

# Yong Zhang

## List of Publications by Year in descending order

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Version: 2024-02-01

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  | Refined Classical Force Field for Choline Chloride and Ethylene Glycol Mixtures over Wide Composition Range. <i>Journal of Chemical &amp; Engineering Data</i> , 2022, 67, 1864-1871.                        | 1.0  | 19        |
| 2  | Sigma profiles in deep learning: towards a universal molecular descriptor. <i>Chemical Communications</i> , 2022, 58, 5630-5633.   | 2.2  | 20        |
| 3  | Structure of water-in-salt and water-in-bisalt electrolytes. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 10727-10736.   | 1.3  | 5         |
| 4  | Exchange-Mediated Transport in Battery Electrolytes: Ultrafast or Ultraslow?. <i>Journal of the American Chemical Society</i> , 2022, 144, 8591-8604.  | 6.6  | 18        |
| 5  | From Networked to Isolated: Observing Water Hydrogen Bonds in Concentrated Electrolytes with Two-Dimensional Infrared Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2022, 126, 5305-5319.           | 1.2  | 9         |
| 6  | Deep Eutectic Solvents: A Review of Fundamentals and Applications. <i>Chemical Reviews</i> , 2021, 121, 1232-1285.   | 23.0 | 1,334     |
| 7  | Water-in-Salt LiTFSI Aqueous Electrolytes. 1. Liquid Structure from Combined Molecular Dynamics Simulation and Experimental Studies. <i>Journal of Physical Chemistry B</i> , 2021, 125, 4501-4513.          | 1.2  | 52        |
| 8  | Solvation Dynamics of Wet Ethaline: Water is the Magic Component. <i>Journal of Physical Chemistry B</i> , 2021, 125, 8888-8901.   | 1.2  | 32        |
| 9  | Water or Anion? Uncovering the Zn <sup>2+</sup> Solvation Environment in Mixed Zn(TFSI) <sub>2</sub> and LiTFSI Water-in-Salt Electrolytes. <i>ACS Energy Letters</i> , 2021, 6, 3458-3463.                  | 8.8  | 45        |
| 10 | Functionalized Phosphonium Cations Enable Zn Metal Reversibility in Aqueous Electrolytes. <i>ECS Meeting Abstracts</i> , 2021, MA2021-02, 14-14.   | 0.0  | 0         |
| 11 | Water-In-Salt LiTFSI Aqueous Electrolytes (2): Transport Properties and Li <sup>+</sup> Dynamics Based on Molecular Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , 2021, 125, 13246-13254.   | 1.2  | 26        |
| 12 | Effect of alkyl-group flexibility on the melting point of imidazolium-based ionic liquids. <i>Journal of Chemical Physics</i> , 2020, 153, 044504.   | 1.2  | 20        |
| 13 | Comparison of fixed charge and polarizable models for predicting the structural, thermodynamic, and transport properties of molten alkali chlorides. <i>Journal of Chemical Physics</i> , 2020, 153, 214502. | 1.2  | 19        |
| 14 | Impact of anion shape on Li <sup>+</sup> solvation and on transport properties for lithium-air batteries: a molecular dynamics study. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 15842-15852.    | 1.3  | 19        |
| 15 | Liquid Structure and Transport Properties of the Deep Eutectic Solvent Ethaline. <i>Journal of Physical Chemistry B</i> , 2020, 124, 5251-5264.  | 1.2  | 84        |
| 16 | Layer-based thermal migration of an ionic liquid nano-droplet on a graphene surface: a molecular dynamics study. <i>Molecular Simulation</i> , 2020, 46, 829-836.  | 0.9  | 3         |
| 17 | Melting points of alkali chlorides evaluated for a polarizable and non-polarizable model. <i>Journal of Chemical Physics</i> , 2020, 153, 011101.  | 1.2  | 15        |
| 18 | Signatures of Ion Pairing and Aggregation in the Vibrational Spectroscopy of Super-Concentrated Aqueous Lithium Bistriflimide Solutions. <i>Journal of Physical Chemistry C</i> , 2020, 124, 3470-3481.      | 1.5  | 44        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Liquid Structure and Transport Properties of the Deep Eutectic Solvent Ethaline. ECS Meeting Abstracts, 2020, MA2020-02, 2910-2910.                                     | 0.0 | 0         |
| 20 | PyLAT: Python LAMMPS Analysis Tools. Journal of Chemical Information and Modeling, 2019, 59, 1301-1305.   | 2.5 | 49        |
| 21 | Solvation Structure and Dynamics of Li <sup>+</sup> in Ternary Ionic Liquid–Lithium Salt Electrolytes. Journal of Physical Chemistry B, 2019, 123, 516-527.             | 1.2 | 62        |
| 22 | Temperature Dependence of Volumetric and Dynamic Properties of Imidazolium-Based Ionic Liquids. Journal of Physical Chemistry B, 2018, 122, 2414-2424.                  | 1.2 | 19        |
| 23 | Anion Enhancement at the Liquid–Vacuum Interface of an Ionic Liquid Mixture. Journal of Physical Chemistry C, 2018, 122, 27392-27401.                                   | 1.5 | 19        |
| 24 | 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        |
| 25 | Computational Design of New Magnesium Electrolytes with Improved Properties. Journal of Physical Chemistry C, 2017, 121, 16126-16136.                                   | 1.5 | 26        |