporous Materials</i> , 2018, 270, 34-39.	4.4	25
15	The Synthesis of Hierarchical SAPO-34 and its Enhanced Catalytic Performance in Chloromethane Conversion to Light Olefins. <i>Catalysis Letters</i> , 2014, 144, 1609-1616.	2.6	24
16	Adsorption and diffusion of carbon dioxide on the metal-organic framework CuBTB. <i>Chemical Engineering Science</i> , 2017, 167, 10-17.	3.8	23
17	A cobalt metal-organic framework with small pore size for adsorptive separation of CO ₂ over N ₂ and CH ₄ . <i>AIChE Journal</i> , 2017, 63, 4532-4540.	3.6	21
18	Molecular level analysis on performance of diameter expanding reactor to improve gasoline quality in FCC process. <i>Fuel</i> , 2021, 290, 119978.	6.4	20

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19	Reaction network of sulfur compounds in delayed coking process. Chemical Engineering Journal, 2021, 422, 129903.	12.7	20
20	Energetics of Confinement of <i>n</i> -Hexane in Ca ²⁺ /Na Ion Exchanged Zeolite A. Journal of Physical Chemistry C, 2014, 118, 25590-25596.	3.1	18
21	Photocatalytic Benzylic Oxidation Promoted by Eosin Y in Water. ACS Sustainable Chemistry and Engineering, 2022, 10, 1822-1828.	6.7	17
22	Rapid Construction of Green Nanopesticide Delivery Systems Using Sophorolipids as Surfactants by Flash Nanoprecipitation. Journal of Agricultural and Food Chemistry, 2022, 70, 4912-4920.	5.2	15
23	Monte Carlo Simulations to Examine the Role of Pore Structure on Ambient Air Separation in Metal-Organic Frameworks. Industrial & Engineering Chemistry Research, 2018, 57, 9240-9253.	3.7	14
24	Manipulating Oxidation States of Copper within Cu-BTC Using Na ₂ S ₂ O ₃ as a New Strategy for Enhanced Adsorption of Sulfide. Industrial & Engineering Chemistry Research, 2019, 58, 19503-19510.	3.7	14
25	Molecular-level reaction network in delayed coking process based on structure-oriented lumping. Chemical Engineering Science, 2021, 246, 116981.	3.8	14
26	One-pot synthesis of binderless zeolite A spheres via <i>in situ</i> hydrothermal conversion of silica gel precursors. AIChE Journal, 2018, 64, 4027-4038.	3.6	12
27	Preparation and Carbonization of Metal Organic Framework Zn(bdc)(ted) _{0.5} for Enhancing Moisture Resistance and Methane Storage Capacity. Industrial & Engineering Chemistry Research, 2021, 60, 3809-3818.	3.7	12
28	One-pot synthesis of CoO _x /ZnO/rGO supported on Ni foam for high-performance hybrid supercapacitor with greatly enhanced cycling stability. Chinese Chemical Letters, 2021, 32, 2027-2032.	9.0	11
29	Enhancing of Nanocatalyst-Driven Chemodynamic Therapy for Endometrial Cancer Cells Through Inhibition of PINK1/Parkin-Mediated Mitophagy. International Journal of Nanomedicine, 2021, Volume 16, 6661-6679.	6.7	11
30	Nickel-catalyzed <i>in situ</i> C-alkylation of ketones with benzyl alcohols. Applied Organometallic Chemistry, 2022, 36, e6493.	3.5	10
31	Converting CO ₂ Hydrogenation Products from Paraffins to Olefins: Modification of Zeolite Surface Properties by a UiO-66 Membrane. ACS Catalysis, 2022, 12, 5894-5902.	11.2	10
32	Removal of nicks from crude oil to water by two micro-sized core-shell particles bearing poly(N-vinyl pyrrolidone). Fuel, 2019, 245, 181-187.	6.4	8
33	<i>In Situ</i> Hydrothermal Conversion of Silica Gel Precursors to Binderless Zeolite X Pellets for Enhanced Olefin Adsorption. Industrial & Engineering Chemistry Research, 2020, 59, 9997-10009.	3.7	8
34	Structure-Property-Energetics Relationship of Organosulfide Capture Using Cu(I)/Cu(II)-BTC Edited by Valence Engineering. Industrial & Engineering Chemistry Research, 2021, 60, 371-377.	3.7	8
35	Solution plasma-assisted preparation of highly dispersed NiMnAl-LDO catalyst to enhance low-temperature activity of CO ₂ methanation. International Journal of Hydrogen Energy, 2022, 47, 2234-2244.	7.1	8
36	Pd-Catalyzed direct C-H arylation of pyrrolo[1,2-a]quinoxalines. Organic and Biomolecular Chemistry, 2022, , .	2.8	8

