

Xiaoxiong Xu

List of Publications by Year in descending order

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5,262
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94381

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times ranked

4816
citing authors

#	ARTICLE	IF	CITATIONS
1	All-Solid-State Lithium Batteries with Sulfide Electrolytes and Oxide Cathodes. <i>Electrochemical Energy Reviews</i> , 2021, 4, 101-135.	13.1	227
2	Formation of Excellent Cathode/Electrolyte Interface with UV-Cured Polymer Electrolyte through In Situ Strategy. <i>Journal of the Electrochemical Society</i> , 2021, 168, 020511.	1.3	10
3	Liquid phase therapy to solid electrolyte-electrode interface in solid-state Li metal batteries: A review. <i>Energy Storage Materials</i> , 2020, 24, 75-84.	9.5	199
4	In Situ Coating of $\text{Li}_7\text{P}_3\text{S}_{11}$ Electrolyte on CuCo_2S_4 /Graphene Nanocomposite as a High-Performance Cathode for All-Solid-State Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 33810-33816.	4.0	19
5	Co_3S_4 @ $\text{Li}_7\text{P}_3\text{S}_{11}$ Hexagonal Platelets as Cathodes with Superior Interfacial Contact for All-Solid-State Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 14079-14086.	4.0	41
6	High air-stability and superior lithium ion conduction of $\text{Li}_3+3\text{P1-Zn S4-O}$ by aliovalent substitution of ZnO for all-solid-state lithium batteries. <i>Energy Storage Materials</i> , 2019, 17, 266-274.	9.5	114
7	Titanium Dioxide Doping toward High-Lithium-Ion-Conducting $\text{Li}_{1.5}\text{Al}_{0.5}\text{Ge}_{1.5}(\text{PO}_4)_3$ Glass-Ceramics for All-Solid-State Lithium Batteries. <i>ACS Applied Energy Materials</i> , 2019, 2, 7299-7305.	2.5	18
8	UV-cured polymer electrolyte for $\text{LiNi}_{0.85}\text{Co}_{0.05}\text{Al}_{0.1}\text{O}_2$ /Li solid state battery working at ambient temperature. <i>Energy Storage Materials</i> , 2019, 22, 337-345.	9.5	82
9	Core-Shell $\text{Fe}_{1-x}\text{S}@_{\text{Na}_{2.9}\text{PS}_{3.95}\text{Se}_{0.05}}$ Nanorods for Room Temperature All-Solid-State Sodium Batteries with High Energy Density. <i>ACS Nano</i> , 2018, 12, 2809-2817.	7.3	68
10	Highly Crystalline Layered VS_2 Nanosheets for All-Solid-State Lithium Batteries with Enhanced Electrochemical Performances. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 10053-10063.	4.0	94
11	Sulfide solid electrolytes for all-solid-state lithium batteries: Structure, conductivity, stability and application. <i>Energy Storage Materials</i> , 2018, 14, 58-74.	9.5	403
12	High ion conductive Sb_2O_5 -doped Li_3PS_4 with excellent stability against Li for all-solid-state lithium batteries. <i>Journal of Power Sources</i> , 2018, 389, 140-147.	4.0	90
13	Interface Re-Engineering of $\text{Li}_{10}\text{GeP}_2\text{S}_{12}$ Electrolyte and Lithium anode for All-Solid-State Lithium Batteries with Ultralong Cycle Life. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 2556-2565.	4.0	220
14	Nanoscaled Na_3PS_4 Solid Electrolyte for All-Solid-State FeS_2 /Na Batteries with Ultrahigh Initial Coulombic Efficiency of 95% and Excellent Cyclic Performances. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 12300-12304.	4.0	64
15	FeS nanosheets as positive electrodes for all-solid-state lithium batteries. <i>Solid State Ionics</i> , 2018, 318, 60-64.	1.3	36
16	A large-size, bipolar-stacked and high-safety solid-state lithium battery with integrated electrolyte and cathode. <i>Journal of Power Sources</i> , 2018, 394, 57-66.	4.0	65
17	Nickel sulfide anchored carbon nanotubes for all-solid-state lithium batteries with enhanced rate capability and cycling stability. <i>Journal of Materials Chemistry A</i> , 2018, 6, 12098-12105.	5.2	76
18	Superior lithium ion conduction of polymer electrolyte with comb-like structure via solvent-free copolymerization for bipolar all-solid-state lithium battery. <i>Journal of Materials Chemistry A</i> , 2018, 6, 13438-13447.	5.2	80

