

Xia-Yin Yao

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98
papers

4,324
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37
h-index

64
g-index

105
ext. papers

6,071
ext. citations

10.6
avg, IF

6.1
L-index

#	Paper	IF	Citations
98	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	8.9	273
97	High-Energy All-Solid-State Lithium Batteries with Ultralong Cycle Life. <i>Nano Letters</i> , 2016 , 16, 7148-7154	11.5	243
96	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	21.8	241
95	Sulfide solid electrolytes for all-solid-state lithium batteries: Structure, conductivity, stability and application. <i>Energy Storage Materials</i> , 2018 , 14, 58-74	19.4	228
94	A 3D porous architecture of Si/graphene nanocomposite as high-performance anode materials for Li-ion batteries. <i>Journal of Materials Chemistry</i> , 2012 , 22, 7724		182
93	Interface Re-Engineering of LiGePS Electrolyte and Lithium anode for All-Solid-State Lithium Batteries with Ultralong Cycle Life. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 2556-2565	9.5	148
92	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	13	128
91	All-solid-state lithium batteries with inorganic solid electrolytes: Review of fundamental science. <i>Chinese Physics B</i> , 2016 , 25, 018802	1.2	117
90	Mechanical and Thermal Properties of Epoxy Resin Nanocomposites Reinforced with Graphene Oxide. <i>Polymer-Plastics Technology and Engineering</i> , 2012 , 51, 251-256		116
89	Lithium/Sulfide All-Solid-State Batteries using Sulfide Electrolytes. <i>Advanced Materials</i> , 2021 , 33, e2000754	25.1	105
88	Co ₃ O ₄ nanowires as high capacity anode materials for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2012 , 521, 95-100	5.7	92
87	MoS ₂ nanoflowers consisting of nanosheets with a controllable interlayer distance as high-performance lithium ion battery anodes. <i>RSC Advances</i> , 2015 , 5, 7938-7943	3.7	90
86	Lithium Superionic Conducting Oxysulfide Solid Electrolyte with Excellent Stability against Lithium Metal for All-Solid-State Cells. <i>Journal of the Electrochemical Society</i> , 2016 , 163, A96-A101	3.9	82
85	Synthesis and electrochemical properties of layered lithium transition metal oxides. <i>Journal of Materials Chemistry</i> , 2011 , 21, 2544-2549		69
84	Toward High Energy Density All Solid-State Sodium Batteries with Excellent Flexibility. <i>Advanced Energy Materials</i> , 2020 , 10, 1903698	21.8	67
83	In-situ preparation of poly(ethylene oxide)/Li ₃ PS ₄ hybrid polymer electrolyte with good nanofiller distribution for rechargeable solid-state lithium batteries. <i>Journal of Power Sources</i> , 2018 , 387, 72-80	8.9	67
82	Porous hematite (Fe ₂ O ₃) nanorods as an anode material with enhanced rate capability in lithium-ion batteries. <i>Electrochemistry Communications</i> , 2011 , 13, 1439-1442	5.1	67

