

# Weizhong Zheng

## List of Publications by Year in descending order

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papers

871  
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687363

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677142

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	ZnS-SnS@NC Heterostructure as Robust Lithiophilicity and Sulfiphilicity Mediator toward High-Rate and Long-Life Lithium-Sulfur Batteries. ACS Nano, 2021, 15, 7114-7130.	14.6	419
2	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
3	Ultrathin double-shell nanotubes of narrow band gap titanium oxide@carbon as efficient polysulfide inhibitors towards advanced lithium-sulfur batteries. Journal of Materials Chemistry A, 2020, 8, 19028-19042.	10.3	53
4	Controllable Preparation of Nanoscale Metal-Organic Frameworks by Ionic Liquid Microemulsions. Industrial & Engineering Chemistry Research, 2017, 56, 5899-5905.	3.7	39
5	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
6	Understanding interfacial behaviors of isobutane alkylation with C4 olefin catalyzed by sulfuric acid or ionic liquids. AIChE Journal, 2018, 64, 950-960.	3.6	32
7	Covalent Organic Frameworks-Enhanced Ionic Conductivity of Polymeric Ionic Liquid-Based Ionic Gel Electrolyte for Lithium Metal Battery. ACS Applied Energy Materials, 2021, 4, 2808-2819.	5.1	30
8	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
9	Microstructures of the Sulfonic Acid-Functionalized Ionic Liquid/Sulfuric Acid and Their Interactions: A Perspective from the Isobutane Alkylation. Journal of Physical Chemistry B, 2018, 122, 1460-1470.	2.6	25
10	Experimental and modeling study of isobutane alkylation with C4 olefin catalyzed by Brønsted acidic ionic liquid/sulfuric acid. Chemical Engineering Journal, 2019, 377, 119578.	12.7	24
11	Probing interfacial behaviors of Brønsted acidic ionic liquids improved isobutane alkylation with C4 olefin catalyzed by sulfuric acid. Chemical Engineering Journal, 2019, 377, 119744.	12.7	23
12	Screening of imidazolium ionic liquids for the isobutane alkylation based on molecular dynamic simulation. Chemical Engineering Science, 2018, 183, 115-122.	3.8	20
13	Atomic Insights into Robust Pt-PdO Interfacial Site-Boosted Hydrogen Generation. ACS Catalysis, 2020, 10, 11417-11429.	11.2	19
14	Cellulose transformation into methyl glucosides catalyzed by H <sub>3</sub> PW <sub>12</sub> O <sub>40</sub> : Enhancement of ionic liquid pretreatment. Canadian Journal of Chemical Engineering, 2018, 96, 1250-1255.	1.7	10
15	Towards an understanding of the microstructure and interfacial properties of the ionic liquid/sulfuric acid catalyst in liquid-liquid reactions. Chemical Engineering Science, 2019, 205, 287-298.	3.8	10
16	Insight into the structure-antibacterial activity of amino cation-based and acetate anion-based ionic liquids from computational interactions with the POPC phospholipid bilayer. Physical Chemistry Chemical Physics, 2020, 22, 15573-15581.	2.8	9
17	H <sub>2</sub> SO <sub>4</sub> -catalyzed isobutane alkylation under low temperatures promoted by long-chain surfactant additives. AIChE Journal, 2021, 67, e17349.	3.6	9
18	Target high-efficiency ionic liquids to promote H <sub>2</sub> SO <sub>4</sub> -catalyzed C <sub>4</sub> alkylation by machine learning. AIChE Journal, 2022, 68, .	3.6	7

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19	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
20	Understanding Structure-Property Relationship of SO <sub>3</sub> H-Functionalized Ionic Liquids together with Sulfuric Acid in Catalyzing Isobutane Alkylation with C4 Olefin. <i>Industrial &amp; Engineering Chemistry Research</i> , 0, , .	3.7	4
21	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
22	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
23	Effects of deep eutectic solvents on H <sub>2</sub> SO <sub>4</sub> -catalyzed alkylation: Combining experiment and molecular dynamics simulation. <i>AIChE Journal</i> , 2022, 68, .	3.6	3
24	Screening of Biocompatible MOFs for the Clearance of Indoxyl Sulfate Using GCMC Simulations. <i>Industrial &amp; Engineering Chemistry Research</i> , 2022, 61, 6618-6627.	3.7	1