Yan-Yan Hu

List of Publications by Year
in descending order

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56	4,764	186265	149698
papers	citations	28 h-index	56 g-index

59	59	59	5516
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Origin of additional capacities in metal oxide lithium-ion battery electrodes. Nature Materials, 2013, 12, 1130-1136.	27.5	635
2	Lithium Ion Pathway within Li₇La₃Zr₂O₁₂â€Polyethylene Oxide Composite Electrolytes. Angewandte Chemie - International Edition, 2016, 55, 12538-12542.	13.8	438
3	New Insights into the Compositional Dependence of Li-Ion Transport in Polymerâ€“Ceramic Composite Electrolytes. ACS Applied Materials & Interfaces, 2018, 10, 4113-4120.	8.0	341
4	Composite Polymer Electrolytes with Li₇La₃Zr₂O₁₂ Garnet-Type Nanowires as Ceramic Fillers: Mechanism of Conductivity Enhancement and Role of Doping and Morphology. ACS Applied Materials & Interfaces, 2017, 9, 21773-21780.	8.0	316
5	Copper-coordinated cellulose ion conductors for solid-state batteries. Nature, 2021, 598, 590-596.	27.8	262
6	Enhanced Surface Interactions Enable Fast Li⁺ Conduction in Oxide/Polymer Composite Electrolyte. Angewandte Chemie - International Edition, 2020, 59, 4131-4137.	13.8	242
7	High-performance all-solid-state batteries enabled by salt bonding to perovskite in poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overloc 18815-18821.	7.1	213
8	Fast Li⁺ Conduction Mechanism and Interfacial Chemistry of a NASICON/Polymer Composite Electrolyte. Journal of the American Chemical Society, 2020, 142, 2497-2505.	13.7	199
9	Lithium-Doping Stabilized High-Performance P2â€“Na_{0.66}Li_{0.18}Fe_{0.12}Mn_{0.7}O₂ Cathode for Sodium Ion Batteries. Journal of the American Chemical Society, 2019, 141, 6680-6689.	13.7	187
10	Sidorenkite (Na₃MnPO₄CO₃): A New Intercalation Cathode Material for Na-Ion Batteries. Chemistry of Materials, 2013, 25, 2777-2786.	6.7	163
11	Local Structure and Dynamics in the Na Ion Battery Positive Electrode Material Na₃V₂(PO₄)₂F₃. Chemistry of Materials, 2014, 26, 2513-2521.	6.7	156
12	Lithium Ion Pathway within Li₇La₃Zr₂O₁₂â€Polyethylene Oxide Composite Electrolytes. Angewandte Chemie, 2016, 128, 12726-12730.	2.0	114
13	Understanding the Low-Voltage Hysteresis of Anionic Redox in Na₂Mn₃O₇. Chemistry of Materials, 2019, 31, 3756-3765.	6.7	112
14	Li-ion transport in a representative ceramicâ€“polymerâ€“plasticizer composite electrolyte: Li₇La₃Zr₂O₁₂â€“polyethylene oxideâ€“tetraethylene glycol dimethyl ether. Journal of Materials Chemistry A, 2017, 5, 18457-18463.	10.3	109
15	Interface-Enabled Ion Conduction in Li₁₀GeP₂S₁₂â€“Poly(ethylene) Tj ETQq1 1 0.784314 rgB	3.1	90
16	Li Distribution Heterogeneity in Solid Electrolyte Li₁₀GeP₂S₁₂ upon Electrochemical Cycling Probed by ⁷Li MRI. Journal of Physical Chemistry Letters, 2018, 9, 1990-1998.	4.6	80
17	Chemical Insights into PbSeâ€“x%HgSe: High Power Factor and Improved Thermoelectric Performance by Alloying with Discordant Atoms. Journal of the American Chemical Society, 2018, 140, 18115-18123.	13.7	80
18	Tunable Lithium-Ion Transport in Mixed-Halide Argyrodites Li_{6â€“x}PS_{5â€“x}ClBr_x: An Unusual Compositional Space. Chemistry of Materials, 2021, 33, 1435-1443.	6.7	78