81	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	19.4	67
80	Rational design of multi-channel continuous electronic/ionic conductive networks for room temperature vanadium tetrasulfide-based all-solid-state lithium-sulfur batteries. <i>Nano Energy</i> , 2019 , 57, 771-782	17.1	65
79	All-Solid-State Lithium Batteries with Sulfide Electrolytes and Oxide Cathodes. <i>Electrochemical Energy Reviews</i> , 2021 , 4, 101-135	29.3	65
78	High ion conductive Sb ₂ O ₅ -doped Li ₃ PS ₄ with excellent stability against Li for all-solid-state lithium batteries. <i>Journal of Power Sources</i> , 2018 , 389, 140-147	8.9	62
77	Highly Crystalline Layered VS Nanosheets for All-Solid-State Lithium Batteries with Enhanced Electrochemical Performances. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 10053-10063	9.5	61
76	High air-stability and superior lithium ion conduction of Li ₃ +3P1-Zn S ₄ -O by aliovalent substitution of ZnO for all-solid-state lithium batteries. <i>Energy Storage Materials</i> , 2019 , 17, 266-274	19.4	61
75	10 μm-Thick High-Strength Solid Polymer Electrolytes with Excellent Interface Compatibility for Flexible All-Solid-State Lithium-Metal Batteries. <i>Advanced Materials</i> , 2021 , 33, e2100353	24	61
74	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	13	55
73	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	13	53
72	Ultrastable All-Solid-State Sodium Rechargeable Batteries. <i>ACS Energy Letters</i> , 2020 , 5, 2835-2841	20.1	53
71	Influence of the Li ₇ Te ₈ P ₈ S ₁₆ based solid electrolytes on NCA electrochemical performances in all-solid-state lithium batteries. <i>Solid State Ionics</i> , 2015 , 274, 8-11	3.3	50
70	Nanoscaled NaPS Solid Electrolyte for All-Solid-State FeS/Na Batteries with Ultrahigh Initial Coulombic Efficiency of 95% and Excellent Cyclic Performances. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 12300-12304	9.5	49
69	CNTs@S composite as cathode for all-solid-state lithium-sulfur batteries with ultralong cycle life. <i>Journal of Energy Chemistry</i> , 2020 , 40, 151-155	12	49
68	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	13	48
67	Facile synthesis of porous CoFe ₂ O ₄ nanosheets for lithium-ion battery anodes with enhanced rate capability and cycling stability. <i>RSC Advances</i> , 2014 , 4, 27488-27492	3.7	48
66	Core-Shell FeS@NaPSSe Nanorods for Room Temperature All-Solid-State Sodium Batteries with High Energy Density. <i>ACS Nano</i> , 2018 , 12, 2809-2817	16.7	46
65	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	8.9	44
64	Densified LiPSCl Nanorods with High Ionic Conductivity and Improved Critical Current Density for All-Solid-State Lithium Batteries. <i>Nano Letters</i> , 2020 , 20, 6660-6665	11.5	41

