

Hui Wang

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

1,431
citations

394421

19
h-index

526287

27
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27
all docs

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docs citations

27
times ranked

1536
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Synthesis and Properties of NaSICON-type LATP and LAGP Solid Electrolytes. <i>ChemSusChem</i> , 2019, 12, 3713-3725. | 6.8 | 215 |
| 2 | An Air-stable Na ₃ SbS ₄ Superionic Conductor Prepared by a Rapid and Economic Synthetic Procedure. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8551-8555. | 13.8 | 183 |
| 3 | Li ₂ OHCl Crystalline Electrolyte for Stable Metallic Lithium Anodes. <i>Journal of the American Chemical Society</i> , 2016, 138, 1768-1771. | 13.7 | 147 |
| 4 | Fabrication of ultrathin solid electrolyte membranes of β -Li ₃ PS ₄ nanoflakes by evaporation-induced self-assembly for all-solid-state batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 8091-8096. | 10.3 | 128 |
| 5 | New Class of LAGP-Based Solid Polymer Composite Electrolyte for Efficient and Safe Solid-State Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 41837-41844. | 8.0 | 106 |
| 6 | Sodium Ion Transport Mechanisms in Antiperovskite Electrolytes Na ₃ OBr and Na ₄ OI ₂ : An <i>in Situ</i> Neutron Diffraction Study. <i>Inorganic Chemistry</i> , 2016, 55, 5993-5998. | 4.0 | 68 |
| 7 | Rapid and Economic Synthesis of a Li ₇ PS ₆ Solid Electrolyte from a Liquid Approach. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 6015-6021. | 8.0 | 67 |
| 8 | Stable and Flexible Sulfide Composite Electrolyte for High-Performance Solid-State Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 42653-42659. | 8.0 | 52 |
| 9 | Halide doping effect on solvent-synthesized lithium argyrodites Li ₆ PS ₅ X (X= Cl, Br, I) superionic conductors. <i>Journal of Power Sources</i> , 2020, 464, 228158. | 7.8 | 49 |
| 10 | Regulated lithium ionic flux through well-aligned channels for lithium dendrite inhibition in solid-state batteries. <i>Energy Storage Materials</i> , 2020, 31, 344-351. | 18.0 | 48 |
| 11 | Fabrication of Sub-micrometer-thick Solid Electrolyte Membranes of β -Li ₃ PS ₄ via Tiled Assembly of Nanoscale, Plate-like Building Blocks. <i>Advanced Energy Materials</i> , 2018, 8, 1800014. | 19.5 | 47 |
| 12 | An Air-stable Na ₃ SbS ₄ Superionic Conductor Prepared by a Rapid and Economic Synthetic Procedure. <i>Angewandte Chemie</i> , 2016, 128, 8693-8697. | 2.0 | 44 |
| 13 | Tape-Cast Water-Stable NASICON-Type High Lithium Ion Conducting Solid Electrolyte Films for Aqueous Lithium-Air Batteries. <i>Journal of the Electrochemical Society</i> , 2015, 162, A1265-A1271. | 2.9 | 38 |
| 14 | Composite Solid Electrolytes with NASICON-Type LATP and PVdF-HFP for Solid-State Lithium Batteries. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 1494-1500. | 3.7 | 36 |
| 15 | Fast Na diffusion and anharmonic phonon dynamics in superionic Na ₃ PS ₄ . <i>Energy and Environmental Science</i> , 2021, 14, 6554-6563. | 30.8 | 36 |
| 16 | Abnormally Low Activation Energy in Cubic Na ₃ SbS ₄ Superionic Conductors. <i>Chemistry of Materials</i> , 2020, 32, 2264-2271. | 6.7 | 35 |
| 17 | In-situ investigation of pressure effect on structural evolution and conductivity of Na ₃ SbS ₄ superionic conductor. <i>Journal of Power Sources</i> , 2018, 401, 111-116. | 7.8 | 26 |
| 18 | Interface stability of LiCl-rich argyrodite Li ₆ PS ₅ Cl with propylene carbonate boosts high-performance lithium batteries. <i>Electrochimica Acta</i> , 2020, 363, 137128. | 5.2 | 26 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Revealing the Structural Stability and Na-Ion Mobility of 3D Superionic Conductor Na_3Sb_4 at Extremely Low Temperatures. ACS Applied Energy Materials, 2018, 1, 7028-7034. | 5.1 | 20 |
| 20 | Phase-Transition Interlayer Enables High-Performance Solid-State Sodium Batteries with Sulfide Solid Electrolyte. Advanced Functional Materials, 2021, 31, 2101636. | 14.9 | 15 |
| 21 | Highly efficient interface stabilization for ambient-temperature quasi-solid-state sodium metal batteries. Chemical Engineering Journal, 2022, 434, 134679. | 12.7 | 15 |
| 22 | Synthesis of Fluorine-Doped Lithium Argyrodite Solid Electrolytes for Solid-State Lithium Metal Batteries. ACS Applied Materials & Interfaces, 2022, 14, 11483-11492. | 8.0 | 11 |
| 23 | Metal-Organic Framework Separator as a Polyselenide Filter for High-Performance Lithium-Selenium Batteries. ACS Applied Energy Materials, 2021, 4, 13450-13460. | 5.1 | 8 |
| 24 | Lithium-Stable High Lithium Ion Conducting $\text{Li}_{1.4}\text{Al}_{0.4}\text{Ge}_{0.2}\text{Ti}_{1.4}(\text{PO}_4)_3$ Solid Electrolyte. Journal of the Electrochemical Society, 2016, 163, A1822-A1828. | 2.9 | 5 |
| 25 | $\text{Li}_{0.625}\text{Al}_{0.125}\text{Hf}_{0.25}\text{Cl}_{0.75}\text{O}_{0.25}$ Superionic Conductor with Disordered Rock-Salt Structure. ACS Applied Energy Materials, 2021, 4, 7674-7680. | 5.1 | 2 |
| 26 | Visualization of Solid-State Synthesis for Chalcogenide Na Superionic Conductors by in-situ Neutron Diffraction. ChemSusChem, 2021, 14, 5161-5166. | 6.8 | 1 |