## Xiang-Xin Guo

List of Publications by Year in descending order

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Version: 2024-02-01

45 papers

4,413 citations

30 h-index 243625 44 g-index

46 all docs

46 docs citations

46 times ranked

3102 citing authors

#	Article	IF	CITATIONS
1	In situ Observation of Li Depositionâ€Induced Cracking in Garnet Solid Electrolytes. Energy and Environmental Materials, 2022, 5, 524-532.	12.8	36
2	Evaluating Interfacial Stability in Solid-State Pouch Cells via Ultrasonic Imaging. ACS Energy Letters, 2022, 7, 650-658.	17.4	32
3	Comparative Study of Stability against Moisture for Solid Garnet Electrolytes with Different Dopants. Energies, 2022, 15, 3206.	3.1	8
4	LiNi <sub>0.6</sub> Co <sub>0.2</sub> Mn <sub>0.2</sub> O <sub>2</sub> Cathodes Coated with Dual-Conductive Polymers for High-Rate and Long-Life Solid-State Lithium Batteries. ACS Applied Materials & Diagrams (2022), 14, 24929-24937.	8.0	13
5	Ionic–electronic dual-conductive polymer modified LiCoO <sub>2</sub> cathodes for solid lithium batteries. Chemical Communications, 2022, 58, 8638-8641.	4.1	16
6	Insight into synergetic effect of bulk doping and boundary engineering on conductivity of NASICON electrolytes for solid-state Na batteries. Applied Physics Letters, 2022, 121, 033901.	3.3	7
7	Rational Design of Mixed Electronicâ€lonic Conducting Tiâ€Doping Li <sub>7</sub> La <sub>3</sub> Zr <sub>2</sub> O <sub>12</sub> for Lithium Dendrites Suppression. Advanced Functional Materials, 2021, 31, 2001918.	14.9	57
8	A Multilayer Ceramic Electrolyte for Allâ€Solidâ€State Li Batteries. Angewandte Chemie - International Edition, 2021, 60, 3781-3790.	13.8	71
9	A Multilayer Ceramic Electrolyte for Allâ€Solidâ€State Li Batteries. Angewandte Chemie, 2021, 133, 3825-3834.	2.0	13
10	A flexible electron-blocking interfacial shield for dendrite-free solid lithium metal batteries. Nature Communications, 2021, 12, 176.	12.8	136
11	Deciphering the Enigma of Li <sub>2</sub> CO <sub>3</sub> Oxidation Using a Solid-State Li–Air Battery Configuration. ACS Applied Materials & Interfaces, 2021, 13, 14321-14326.	8.0	13
12	Combination of Organic and Inorganic Electrolytes for Composite Membranes Toward Applicable Solid Lithium Batteries. Chemical Research in Chinese Universities, 2021, 37, 246-253.	2.6	8
13	Clear Representation of Surface Pathway Reactions at Ag Nanowire Cathodes in All-Solid Li–O <sub>2</sub> Batteries. ACS Applied Materials & Interfaces, 2021, 13, 39157-39164.	8.0	17
14	Ultrastable Anode/Electrolyte Interface in Solid-State Lithium-Metal Batteries Using LiCu <i><sub></sub></i> Nanowire Network Host. ACS Applied Materials & Interfaces, 2021, 13, 42822-42831.	8.0	14
15	Dual-interface reinforced flexible solid garnet batteries enabled by in-situ solidified gel polymer electrolytes. Nano Energy, 2021, 90, 106498.	16.0	74
16	Design of a mixed conductive garnet/Li interface for dendrite-free solid lithium metal batteries. Energy and Environmental Science, 2020, 13, 127-134.	30.8	269
17	Preparation and Performance Optimization of Two-Component Waterborne Polyurethane Locomotive Coating. Coatings, 2020, 10, 4.	2.6	3
18	Li <sub>2</sub> CO <sub>3</sub> : A Critical Issue for Developing Solid Garnet Batteries. ACS Energy Letters, 2020, 5, 252-262.	17.4	177