63	Dopamine-assisted one-pot synthesis of zinc ferrite-embedded porous carbon nanospheres for ultrafast and stable lithium ion batteries. <i>Chemical Communications</i> , 2014 , 50, 14597-600	5.8	40
62	Polydopamine-assisted synthesis of hollow NiCo ₂ O ₄ nanospheres as high-performance lithium ion battery anodes. <i>RSC Advances</i> , 2014 , 4, 37928	3.7	39
61	Polydopamine-derived porous nanofibers as host of ZnFe ₂ O ₄ nanoneedles: towards high-performance anodes for lithium-ion batteries. <i>RSC Advances</i> , 2015 , 5, 13315-13323	3.7	36
60	Quasi-Ionic Liquid Enabling Single-Phase Poly(vinylidene fluoride)-Based Polymer Electrolytes for Solid-State LiNi Co Mn O Li Batteries with Rigid-Flexible Coupling Interphase.. <i>Small Methods</i> , 2021 , 5, e2100262	12.8	36
59	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	3.9	35
58	Poly(vinylidene fluoride) nanofibrous mats with covalently attached SiO ₂ nanoparticles as an ionic liquid host: enhanced ion transport for electrochromic devices and lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 16040-16049	13	34
57	Grain-boundary-resistance-less Na ₃ SbS _{4-x} Sex solid electrolytes for all-solid-state sodium batteries. <i>Nano Energy</i> , 2019 , 66, 104109	17.1	32
56	NASICON-structured Na _{3.1} Zr _{1.95} Mg _{0.05} Si ₂ PO ₁₂ solid electrolyte for solid-state sodium batteries. <i>Rare Metals</i> , 2018 , 37, 480-487	5.5	32
55	Flexible Sulfide Electrolyte Thin Membrane with Ultrahigh Ionic Conductivity for All-Solid-State Lithium Batteries. <i>Nano Letters</i> , 2021 , 21, 5233-5239	11.5	32
54	Na ₃ Zr ₂ Si ₂ PO ₁₂ : A Stable Na ⁺ -Ion Solid Electrolyte for Solid-State Batteries. <i>ACS Applied Energy Materials</i> , 2020 , 3, 7427-7437	6.1	31
53	Bio-inspired Nanoscaled Electronic/Ionic Conduction Networks for Room-Temperature All-Solid-State Sodium-Sulfur Battery. <i>Nano Today</i> , 2020 , 33, 100860	17.9	31
52	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	4.3	31
51	Sulfur-Embedded FeS as a High-Performance Cathode for Room Temperature All-Solid-State Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 18519-18525	9.5	30
50	Zinc ferrite nanorods coated with polydopamine-derived carbon for high-rate lithium ion batteries. <i>Electrochimica Acta</i> , 2014 , 146, 464-471	6.7	29
49	Bifunctional Interphase-Enabled Li ₁₀ GeP ₂ S ₁₂ Electrolytes for Lithium Sulfur Battery. <i>ACS Energy Letters</i> , 2021 , 6, 862-868	20.1	29
48	Transitional Metal Catalytic Pyrite Cathode Enables Ultrastable Four-Electron-Based All-Solid-State Lithium Batteries. <i>ACS Nano</i> , 2019 , 13, 9551-9560	16.7	28
47	Ultra-thin free-standing sulfide solid electrolyte film for cell-level high energy density all-solid-state lithium batteries. <i>Energy Storage Materials</i> , 2021 , 38, 249-254	19.4	28
46	Construction of 3D Electronic/Ionic Conduction Networks for All-Solid-State Lithium Batteries. <i>Small</i> , 2019 , 15, e1905849	11	26

45	Engineering the interface between LiCoO ₂ and Li ₁₀ GeP ₂ S ₁₂ solid electrolytes with an ultrathin Li ₂ CoTi ₃ O ₈ interlayer to boost the performance of all-solid-state batteries. <i>Energy and Environmental Science</i> , 2021 , 14, 437-450	35.4	26
44	Molybdenum trisulfide based anionic redox driven chemistry enabling high-performance all-solid-state lithium metal batteries. <i>Energy Storage Materials</i> , 2019 , 23, 168-180	19.4	25
43	FeS nanosheets as positive electrodes for all-solid-state lithium batteries. <i>Solid State Ionics</i> , 2018 , 318, 60-64	3.3	25
42	Self-Formed Electronic/Ionic Conductive Fe S @ S @ 0.9Na SbS ?0.1NaI Composite for High-Performance Room-Temperature All-Solid-State Sodium-Sulfur Battery. <i>Small</i> , 2020 , 16, e2001574 ¹¹	11	23
41	CoS@LiPS Hexagonal Platelets as Cathodes with Superior Interfacial Contact for All-Solid-State Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 14079-14086	9.5	22
40	Non-isothermal crystallization kinetics of poly (lactic acid)/graphene nanocomposites. <i>Journal of Polymer Engineering</i> , 2013 , 33, 163-171	1.4	20
39	Improving the Interfacial Stability between Lithium and Solid-State Electrolyte via Dipole-Structured Lithium Layer Deposited on Graphene Oxide. <i>Advanced Science</i> , 2020 , 7, 2000237	13.6	16
38	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	3.6	16
37	Poly(ethylene glycol) brush on Li _{6.4} La ₃ Zr _{1.4} Ta _{0.6} O ₁₂ towards intimate interfacial compatibility in composite polymer electrolyte for flexible all-solid-state lithium metal batteries. <i>Journal of Power Sources</i> , 2021 , 498, 229934	8.9	16
36	Harnessing the Volume Expansion of MoS Anode by Structure Engineering to Achieve High Performance Beyond Lithium-Based Rechargeable Batteries. <i>Advanced Materials</i> , 2021 , 33, e2106232	24	16
35	PEDOT-PSS coated VS ₂ nanosheet anodes for high rate and ultrastable lithium-ion batteries. <i>New Journal of Chemistry</i> , 2019 , 43, 1681-1687	3.6	14
34	Passivation of the Cathode-Electrolyte Interface for 5 V-Class All-Solid-State Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 28083-28090	9.5	14
33	Superior lithium-stable Li ₇ P ₂ S ₈ I solid electrolyte for all-solid-state lithium batteries. <i>Journal of Power Sources</i> , 2021 , 491, 229565	8.9	14
32	Preparation of new composite polymer electrolyte for long cycling all-solid-state lithium battery. <i>Ionics</i> , 2019 , 25, 907-916	2.7	13
31	Selenium-Infused Ordered Mesoporous Carbon for Room-Temperature All-Solid-State Lithium-Selenium Batteries with Ultrastable Cyclability. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 16541-16547	9.5	13
30	Si/C nanocomposite anode materials by freeze-drying with enhanced electrochemical performance in lithium-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2012 , 16, 2733-2738	2.6	13
29	Synergistic Effects of Plasticizer and 3D Framework toward High-Performance Solid Polymer Electrolyte for Room-Temperature Solid-State Lithium Batteries. <i>ACS Applied Energy Materials</i> , 2021 , 4, 4129-4137	6.1	12
28	High conductivity polymer electrolyte with comb-like structure via a solvent-free UV-cured method for large-area ambient all-solid-state lithium batteries. <i>Journal of Materiomics</i> , 2019 , 5, 195-203	6.7	11

