

Yan-Yan Hu

List of Publications by Year in descending order

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56
papers

4,764
citations

186265
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docs citations

59
times ranked

5516
citing authors

#	ARTICLE	IF	CITATIONS
1	Combustion Synthesis and Polymer Doping of Metal Oxides for High-Performance Electronic Circuitry. <i>Accounts of Chemical Research</i> , 2022, 55, 429-441.	15.6	6
2	Phase Behavior and Superprotonic Conductivity in the System $(1-x)CsH_2PO_4 \cdot xH_3PO_4$: Discovery of Off-Stoichiometric $[Cs_{1-x}H_x]H_2PO_4$. <i>Chemistry of Materials</i> , 2022, 34, 1809-1820.	6.7	5
3	Stacking-Fault Enhanced Oxygen Redox in Li_2MnO_3 . <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	17
4	Nanoscale Encapsulation of Hybrid Perovskites Using Hybrid Atomic Layer Deposition. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 4082-4089.	4.6	5
5	Interrupted anion-network enhanced Li ⁺ -ion conduction in $Li_{3+y}PO_4$. <i>Energy Storage Materials</i> , 2022, 51, 88-96.	18.0	6
6	Polymer-based hybrid battery electrolytes: theoretical insights, recent advances and challenges. <i>Journal of Materials Chemistry A</i> , 2021, 9, 6050-6069.	10.3	40
7	Tunable Lithium-Ion Transport in Mixed-Halide Argyrodites $Li_6PS_5ClBr_x$: An Unusual Compositional Space. <i>Chemistry of Materials</i> , 2021, 33, 1435-1443.	6.7	78
8	Lithium Thiostannate Spinel: Air-Stable Cubic Semiconductors. <i>Chemistry of Materials</i> , 2021, 33, 2080-2089.	6.7	6
9	Real-time monitoring of the lithiation process in organic electrode 7,7,8,8-tetracyanoquinodimethane by in situ EPR. <i>Journal of Energy Chemistry</i> , 2021, 60, 9-15.	12.9	17
10	Copper-coordinated cellulose ion conductors for solid-state batteries. <i>Nature</i> , 2021, 598, 590-596.	27.8	262
11	Phase transitions and potential ferroelectricity in noncentrosymmetric $KNaNbOF_5$. <i>Physical Review Materials</i> , 2021, 5, .	2.4	1
12	Fast Li ⁺ Conduction Mechanism and Interfacial Chemistry of a NASICON/Polymer Composite Electrolyte. <i>Journal of the American Chemical Society</i> , 2020, 142, 2497-2505.	13.7	199
13	Discordant nature of Cd in PbSe: off-centering and core-shell nanoscale CdSe precipitates lead to high thermoelectric performance. <i>Energy and Environmental Science</i> , 2020, 13, 200-211.	30.8	57
14	Enhanced Surface Interactions Enable Fast Li ⁺ Conduction in Oxide/Polymer Composite Electrolyte. <i>Angewandte Chemie</i> , 2020, 132, 4160-4166.	2.0	27
15	Enhanced Surface Interactions Enable Fast Li ⁺ Conduction in Oxide/Polymer Composite Electrolyte. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 4131-4137.	13.8	242
16	Structure and Properties of $Cs_7(H_4PO_4)(H_2PO_4)_8$: A New Superprotonic Solid Acid Featuring the Unusual Polycation $(H_4PO_4)_x(H_2PO_4)_{8-x}$. <i>Journal of the American Chemical Society</i> , 2020, 142, 19992-20001.	13.7	9
17	Experimental and theoretical evidence for hydrogen doping in polymer solution-processed indium gallium oxide. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 18231-18239.	7.1	31
18	Recent Advances in Solid-State Nuclear Magnetic Resonance Techniques for Materials Research. <i>Annual Review of Materials Research</i> , 2020, 50, 493-520.	9.3	18

