

Xiao Huang

List of Publications by Year in descending order

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32
papers

1,815
citations

331670

21
h-index

434195

31
g-index

32
all docs

32
docs citations

32
times ranked

1617
citing authors

#	ARTICLE	IF	CITATIONS
1	An <i>in situ</i> element permeation constructed high endurance Li ⁺ /LLZO interface at high current densities. <i>Journal of Materials Chemistry A</i> , 2018, 6, 18853-18858.	10.3	157
2	Acid induced conversion towards a robust and lithiophilic interface for Li ⁺ /Li ₇ La ₃ Zr ₂ O ₁₂ solid-state batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14565-14574.	10.3	138
3	Highly stable garnet solid electrolyte based Li-S battery with modified anodic and cathodic interfaces. <i>Energy Storage Materials</i> , 2018, 15, 282-290.	18.0	121
4	Pre-modified Li ₃ PS ₄ based interphase for lithium anode towards high-performance Li-S battery. <i>Energy Storage Materials</i> , 2018, 11, 16-23.	18.0	119
5	Manipulating Li ₂ O atmosphere for sintering dense Li ₇ La ₃ Zr ₂ O ₁₂ solid electrolyte. <i>Energy Storage Materials</i> , 2019, 22, 207-217.	18.0	114
6	A gel-ceramic multi-layer electrolyte for long-life lithium sulfur batteries. <i>Chemical Communications</i> , 2016, 52, 1637-1640.	4.1	113
7	A Li-Garnet composite ceramic electrolyte and its solid-state Li-S battery. <i>Journal of Power Sources</i> , 2018, 382, 190-197.	7.8	111
8	Two-step sintering strategy to prepare dense Li-Garnet electrolyte ceramics with high Li ⁺ conductivity. <i>Ceramics International</i> , 2018, 44, 5660-5667.	4.8	82
9	Overcoming the abnormal grain growth in Ga-doped Li ₇ La ₃ Zr ₂ O ₁₂ to enhance the electrochemical stability against Li metal. <i>Ceramics International</i> , 2019, 45, 14991-14996.	4.8	82
10	Preparation of dense Ta-LLZO/MgO composite Li-ion solid electrolyte: Sintering, microstructure, performance and the role of MgO. <i>Journal of Energy Chemistry</i> , 2019, 39, 8-16.	12.9	74
11	Electronic and ionic co-conductive coating on the separator towards high-performance lithium-sulfur batteries. <i>Journal of Power Sources</i> , 2016, 306, 347-353.	7.8	72
12	Method Using Water-Based Solvent to Prepare Li ₇ La ₃ Zr ₂ O ₁₂ Solid Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 17147-17155.	8.0	58
13	A hybrid electrolyte for long-life semi-solid-state lithium sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 13971-13975.	10.3	52
14	Phase transformation and grain-boundary segregation in Al-Doped Li ₇ La ₃ Zr ₂ O ₁₂ ceramics. <i>Ceramics International</i> , 2021, 47, 22768-22775.	4.8	50
15	Sintering, micro-structure and Li ⁺ conductivity of Li ₇ La ₃ Zr ₂ Nb _{0.7} O ₁₂ /MgO (x=0.2-0.7) Li-Garnet composite ceramics. <i>Ceramics International</i> , 2019, 45, 56-63.	4.8	48
16	An ion-conductive Li _{1.5} Al _{0.5} Ge _{1.5} (PO ₄) ₃ -based composite protective layer for lithium metal anode in lithium-sulfur batteries. <i>Journal of Power Sources</i> , 2018, 377, 36-43.	7.8	47
17	Influence of La ₂ Zr ₂ O ₇ Additive on Densification and Li ⁺ Conductivity for Ta-Doped Li ₇ La ₃ Zr ₂ O ₁₂ Garnet. <i>Jom</i> , 2016, 68, 2593-2600.	1.9	46
18	Ni ₂ CeO ₂ Heterostructures in Li ⁺ Batteries: A Balancing Act between Adsorption and Catalytic Conversion of Polysulfide. <i>Advanced Science</i> , 2022, 9, e2105538.	11.2	45

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19	Synthesis of Ga-doped Li ₇ La ₃ Zr ₂ O ₁₂ solid electrolyte with high Li ⁺ ion conductivity. <i>Ceramics International</i> , 2021, 47, 2123-2130.	4.8	33
20	Constructing stable Li-solid electrolyte interphase to achieve dendrites-free solid-state battery: A nano-interlayer/Li pre-reduction strategy. <i>Nano Research</i> , 2022, 15, 7180-7189.	10.4	28
21	None-Mother-Powder Method to Prepare Dense Li-Garnet Solid Electrolytes with High Critical Current Density. <i>ACS Applied Energy Materials</i> , 0, , .	5.1	27
22	Rapid preparation and performances of garnet electrolyte with sintering aids for solid-state Li ⁺ S battery. <i>Ceramics International</i> , 2021, 47, 18196-18204.	4.8	25
23	Chiral Ligand-Induced Structural Transformation of Low-Dimensional Hybrid Perovskite for Circularly Polarized Photodetection. <i>Chemistry of Materials</i> , 2022, 34, 2955-2962.	6.7	24
24	From protonation & Li-rich contamination to grain-boundary segregation: Evaluations of solvent-free vs. wet routes on preparing Li ₇ La ₃ Zr ₂ O ₁₂ solid electrolyte. <i>Journal of Energy Chemistry</i> , 2022, 73, 223-239.	12.9	24
25	A rational design of garnet-type Li ₇ La ₃ Zr ₂ O ₁₂ with ultrahigh moisture stability. <i>Energy Storage Materials</i> , 2022, 49, 278-290.	18.0	21
26	Searching for low-cost Li MO compounds for compensating Li-loss in sintering of Li-Garnet solid electrolyte. <i>Journal of Materiomics</i> , 2019, 5, 221-228.	5.7	20
27	Developing Preparation Craft Platform for Solid Electrolytes Containing Volatile Components: Experimental Study of Competition between Lithium Loss and Densification in Li ₇ La ₃ Zr ₂ O ₁₂ . <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 33340-33354.	8.0	20
28	Efficient Mutual-Compensating Li-Loss Strategy toward Highly Conductive Garnet Ceramics for Li-Metal Solid-State Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 56054-56063.	8.0	19
29	Reduced free-standing Co ₃ O ₄ @Ni cathode for lithium ⁺ oxygen batteries with enhanced electrochemical performance. <i>RSC Advances</i> , 2016, 6, 16263-16267.	3.6	16
30	High-performance lithium storage in an ultrafine manganese fluoride nanorod anode with enhanced electrochemical activation based on conversion reaction. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 3780-3787.	2.8	15
31	Controlled construction of 3D hierarchical manganese fluoride nanostructures via an oleylamine-assisted solvothermal route with high performance for rechargeable lithium ion batteries. <i>RSC Advances</i> , 2016, 6, 27170-27176.	3.6	10
32	Protected Sulfur Cathode with Mixed Conductive Coating Layer for Lithium Sulfur Battery. <i>Jom</i> , 2016, 68, 2601-2606.	1.9	4