27	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. <i>Ionics</i> , 2015 , 21, 43-49	2.7	11
26	Cobalt-doped pyrite for Na ₁₁ Sn ₂ Sb ₅ 11.5Se _{0.5} electrolyte based all-solid-state sodium battery with enhanced capacity. <i>Journal of Power Sources</i> , 2020 , 449, 227515	8.9	10
25	Poly(methyl methacrylate)-Based Gel Polymer Electrolyte for High-Performance Solid State LiO ₂ Battery with Enhanced Cycling Stability. <i>ACS Applied Energy Materials</i> , 2021 , 4, 3975-3982	6.1	9
24	Titanium Dioxide Doping toward High-Lithium-Ion-Conducting Li _{1.5} Al _{0.5} Ge _{1.5} (PO ₄) ₃ Glass-Ceramics for All-Solid-State Lithium Batteries. <i>ACS Applied Energy Materials</i> , 2019 , 2, 7299-7305	6.1	8
23	Effective Strategy for Enhancing the Performance of LiTiO Anodes in Lithium-Ion Batteries: Magnetron Sputtering Molybdenum Disulfide-Optimized Interface Architecture. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 26880-26890	9.5	8
22	Ultrasmall LiS-Carbon Nanotube Nanocomposites for High-Rate All-Solid-State Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 18666-18672	9.5	8
21	A Robust Li-Intercalated Interlayer with Strong Electron Withdrawing Ability Enables Durable and High-Rate Li Metal Anode. <i>ACS Energy Letters</i> , 1594-1603	20.1	8
20	Na ₁₀ SnSb ₂ S ₁₂ : A nanosized air-stable solid electrolyte for all-solid-state sodium batteries. <i>Chemical Engineering Journal</i> , 2021 , 420, 127692	14.7	7
19	Dipolar and catalytic effects of an Fe ₃ O ₄ based nitrogen-doped hollow carbon sphere framework for high performance lithium sulfur batteries. <i>Inorganic Chemistry Frontiers</i> , 2021 , 8, 1771-1778	6.8	7
18	Understanding LiI-LiBr Catalyst Activity for Solid State LiS/S Reactions in an All-Solid-State Lithium Battery. <i>Nano Letters</i> , 2021 , 21, 8488-8494	11.5	6
17	Coating of LiPS Electrolyte on CuCoS/Graphene Nanocomposite as a High-Performance Cathode for All-Solid-State Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 33810-33816	9.5	6
16	Gravity-driven Poly(ethylene glycol)@Li _{1.5} Al _{0.5} Ge _{1.5} (PO ₄) ₃ asymmetric solid polymer electrolytes for all-solid-state lithium batteries. <i>Journal of Power Sources</i> , 2022 , 518, 230756	8.9	5
15	Catalytic Mo ₂ C decorated N-doped honeycomb-like carbon network for high stable lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , 2021 , 133683	14.7	5
14	Formed Li-Ag Alloy Interface Enables LiGePS-Based All-Solid-State Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 50076-50082	9.5	5
13	Surface Engineered Li Metal Anode for All-Solid-State Lithium Metal Batteries with High Capacity. <i>ChemElectroChem</i> , 2021 , 8, 386-389	4.3	5
12	Flexible Composite Solid Electrolyte with 80 wt% Na _{3.4} Zr _{1.9} Nb _{0.1} Si _{2.2} P _{0.8} O ₁₂ for Solid-State Sodium Batteries. <i>Energy Storage Materials</i> , 2022 ,	19.4	4
11	Air exposure towards stable Li/Li ₁₀ GeP ₂ S ₁₂ interface for all-solid-state lithium batteries		4
10	Tungsten and oxygen co-doped stable tetragonal phase Na ₃ SbS ₄ with ultrahigh ionic conductivity for all-solid-state sodium batteries. <i>Applied Materials Today</i> , 2022 , 27, 101448	6.6	3