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19	Different Behaviors of Metal Penetration in Na and Li Solid Electrolytes. ACS Applied Materials & Samp; Interfaces, 2020, 12, 53781-53787.	8.0	12
20	Comprehensive Investigation into Garnet Electrolytes Toward Application-Oriented Solid Lithium Batteries. Electrochemical Energy Reviews, 2020, 3, 656-689.	25.5	99
21	Polydopamine Coated Lithium Lanthanum Titanate in Bilayer Membrane Electrolytes for Solid Lithium Batteries. ACS Applied Materials & Samp; Interfaces, 2020, 12, 46231-46238.	8.0	38
22	Polydopamine-Coated Garnet Particles Homogeneously Distributed in Poly(propylene carbonate) for the Conductive and Stable Membrane Electrolytes of Solid Lithium Batteries. ACS Applied Materials & Lithium Batterianes, 2020, 12, 46162-46169.	8.0	41
23	Matchmaker of Marriage between a Li Metal Anode and NASICON-Structured Solid-State Electrolyte: Plastic Crystal Electrolyte and Three-Dimensional Host Structure. ACS Applied Materials & Electrolyte Interfaces, 2020, 12, 44754-44761.	8.0	22
24	Dynamics of the Garnet/Li Interface for Dendrite-Free Solid-State Batteries. ACS Energy Letters, 2020, 5, 2156-2164.	17.4	76
25	Solid Polymer Electrolytes with Flexible Framework of SiO2 Nanofibers for Highly Safe Solid Lithium Batteries. Polymers, 2020, 12, 1324.	4.5	54
26	Surface coating of LiMn <sub>2</sub> O <sub>4</sub> cathodes with garnet electrolytes for improving cycling stability of solid lithium batteries. Journal of Materials Chemistry A, 2020, 8, 4252-4256.	10.3	40
27	Electrochemical Behavior of NH4F-Pretreated Li1.25Ni0.20Fe0.13Co0.33Mn0.33O2 Cathodes for Lithium-ion Batteries. Applied Sciences (Switzerland), 2020, 10, 1021.	2.5	0
28	A Highâ€Performance Carbonateâ€Free Lithium   Garnet Interface Enabled by a Trace Amount of Sodium. Advanced Materials, 2020, 32, e2000575.	21.0	58
29	Superionic Conductors <i>via</i> Bulk Interfacial Conduction. Journal of the American Chemical Society, 2020, 142, 18035-18041.	13.7	101
30	Defectâ€Rich Nitrogen Doped Co <sub>3</sub> O <sub>4</sub> /C Porous Nanocubes Enable Highâ€Efficiency Bifunctional Oxygen Electrocatalysis. Advanced Functional Materials, 2019, 29, 1902875.	14.9	233
31	In-situ formed Li2CO3-free garnet/Li interface by rapid acid treatment for dendrite-free solid-state batteries. Nano Energy, 2019, 61, 119-125.	16.0	281
32	Solid Garnet Batteries. Joule, 2019, 3, 1190-1199.	24.0	352
33	The Ab Initio Calculations on the Areal Specific Resistance of Liâ€Metal/Li <sub>7</sub> La <sub>3</sub> Zr <sub>2</sub> O <sub>12</sub> Interphase. Advanced Theory and Simulations, 2019, 2, 1900028.	2.8	25
34	Rational Design of Hierarchical "Ceramicâ€inâ€Polymerâ€iand "Polymerâ€in eramicâ€ielectrolytes for Dendriteâ€Free Solidâ€State Batteries. Advanced Energy Materials, 2019, 9, 1804004.	19.5	422
35	An efficient multi-doping strategy to enhance Li-ion conductivity in the garnet-type solid electrolyte Li <sub>7</sub> La <sub>3</sub> Zr <sub>2</sub> O <sub>12</sub> . Journal of Materials Chemistry A, 2019, 7, 8589-8601.	10.3	124
36	Nanocomposite intermediate layers formed by conversion reaction of SnO2 for Li/garnet/Li cycle stability. Journal of Power Sources, 2019, 420, 15-21.	7.8	61

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37	Anion-immobilized polymer electrolyte achieved by cationic metal-organic framework filler for dendrite-free solid-state batteries. Energy Storage Materials, 2019, 18, 59-67.	18.0	237
38	In Situ Formed Shields Enabling Li <sub>2</sub> CO <sub>3</sub> -Free Solid Electrolytes: A New Route to Uncover the Intrinsic Lithiophilicity of Garnet Electrolytes for Dendrite-Free Li-Metal Batteries. ACS Applied Materials & Dendrite-Free Li-Metal Batteries.	8.0	147
39	Lithium Expulsion from the Solid-State Electrolyte Li <sub>6.4</sub> La <sub>3</sub> Zr <sub>1.4</sub> Ta <sub>0.6</sub> O <sub>12</sub> by Controlled Electron Injection in a SEM. ACS Applied Materials & Samp; Interfaces, 2018, 10, 5978-5983.	8.0	38
40	Sustainable Interfaces between Si Anodes and Garnet Electrolytes for Room-Temperature Solid-State Batteries. ACS Applied Materials & Samp; Interfaces, 2018, 10, 2185-2190.	8.0	54
41	Drawing a Soft Interface: An Effective Interfacial Modification Strategy for Garnet-Type Solid-State Li Batteries. ACS Energy Letters, 2018, 3, 1212-1218.	17.4	321
42	Formation of self-limited, stable and conductive interfaces between garnet electrolytes and lithium anodes for reversible lithium cycling in solid-state batteries. Journal of Materials Chemistry A, 2018, 6, 11463-11470.	10.3	186
43	Cycle stability of lithium/garnet/lithium cells with different intermediate layers. Rare Metals, 2018, 37, 473-479.	7.1	48
44	All solid state lithium batteries based on lamellar garnet-type ceramic electrolytes. Journal of Power Sources, 2015, 300, 24-28.	7.8	204
45	Densification and ionic-conduction improvement of lithium garnet solid electrolytes by flowing oxygen sintering. Journal of Power Sources, 2014, 248, 642-646.	7.8	175