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37	Preparation and evaluation of 30# hard grade asphalt. <i>Petroleum Science and Technology</i> , 2017, 35, 436-442.	1.5	7
38	Tuning the Catalytic Activity and Stability of Al ³⁺ -Ti Bimetallic Species Immobilized on MgO ²⁺ -Al ₂ O ₃ -SiO ₂ for 1-Decene Oligomerization. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 6664-6672.	3.7	7
39	Synthesis of hierarchical 5A zeolites to improve the separation efficiency of n-paraffins. <i>Adsorption Science and Technology</i> , 2019, 37, 530-544.	3.2	7
40	Enhancing Hydrogen Adsorption Capacity of Metal Organic Frameworks M(<i>i</i> -BDC) _{0.5} TED _{0.5} through Constructing a Bimetallic Structure. <i>ACS Omega</i> , 2022, 7, 20081-20091.	3.5	7
41	Numerical and Experimental Research on a Kaibel Divided-Wall Column: Design and Steady-State and Dynamic Operation. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 12557-12567.	3.7	6
42	Study on structure control and pour point depression mechanism of comb-type copolymers. <i>Petroleum Science and Technology</i> , 2021, 39, 777-794.	1.5	6
43	UIO66-membranized SAPO-34 Pt catalyst for enhanced carbon dioxide conversion efficiency. <i>Materials Today Energy</i> , 2021, 21, 100781.	4.7	6
44	Reaction Behaviors of Polycyclic Aromatic Hydrocarbon Molecules in a Diesel Hydro-Upgrading Process Based on the Molecular-Level Reaction Kinetic Model. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 5723-5733.	3.7	6
45	Mean stop paths and diffusion regimes of molecules in one-dimensional zeolite channels. <i>Chemical Engineering Science</i> , 2017, 172, 117-124.	3.8	5
46	Generating Assembled MFI Nanocrystals with Reduced <i>b</i> -Axis through Structure-Directing Agent Exchange Induced Recrystallization. <i>Angewandte Chemie</i> , 2021, 133, 14078-14087.	2.0	5
47	Immobilization of Gold Nanoparticles in Spherical Polymer Brushes Observed by Small-Angle X-ray Scattering. <i>Langmuir</i> , 2022, 38, 1869-1876.	3.5	5
48	Reduction of NO _x in fluid catalytic cracking flue gas over Mg-Al spinel modified with transition metal oxides. <i>Petroleum Science and Technology</i> , 2016, 34, 1958-1963.	1.5	4
49	Solvent deasphalting of Saudi residue to produce 30 [#] hard asphalt. <i>Petroleum Science and Technology</i> , 2016, 34, 1777-1782.	1.5	3
50	Optimization of vacuum resid solvent deasphalting to produce bright stock and hard asphalt. <i>Petroleum Science and Technology</i> , 2018, 36, 55-61.	1.5	3
51	A kinetic model for <i>in situ</i> coking denitrification of heavy oil with high nitrogen content based on starch using a structure-oriented lumping method. <i>RSC Advances</i> , 2018, 8, 32707-32718.	3.6	3
52	Reaction Kinetic Model of Naphtha-Methanol Catalytic Conversion for Light Olefins over HZSM-5 Based on Structure-Oriented Lumping. <i>Energy & Fuels</i> , 2021, 35, 10786-10795.	5.1	3
53	Characterization of hard-grade asphalt using entropy analysis. <i>Petroleum Science and Technology</i> , 2017, 35, 703-709.	1.5	3
54	Comparative evaluation of the aging performance of hard asphalts using physical chemical relationships. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2017, 39, 264-270.	2.3	2

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55	Crystallization Behaviours of Poly(vinylidene fluoride) (PVDF) Nanocomposites with MoS ₂ Nanosheets with Different Surface Functional Groups. Journal of Nanoscience and Nanotechnology, 2020, 20, 7535-7543.	0.9	2
56	Hosting AlCl ₃ on ternary metal oxide composites for catalytic oligomerization of 1-decene: Revealing the role of supports via performance evaluation and DFT calculation. Microporous and Mesoporous Materials, 2022, 333, 111665.	4.4	2
57	Kinetics on the Integration of Methanol Aromatization with Raffinate Oil over ZSM-5/ZSM-11 Zeolite. Industrial & Engineering Chemistry Research, 2021, 60, 18293-18303.	3.7	2
58	Porous carbon materials with improved hydrogen storage capacity by carbonizing Zn(BDC)TED0.5. Journal of Solid State Chemistry, 2022, 314, 123409.	2.9	2
59	Study on quantitative structure of oil from oily sludge by improved Brown-Ladner (B-L) method. Petroleum Science and Technology, 2022, 40, 871-878.	1.5	1
60	Enhanced adsorption selectivity of 1-hexene / n-hexane mixtures in Cu-BTC metal-organic framework by acid modification. Microporous and Mesoporous Materials, 2022, 337, 111909.	4.4	1
61	Assembly of unsymmetrical 1,3,5-triarylbenzenes via tandem reaction of 1,2-arylethenesulfonyl fluorides and 1-cyano-1,2-methylenones. New Journal of Chemistry, 0, , .	2.8	0