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19	Fast Ion Conduction and Its Origin in Li_{6â€“x}PS_{5â€“x}Br_{1+x}. Chemistry of Materials, 2020, 32, 3833-3840.	6.7	75
20	Operando EPR for Simultaneous Monitoring of Anionic and Cationic Redox Processes in Li-Rich Metal Oxide Cathodes. Journal of Physical Chemistry Letters, 2017, 8, 4009-4016.	4.6	70
21	Design of high-performance cathode materials with single-phase pathway for sodium ion batteries: A study on P2-Nax(LiyMn1-y)O2 compounds. Journal of Power Sources, 2018, 381, 171-180.	7.8	65
22	Discordant nature of Cd in PbSe: off-centering and coreâ€“shell nanoscale CdSe precipitates lead to high thermoelectric performance. Energy and Environmental Science, 2020, 13, 200-211.	30.8	57
23	Studies of Functional Defects for Fast Naâ€Ion Conduction in Na_{3â^’}_yPS_{4â^’}_xCl_x with a Combined Experimental and Computational Approach. Advanced Functional Materials, 2019, 29, 1807951.	14.9	51
24	Understanding the Conduction Mechanism of the Protonic Conductor CsH2PO4 by Solid-State NMR Spectroscopy. Journal of Physical Chemistry C, 2013, 117, 6504-6515.	3.1	44
25	Lithiation and Delithiation Dynamics of Different Li Sites in Li-Rich Battery Cathodes Studied by Operando Nuclear Magnetic Resonance. Chemistry of Materials, 2017, 29, 8282-8291.	6.7	41
26	Coaxial Carbon Nanotube Supported TiO₂@MoO₂@Carbon Coreâ€“Shell Anode for Ultrafast and High-Capacity Sodium Ion Storage. ACS Nano, 2019, 13, 671-680.	14.6	41
27	Polymer-based hybrid battery electrolytes: theoretical insights, recent advances and challenges. Journal of Materials Chemistry A, 2021, 9, 6050-6069.	10.3	40
28	Radical Dimerization in a Plastic Organic Crystal Leads to Structural and Magnetic Bistability with Wide Thermal Hysteresis. Journal of the American Chemical Society, 2019, 141, 17989-17994.	13.7	31
29	Experimental and theoretical evidence for hydrogen doping in polymer solution-processed indium gallium oxide. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 18231-18239.	7.1	31
30	Self-assembled calcium phosphate nanocomposites using block copolypeptide templates. Soft Matter, 2009, 5, 4311.	2.7	30
31	Enhanced Surface Interactions Enable Fast Li⁺ Conduction in Oxide/Polymer Composite Electrolyte. Angewandte Chemie, 2020, 132, 4160-4166.	2.0	27
32	Frequency-Agile Low-Temperature Solution-Processed Alumina Dielectrics for Inorganic and Organic Electronics Enhanced by Fluoride Doping. Journal of the American Chemical Society, 2020, 142, 12440-12452.	13.7	27
33	Structures of Delithiated and Degraded LiFeBO₃, and Their Distinct Changes upon Electrochemical Cycling. Inorganic Chemistry, 2014, 53, 6585-6595.	4.0	26
34	Synthesis and characterizations of highly conductive and stable electrolyte Li10P3S12I. Energy Storage Materials, 2019, 22, 397-401.	18.0	24
35	Deep Eutectic Solvent with Prussian Blue and Tungsten Oxide for Green and Low-Cost Electrochromic Devices. ACS Applied Electronic Materials, 2019, 1, 1038-1045.	4.3	24
36	On the origin of high ionic conductivity in Na-doped SrSiO₃. Chemical Science, 2016, 7, 3667-3675.	7.4	23