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19	Frequency-Agile Low-Temperature Solution-Processed Alumina Dielectrics for Inorganic and Organic Electronics Enhanced by Fluoride Doping. <i>Journal of the American Chemical Society</i> , 2020, 142, 12440-12452.	13.7	27
20	Enhanced Ion Conduction in $\text{Li}_{2.5}\text{Zn}_{0.25}\text{PS}_4$ via Anion Doping. <i>Chemistry of Materials</i> , 2020, 32, 3036-3042.	6.7	9
21	Fast Ion Conduction and Its Origin in $\text{Li}_6\text{PS}_5\text{Br}$. <i>Chemistry of Materials</i> , 2020, 32, 3833-3840.	6.7	75
22	Microscopic Insights into the Reconstructive Phase Transition of KNaNbOF_{19} with ^19F NMR Spectroscopy. <i>Chemistry of Materials</i> , 2020, 32, 5715-5722.	6.7	5
23	Synthesis and characterizations of highly conductive and stable electrolyte $\text{Li}_{10}\text{P}_3\text{S}_{12}$. <i>Energy Storage Materials</i> , 2019, 22, 397-401.	18.0	24
24	Radical Dimerization in a Plastic Organic Crystal Leads to Structural and Magnetic Bistability with Wide Thermal Hysteresis. <i>Journal of the American Chemical Society</i> , 2019, 141, 17989-17994.	13.7	31
25	High-performance all-solid-state batteries enabled by salt bonding to perovskite in poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 18815-18821.	7.1	213
26	Interface-Enabled Ion Conduction in $\text{Li}_{10}\text{GeP}_2\text{S}_{12}$ "Poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 3.1 90	3.1	90
27	Deep Eutectic Solvent with Prussian Blue and Tungsten Oxide for Green and Low-Cost Electrochromic Devices. <i>ACS Applied Electronic Materials</i> , 2019, 1, 1038-1045.	4.3	24
28	Understanding the Low-Voltage Hysteresis of Anionic Redox in $\text{Na}_2\text{Mn}_3\text{O}_7$. <i>Chemistry of Materials</i> , 2019, 31, 3756-3765.	6.7	112
29	Lithium-Doping Stabilized High-Performance $\text{P}_2\text{Na}_{0.66}\text{Li}_{0.18}\text{Fe}_{0.12}\text{Mn}_{0.7}\text{O}_2$ Cathode for Sodium Ion Batteries. <i>Journal of the American Chemical Society</i> , 2019, 141, 6680-6689.	13.7	187
30	Coaxial Carbon Nanotube Supported TiO_2 @ MoO_2 @Carbon Core "Shell Anode for Ultrafast and High-Capacity Sodium Ion Storage. <i>ACS Nano</i> , 2019, 13, 671-680.	14.6	41
31	Studies of Functional Defects for Fast Na^+ Ion Conduction in $\text{Na}_3\text{YPS}_4\text{Cl}_x$ with a Combined Experimental and Computational Approach. <i>Advanced Functional Materials</i> , 2019, 29, 1807951.	14.9	51
32	Design of high-performance cathode materials with single-phase pathway for sodium ion batteries: A study on $\text{P}_2\text{-Na}_x(\text{Li}_y\text{Mn}_{1-y})\text{O}_2$ compounds. <i>Journal of Power Sources</i> , 2018, 381, 171-180.	7.8	65
33	New Insights into the Compositional Dependence of Li-Ion Transport in Polymer "Ceramic Composite Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 4113-4120.	8.0	341
34	Li Distribution Heterogeneity in Solid Electrolyte $\text{Li}_{10}\text{GeP}_2\text{S}_{12}$ upon Electrochemical Cycling Probed by ^7Li MRI. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 1990-1998.	4.6	80
35	Improving the electrochemical performance of $\text{Li}_4\text{Ti}_5\text{O}_{12}$ anode by phosphorus reduction at a relatively low temperature. <i>Chemical Communications</i> , 2018, 54, 14120-14123.	4.1	11
36	Chemical Insights into PbSe "HgSe: High Power Factor and Improved Thermoelectric Performance by Alloying with Discordant Atoms. <i>Journal of the American Chemical Society</i> , 2018, 140, 18115-18123.	13.7	80

