

Weizhong Zheng

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

871
citations

687363

13
h-index

677142

22
g-index

24
all docs

24
docs citations

24
times ranked

763
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of deep eutectic solvents on H ₂ SO ₄ -catalyzed alkylation: Combining experiment and molecular dynamics simulation. <i>AIChE Journal</i> , 2022, 68, .	3.6	3
2	Target high-efficiency ionic liquids to promote H ₂ SO ₄ -catalyzed C ₄ alkylation by machine learning. <i>AIChE Journal</i> , 2022, 68, .	3.6	7
3	Screening of Biocompatible MOFs for the Clearance of Indoxyl Sulfate Using GCMC Simulations. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 6618-6627.	3.7	1
4	Understanding the Promotion of Solid Acid-Catalyzed Isobutane Alkylation with Butene by Hydrophilic/Hydrophobic Surface Modification. <i>Journal of Physical Chemistry C</i> , 2021, 125, 1881-1889.	3.1	5
5	Understanding the Confinement Effects and Dynamics of Methylimidazole in Nanoscale Silica Pores. <i>Journal of Physical Chemistry C</i> , 2021, 125, 7421-7430.	3.1	3
6	ZnS-SnS@NC Heterostructure as Robust Lithiophilicity and Sulfiphilicity Mediator toward High-Rate and Long-Life Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2021, 15, 7114-7130.	14.6	419
7	Covalent Organic Frameworks-Enhanced Ionic Conductivity of Polymeric Ionic Liquid-Based Ionic Gel Electrolyte for Lithium Metal Battery. <i>ACS Applied Energy Materials</i> , 2021, 4, 2808-2819.	5.1	30
8	H ₂ SO ₄ -catalyzed isobutane alkylation under low temperatures promoted by long-chain surfactant additives. <i>AIChE Journal</i> , 2021, 67, e17349.	3.6	9
9	Ultrafast Dynamics and Liquid Structure in Mesoporous Silica: Propagation of Surface Effects in a Polar Aprotic Solvent. <i>Journal of Physical Chemistry B</i> , 2021, 125, 10018-10034.	2.6	4
10	Ultrathin double-shell nanotubes of narrow band gap titanium oxide@carbon as efficient polysulfide inhibitors towards advanced lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 19028-19042.	10.3	53
11	Atomic Insights into Robust Pt-Pd Interfacial Site-Boosted Hydrogen Generation. <i>ACS Catalysis</i> , 2020, 10, 11417-11429.	11.2	19
12	Insight into the structure-antibacterial activity of amino cation-based and acetate anion-based ionic liquids from computational interactions with the POPC phospholipid bilayer. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 15573-15581.	2.8	9
13	Experimental and modeling study of isobutane alkylation with C ₄ olefin catalyzed by Brønsted acidic ionic liquid/sulfuric acid. <i>Chemical Engineering Journal</i> , 2019, 377, 119578.	12.7	24
14	Probing interfacial behaviors of Brønsted acidic ionic liquids improved isobutane alkylation with C ₄ olefin catalyzed by sulfuric acid. <i>Chemical Engineering Journal</i> , 2019, 377, 119744.	12.7	23
15	Towards an understanding of the microstructure and interfacial properties of the ionic liquid/sulfuric acid catalyst in liquid-liquid reactions. <i>Chemical Engineering Science</i> , 2019, 205, 287-298.	3.8	10
16	Screening of imidazolium ionic liquids for the isobutane alkylation based on molecular dynamic simulation. <i>Chemical Engineering Science</i> , 2018, 183, 115-122.	3.8	20
17	Microstructures of the Sulfonic Acid-Functionalized Ionic Liquid/Sulfuric Acid and Their Interactions: A Perspective from the Isobutane Alkylation. <i>Journal of Physical Chemistry B</i> , 2018, 122, 1460-1470.	2.6	25
18	Understanding interfacial behaviors of isobutane alkylation with C ₄ olefin catalyzed by sulfuric acid or ionic liquids. <i>AIChE Journal</i> , 2018, 64, 950-960.	3.6	32

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19	Cellulose transformation into methyl glucosides catalyzed by $H_{3}PW_{12}O_{40}$: Enhancement of ionic liquid pretreatment. Canadian Journal of Chemical Engineering, 2018, 96, 1250-1255.	1.7	10
20	Multi-scale modeling of isobutane alkylation with 2-butene using composite ionic liquids as catalyst. Chemical Engineering Science, 2018, 186, 209-218.	3.8	29
21	“Pea-pod-like” nitrogen-doped hollow porous carbon cathode hosts decorated with polar titanium dioxide nanocrystals as efficient polysulfide reservoirs for advanced lithium-sulfur batteries. Journal of Materials Chemistry A, 2018, 6, 18191-18205.	10.3	58
22	Modeling of the interfacial behaviors for the isobutane alkylation with C4 olefin using ionic liquid as catalyst. Chemical Engineering Science, 2017, 166, 42-52.	3.8	35
23	Controllable Preparation of Nanoscale Metal-Organic Frameworks by Ionic Liquid Microemulsions. Industrial & Engineering Chemistry Research, 2017, 56, 5899-5905.	3.7	39
24	Understanding Structure-Property Relationship of $SO_{3}H$ -Functionalized Ionic Liquids together with Sulfuric Acid in Catalyzing Isobutane Alkylation with C4 Olefin. Industrial & Engineering Chemistry Research, 0, , .	3.7	4