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19	Proton enhanced dynamic battery chemistry for aprotic lithium-oxygen batteries. <i>Nature Communications</i> , 2017, 8, 14308.	5.8	104
20	High-Performance All-Solid-State Lithium-Sulfur Batteries Enabled by Amorphous Sulfur-Coated Reduced Graphene Oxide Cathodes. <i>Advanced Energy Materials</i> , 2017, 7, 1602923.	10.2	331
21	Fe ₃ S ₄ @Li ₇ P ₃ S ₁₁ nanocomposites as cathode materials for all-solid-state lithium batteries with improved energy density and low cost. <i>Journal of Materials Chemistry A</i> , 2017, 5, 23919-23925.	5.2	69
22	An advanced construction strategy of all-solid-state lithium batteries with excellent interfacial compatibility and ultralong cycle life. <i>Journal of Materials Chemistry A</i> , 2017, 5, 16984-16993.	5.2	168
23	Facile synthesis of Co ₉ S ₈ nanosheets for lithium ion batteries with enhanced rate capability and cycling stability. <i>New Journal of Chemistry</i> , 2017, 41, 9184-9191.	1.4	24
24	Hybrid solid electrolytes with excellent electrochemical properties and their applications in all-solid-state cells. <i>Ionics</i> , 2017, 23, 2603-2611.	1.2	27
25	NiS Nanorods as Cathode Materials for All-Solid-State Lithium Batteries with Excellent Rate Capability and Cycling Stability. <i>ChemElectroChem</i> , 2016, 3, 764-769.	1.7	40
26	Structure Integrity Endowed by a Ti-Containing Surface Layer towards Ultrastable LiNi _{0.8} Co _{0.15} Al _{0.05} O ₂ for All-Solid-State Lithium Batteries. <i>Journal of the Electrochemical Society</i> , 2016, 163, A1530-A1534.	1.3	43
27	Cu ₂ ZnSnS ₄ /graphene nanocomposites for ultrafast, long life all-solid-state lithium batteries using lithium metal anode. <i>Energy Storage Materials</i> , 2016, 4, 59-65.	9.5	85
28	One-pot preparation of new copolymer electrolytes with tunable network structure for all-solid-state lithium battery. <i>Journal of Power Sources</i> , 2016, 331, 322-331.	4.0	65
29	A promising PEO/LAGP hybrid electrolyte prepared by a simple method for all-solid-state lithium batteries. <i>Solid State Ionics</i> , 2016, 295, 65-71.	1.3	205
30	High-Energy All-Solid-State Lithium Batteries with Ultralong Cycle Life. <i>Nano Letters</i> , 2016, 16, 7148-7154.	4.5	309
31	A new composite solid electrolyte PEO/Li ₁₀ GeP ₂ S ₁₂ /SN for all-solid-state lithium battery. <i>Electrochimica Acta</i> , 2016, 210, 905-914.	2.6	185
32	All-solid-state lithium batteries with inorganic solid electrolytes: Review of fundamental science. <i>Chinese Physics B</i> , 2016, 25, 018802.	0.7	169
33	Insights on the fundamental lithium storage behavior of all-solid-state lithium batteries containing the LiNi _{0.8} Co _{0.15} Al _{0.05} O ₂ cathode and sulfide electrolyte. <i>Journal of Power Sources</i> , 2016, 307, 724-730.	4.0	67
34	Lithium Superionic Conducting Oxy sulfide Solid Electrolyte with Excellent Stability against Lithium Metal for All-Solid-State Cells. <i>Journal of the Electrochemical Society</i> , 2016, 163, A96-A101.	1.3	103
35	A new solid polymer electrolyte incorporating Li ₁₀ GeP ₂ S ₁₂ into a polyethylene oxide matrix for all-solid-state lithium batteries. <i>Journal of Power Sources</i> , 2016, 301, 47-53.	4.0	371
36	Influence of phosphorus sources on lithium ion conducting performance in the system of Li ₂ O-Al ₂ O ₃ -GeO ₂ -P ₂ O ₅ glass-ceramics. <i>Solid State Ionics</i> , 2015, 270, 61-65.	1.3	32

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37	MoS ₂ nanoflowers consisting of nanosheets with a controllable interlayer distance as high-performance lithium ion battery anodes. RSC Advances, 2015, 5, 7938-7943.	1.7	109
38	Influence of the Li ⁺ Ge ⁺ P ⁺ S based solid electrolytes on NCA electrochemical performances in all-solid-state lithium batteries. Solid State Ionics, 2015, 274, 8-11.	1.3	70
39	Synthesis and electrochemical properties of LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ cathodes in lithium-ion and all-solid-state lithium batteries. Ionics, 2015, 21, 43-49.	1.2	13
40	A 3D porous architecture of Si/graphene nanocomposite as high-performance anode materials for Li-ion batteries. Journal of Materials Chemistry, 2012, 22, 7724.	6.7	193
41	Co ₃ O ₄ nanowires as high capacity anode materials for lithium ion batteries. Journal of Alloys and Compounds, 2012, 521, 95-100.	2.8	101
42	Si/C nanocomposite anode materials by freeze-drying with enhanced electrochemical performance in lithium-ion batteries. Journal of Solid State Electrochemistry, 2012, 16, 2733-2738.	1.2	14
43	Tantalum oxide nanomesh as self-standing one nanometre thick electrolyte. Energy and Environmental Science, 2011, 4, 3509.	15.6	64
44	Porous hematite (α-Fe ₂ O ₃) nanorods as an anode material with enhanced rate capability in lithium-ion batteries. Electrochemistry Communications, 2011, 13, 1439-1442.	2.3	75
45	Dense nanostructured solid electrolyte with high Li-ion conductivity by spark plasma sintering technique. Materials Research Bulletin, 2008, 43, 2334-2341.	2.7	97
46	Lithium Ion-Conducting Glass-Ceramics of Li _{1.5} Al _{0.5} Ge _{1.5} (PO ₄) ₃ ·xLi ₂ O (x=0.0-0.20) with Good Electrical and Electrochemical Properties. Journal of the American Ceramic Society, 2007, 90, 2802-2806.	1.9	223