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37	<i>In situ</i> synthesis and <i>in operando</i> NMR studies of a high-performance Ni ₅ P ₄ -nanosheet anode. <i>Journal of Materials Chemistry A</i> , 2018, 6, 22240-22247.	10.3	18
38	Enhanced rate performance of Li ₄ Ti ₅ O ₁₂ anodes with bridged grain boundaries. <i>Journal of Power Sources</i> , 2017, 354, 172-178.	7.8	14
39	Composite Polymer Electrolytes with Li ₇ La ₃ Zr ₂ O ₁₂ Garnet-Type Nanowires as Ceramic Fillers: Mechanism of Conductivity Enhancement and Role of Doping and Morphology. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 21773-21780.	8.0	316
40	Lithiation and Delithiation Dynamics of Different Li Sites in Li-Rich Battery Cathodes Studied by <i>Operando</i> Nuclear Magnetic Resonance. <i>Chemistry of Materials</i> , 2017, 29, 8282-8291.	6.7	41
41	Li-ion transport in a representative ceramic-polymer-plasticizer composite electrolyte: Li ₇ La ₃ Zr ₂ O ₁₂ -polyethylene oxide-tetraethylene glycol dimethyl ether. <i>Journal of Materials Chemistry A</i> , 2017, 5, 18457-18463.	10.3	109
42	Operando EPR for Simultaneous Monitoring of Anionic and Cationic Redox Processes in Li-Rich Metal Oxide Cathodes. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 4009-4016.	4.6	70
43	On the origin of high ionic conductivity in Na-doped SrSiO ₃ . <i>Chemical Science</i> , 2016, 7, 3667-3675.	7.4	23
44	Lithium Ion Pathway within Li ₇ La ₃ Zr ₂ O ₁₂ -Polyethylene Oxide Composite Electrolytes. <i>Angewandte Chemie</i> , 2016, 128, 12726-12730.	2.0	114
45	Lithium Ion Pathway within Li ₇ La ₃ Zr ₂ O ₁₂ -Polyethylene Oxide Composite Electrolytes. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12538-12542.	13.8	438
46	Local Structure and Dynamics in the Na Ion Battery Positive Electrode Material Na ₃ V ₂ (PO ₄) ₂ F ₃ . <i>Chemistry of Materials</i> , 2014, 26, 2513-2521.	6.7	156
47	Structures of Delithiated and Degraded LiFeBO ₃ , and Their Distinct Changes upon Electrochemical Cycling. <i>Inorganic Chemistry</i> , 2014, 53, 6585-6595.	4.0	26
48	Sidorenkite (Na ₃ MnPO ₄ CO ₃): A New Intercalation Cathode Material for Na-Ion Batteries. <i>Chemistry of Materials</i> , 2013, 25, 2777-2786.	6.7	163
49	Origin of additional capacities in metal oxide lithium-ion battery electrodes. <i>Nature Materials</i> , 2013, 12, 1130-1136.	27.5	635
50	Understanding the Conduction Mechanism of the Protonic Conductor CsH ₂ PO ₄ by Solid-State NMR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2013, 117, 6504-6515.	3.1	44
51	Alterations in Molecular Composition of Humic Substances from Eucalypt Plantation Soils Assessed by ¹³ C-NMR Spectroscopy. <i>Soil Science Society of America Journal</i> , 2013, 77, 293-306.	2.2	13
52	Aqueous Route Synthesis of Mesoporous ZrO ₂ by Agarose Templation. <i>Journal of the American Ceramic Society</i> , 2012, 95, 3455-3462.	3.8	19
53	Structure, defects and thermal stability of delithiated olivine phosphates. <i>Journal of Materials Chemistry</i> , 2012, 22, 20482.	6.7	18
54	Broadband ∞ -Speed-Magic-Angle Spinning NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2009, 131, 8390-8391.	13.7	17

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55	Self-assembled calcium phosphate nanocomposites using block copolypeptide templates. <i>Soft Matter</i> , 2009, 5, 4311.	2.7	30
56	Fluoride Doping in Crystalline and Amorphous Indium Oxide Semiconductors. <i>Chemistry of Materials</i> , 0, , .	6.7	1