Yong Zhang

List of Publications by Year
in descending order

25 papers	1,967 citations	471061 17 h-index	580395 25 g-index
27 all docs	27 docs citations	27 times ranked	1416 citing authors

#	Article	IF	Citations
1	Deep Eutectic Solvents: A Review of Fundamentals and Applications. Chemical Reviews, 2021, 121, 1232-1285.	23.0	1,334
2	Liquid Structure and Transport Properties of the Deep Eutectic Solvent Ethaline. Journal of Physical Chemistry B, 2020, 124, 5251-5264.	1.2	84
3	Solvation Structure and Dynamics of Li⁺ in Ternary Ionic Liquidâ€“Lithium Salt Electrolytes. Journal of Physical Chemistry B, 2019, 123, 516-527.	1.2	62
4	Water-in-Salt LiTFSI Aqueous Electrolytes. 1. Liquid Structure from Combined Molecular Dynamics Simulation and Experimental Studies. Journal of Physical Chemistry B, 2021, 125, 4501-4513.	1.2	52
5	PyLAT: Python LAMMPS Analysis Tools. Journal of Chemical Information and Modeling, 2019, 59, 1301-1305.	2.5	49
6	Water or Anion? Uncovering the Zn²⁺ Solvation Environment in Mixed Zn(TFSI)₂ and LiTFSI Water-in-Salt Electrolytes. ACS Energy Letters, 2021, 6, 3458-3463.	8.8	45
7	Signatures of Ion Pairing and Aggregation in the Vibrational Spectroscopy of Super-Concentrated Aqueous Lithium Bistriflimide Solutions. Journal of Physical Chemistry C, 2020, 124, 3470-3481.	1.5	44
8	Solvation Dynamics of Wet Ethaline: Water is the Magic Component. Journal of Physical Chemistry B, 2021, 125, 8888-8901.	1.2	32
9	Computational Design of New Magnesium Electrolytes with Improved Properties. Journal of Physical Chemistry C, 2017, 121, 16126-16136.	1.5	26
10	Water-In-Salt LiTFSI Aqueous Electrolytes (2): Transport Properties and Li⁺ Dynamics Based on Molecular Dynamics Simulations. Journal of Physical Chemistry B, 2021, 125, 13246-13254.	1.2	26
11	Evaluation and Refinement of the General AMBER Force Field for Nineteen Pure Organic Electrolyte Solvents. Journal of Chemical & Engineering Data, 2018, 63, 3488-3502.	1.0	23
12	Effect of alkyl-group flexibility on the melting point of imidazolium-based ionic liquids. Journal of Chemical Physics, 2020, 153, 044504.	1.2	20
13	Sigma profiles in deep learning: towards a universal molecular descriptor. Chemical Communications, 2022, 58, 5630-5633.	2.2	20
14	Temperature Dependence of Volumetric and Dynamic Properties of Imidazolium-Based Ionic Liquids. Journal of Physical Chemistry B, 2018, 122, 2414-2424.	1.2	19
15	Anion Enhancement at the Liquidâ€“Vacuum Interface of an Ionic Liquid Mixture. Journal of Physical Chemistry C, 2018, 122, 27392-27401.	1.5	19
16	Comparison of fixed charge and polarizable models for predicting the structural, thermodynamic, and transport properties of molten alkali chlorides. Journal of Chemical Physics, 2020, 153, 214502.	1.2	19
17	Impact of anion shape on Li⁺solvation and on transport properties for lithiumâ€“air batteries: a molecular dynamics study. Physical Chemistry Chemical Physics, 2020, 22, 15842-15852.	1.3	19
18	Refined Classical Force Field for Choline Chloride and Ethylene Glycol Mixtures over Wide Composition Range. Journal of Chemical & Engineering Data, 2022, 67, 1864-1871.	1.0	19

#	Article	IF	Citations
19	Exchange-Mediated Transport in Battery Electrolytes: Ultrafast or Ultraslow?. Journal of the American Chemical Society, 2022, 144, 8591-8604.	6.6	18
20	Melting points of alkali chlorides evaluated for a polarizable and non-polarizable model. Journal of Chemical Physics, 2020, 153, 011101.	1.2	15
21	From Networked to Isolated: Observing Water Hydrogen Bonds in Concentrated Electrolytes with Two-Dimensional Infrared Spectroscopy. Journal of Physical Chemistry B, 2022, 126, 5305-5319.	1.2	9
22	Structure of water-in-salt and water-in-bisalt electrolytes. Physical Chemistry Chemical Physics, 2022, 24, 10727-10736.	1.3	5
23	Layer-based thermal migration of an ionic liquid nano-droplet on a graphene surface: a molecular dynamics study. Molecular Simulation, 2020, 46, 829-836.	0.9	3
24	Functionalized Phosphonium Cations Enable Zn Metal Reversibility in Aqueous Electrolytes. ECS Meeting Abstracts, 2021, MA2021-02, 14-14.	0.0	0
25	Liquid Structure and Transport Properties of the Deep Eutectic Solvent Ethaline. ECS Meeting Abstracts, 2020, MA2020-02, 2910-2910.	0.0	0