

# Xiaoyang Liu

## 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.

20  
papers

294  
citations

8  
h-index

17  
g-index

22  
ext. papers

422  
ext. citations

4.8  
avg, IF

4.05  
L-index

#	Paper	IF	Citations
20	Charge scaling parameter evaluation for multivalent ionic liquids with fixed point charge force fields. <i>Journal of Ionic Liquids</i> , <b>2022</b> , 2, 100020		1
19	Understanding gas absorption in multivalent ionic liquids via solute-solvent interaction analyses. <i>Chemical Physics Letters</i> , <b>2022</b> , 786, 139204	2.5	1
18	Computational and experimental study of different brines in temperature swing solvent extraction desalination with amine solvents. <i>Desalination</i> , <b>2022</b> , 537, 115863	10.3	1
17	Screening Ionic Liquids Based on Ionic Volume and Electrostatic Potential Analyses. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 3653-3664	3.4	9
16	Solubility Behavior of CO in Ionic Liquids Based on Ionic Polarity Index Analyses. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 3665-3676	3.4	9
15	Understanding Gas Solubility of Pure Component and Binary Mixtures within Multivalent Ionic Liquids from Molecular Simulations. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 8165-8174	3.4	6
14	Scalable, safer and greener syntheses of vinylimidazoles via reactive distillation of hydroxyethylimidazole intermediates. <i>Polymer International</i> , <b>2021</b> , 70, 582-593	3.3	0
13	How Do Ionic Liquids Bold Ionenes? Computational and Experimental Analysis of Imidazolium Polymers Based on Ether and Alkyl Chain Variations Dissolved in an Ionic Liquid. <i>Macromolecules</i> , <b>2021</b> , 54, 1611-1622	5.5	4
12	Synthesis and properties of symmetric glycerol-derived 1,2,3-triethers and 1,3-diether-2-ketones for CO <sub>2</sub> absorption. <i>Chemical Engineering Science</i> , <b>2021</b> , 248, 117150	4.4	2
11	Computational study of the electrostatic potential and charges of multivalent ionic liquid molecules. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 340, 117190	6	2
10	High-salinity brine desalination with amine-based temperature swing solvent extraction: A molecular dynamics study. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 341, 117359	6	2
9	Properties of symmetric 1,3-diethers based on glycerol skeletons for CO <sub>2</sub> absorption. <i>Fluid Phase Equilibria</i> , <b>2020</b> , 521, 112718	2.5	5
8	Synthesis and Properties of 1,2,3-Triethoxypropane: A Glycerol-Derived Green Solvent Candidate. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 20190-20200	3.9	6
7	Molecular insight into the anion effect and free volume effect of CO solubility in multivalent ionic liquids. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 20618-20633	3.6	15
6	Structure and reactivity of single site Ti catalysts for propylene epoxidation. <i>Journal of Catalysis</i> , <b>2019</b> , 377, 419-428	7.3	22
5	Oxygen reduction reaction on Pt(1 1 1), Pt(2 2 1), and Ni/Au1Pt3(2 2 1) surfaces: Probing scaling relationships of reaction energetics and interfacial composition. <i>Chemical Engineering Science</i> , <b>2018</b> , 184, 239-250	4.4	11
4	Hydrodeoxygenation of m-cresol over bimetallic NiFe alloys: Kinetics and thermodynamics insight into reaction mechanism. <i>Journal of Catalysis</i> , <b>2018</b> , 359, 272-286	7.3	63

3	Hydrodeoxygenation of guaiacol over bimetallic Fe-alloyed (Ni, Pt) surfaces: reaction mechanism, transition-state scaling relations and descriptor for predicting C-O bond scission reactivity. <i>Catalysis Science and Technology</i> , <b>2018</b> , 8, 2146-2158	5.5	41
2	CN-graphene supported single-atom catalysts for CO electrochemical reduction reaction: mechanistic insight and catalyst screening. <i>Nanoscale</i> , <b>2018</b> , 10, 15262-15272	7.7	92
1	Glycerol-derived solvents containing two or three distinct functional groups enabled by trifluoroethyl glycidyl ether. <i>AIChE Journal</i> , e17533	3.6	1