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37	Aqueous Route Synthesis of Mesoporous <scp><scp>ZrO</scp></scp>₂ by Agarose Templation. Journal of the American Ceramic Society, 2012, 95, 3455-3462.	3.8	19
38	Structure, defects and thermal stability of delithiated olivine phosphates. Journal of Materials Chemistry, 2012, 22, 20482.	6.7	18
39	In situ synthesis and in operando NMR studies of a high-performance Ni₅P₄-nanosheet anode. Journal of Materials Chemistry A, 2018, 6, 22240-22247.	10.3	18
40	Recent Advances in Solid-State Nuclear Magnetic Resonance Techniques for Materials Research. Annual Review of Materials Research, 2020, 50, 493-520.	9.3	18
41	Broadband â€œInfinite-Speedâ€•Magic-Angle Spinning NMR Spectroscopy. Journal of the American Chemical Society, 2009, 131, 8390-8391.	13.7	17
42	Real-time monitoring of the lithiation process in organic electrode 7,7,8,8-tetracyanoquinodimethane by in situ EPR. Journal of Energy Chemistry, 2021, 60, 9-15.	12.9	17
43	Stackingâ€Fault Enhanced Oxygen Redox in Li₂MnO₃. Advanced Energy Materials, 2022, 12, .	19.5	17
44	Enhanced rate performance of Li4Ti5O12 anodes with bridged grain boundaries. Journal of Power Sources, 2017, 354, 172-178.	7.8	14
45	Alterations in Molecular Composition of Humic Substances from Eucalypt Plantation Soils Assessed by ¹³Câ€NMR Spectroscopy. Soil Science Society of America Journal, 2013, 77, 293-306.	2.2	13
46	Improving the electrochemical performance of Li₄Ti₅O₁₂ anode by phosphorus reduction at a relatively low temperature. Chemical Communications, 2018, 54, 14120-14123.	4.1	11
47	Structure and Properties of Cs₇(H₄PO₄)(H₂PO₄)₈: A New Superprotonic Solid Acid Featuring the Unusual Polycation (H₄PO₄)⁺. Journal of the American Chemical Society, 2020, 142, 19992-20001.	13.7	9
48	Enhanced Ion Conduction in Li_{2.5}Zn_{0.25}PS₄ via Anion Doping. Chemistry of Materials, 2020, 32, 3036-3042.	6.7	9
49	Lithium Thiostannate Spinels: Air-Stable Cubic Semiconductors. Chemistry of Materials, 2021, 33, 2080-2089.	6.7	6
50	Combustion Synthesis and Polymer Doping of Metal Oxides for High-Performance Electronic Circuitry. Accounts of Chemical Research, 2022, 55, 429-441.	15.6	6
51	Interrupted anion-network enhanced Li+-ion conduction in Li3+yPO4Iy. Energy Storage Materials, 2022, 51, 88-96.	18.0	6
52	Microscopic Insights into the Reconstructive Phase Transition of KNaNbOF₅ with ¹⁹F NMR Spectroscopy. Chemistry of Materials, 2020, 32, 5715-5722.	6.7	5
53	Phase Behavior and Superprotonic Conductivity in the System (1â€“x)CsH₂PO₄ â€“ xH₃PO₄: Discovery of Off-Stoichiometric Î±-[Cs_{1â€“x}H_x]H₂PO₄. Chemistry of Materials, 2022, 34, 1809-1820.	6.7	5
54	Nanoscale Encapsulation of Hybrid Perovskites Using Hybrid Atomic Layer Deposition. Journal of Physical Chemistry Letters, 2022, 13, 4082-4089.	4.6	5

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55	Phase transitions and potential ferroelectricity in noncentrosymmetric KNaNbOF5. Physical Review Materials, 2021, 5, .	2.4	1
56	Fluoride Doping in Crystalline and Amorphous Indium Oxide Semiconductors. Chemistry of Materials, 0, , .	6.7	1