9	Prussian blue analog $\text{Co}_3[\text{Co}(\text{CN})_6]_2$ as a cathode material for lithium-sulfur batteries. <i>Applied Physics Letters</i> , 2020 , 117, 163905	3.4	2
8	Liquid-Phase Synthesis of Nanosized $\text{Na}_{11}\text{Sn}_2\text{PS}_{12}$ Solid Electrolytes for Room Temperature All-Solid-State Sodium Batteries. <i>ACS Applied Energy Materials</i> , 2021 , 4, 1467-1473	6.1	2
7	High ionic conductivity and stable phase $\text{Na}_{11.5}\text{Sn}_2\text{Sb}_{0.5}\text{Ti}_{0.5}\text{S}_{12}$ for all-solid-state sodium batteries. <i>Journal of Power Sources</i> , 2021 , 512, 230485	8.9	2
6	Electrochemical Polishing: An Effective Strategy for Eliminating Li Dendrites. <i>Advanced Functional Materials</i> , 2020 , 30, 2203652	15.6	2
5	Synergistic effect of cobalt, nitrogen-codoped hollow carbon sphere hosts for high performance lithium sulfur batteries. <i>New Journal of Chemistry</i> , 2020 , 44, 5965-5971	3.6	1
4	Wet-Milling Synthesis of Superionic Lithium Argyrodite Electrolytes with Different Concentrations of Lithium Vacancy. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 46644-46649	9.5	1
3	Bimetallic Hexagonal Layered NiCo Sulfides with High Electrochemical Performance for All-Solid-State Lithium Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 17061-17067	8.3	1
2	Sodium Ion Batteries: Toward High Energy Density All Solid-State Sodium Batteries with Excellent Flexibility (Adv. Energy Mater. 12/2020). <i>Advanced Energy Materials</i> , 2020 , 10, 2070055	21.8	0
1	One-dimensional $\text{NiS-CNT@Li}_7\text{P}_3\text{S}_{11}$ nanocomposites as ionic/electronic additives for LiCoO_2 based all-solid-state lithium batteries. <i>Electrochimica Acta</i> , 2021 , 398, 139280	6.7	0