

Jia Xie

List of Publications by Year in descending order

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105
papers

6,725
citations

93792

39
h-index

73587

79
g-index

111
all docs

111
docs citations

111
times ranked

8412
citing authors

#	ARTICLE	IF	CITATIONS
1	Tuning Solid Interfaces via Varying Electrolyte Distributions Enables High-Performance Solid-State Batteries. <i>Energy and Environmental Materials</i> , 2023, 6, .	7.3	36
2	Dual-Functional Organotelluride Additive for Highly Efficient Sulfur Redox Kinetics and Lithium Regulation in Lithium-Sulfur Batteries. <i>Energy and Environmental Materials</i> , 2023, 6, .	7.3	20
3	<scp>Anion-Regulated Weakly Solvating</scp> Electrolytes for <scp>High-Voltage</scp> Lithium Metal Batteries. <i>Energy and Environmental Materials</i> , 2023, 6, .	7.3	17
4	Revealing milling durations and sintering temperatures on conductivity and battery performances of Li _{2.25} Zr _{0.75} Fe _{0.25} Cl ₆ electrolyte. <i>Chinese Chemical Letters</i> , 2023, 34, 107544.	4.8	6
5	Improvement of stability and solid-state battery performances of annealed 70Li ₂ S-30P ₂ S ₅ electrolytes by additives. <i>Rare Metals</i> , 2022, 41, 106-114.	3.6	38
6	Synthetic optimization and application of Li-argyrodite Li ₆ PS ₅ I in solid-state battery at different temperatures. <i>Rare Metals</i> , 2022, 41, 798-805.	3.6	18
7	A model cathode for mechanistic study of organosulfide electrochemistry in Li-organosulfide batteries. <i>Journal of Energy Chemistry</i> , 2022, 66, 440-447.	7.1	15
8	Preparation of SiO ₂ @TiO ₂ @N-doped carbon composite using chitin as carbon precursor for high-performance lithium storage. <i>Journal of Alloys and Compounds</i> , 2022, 891, 162076.	2.8	11
9	Chlorine-rich lithium argyrodite enabling solid-state batteries with capabilities of high voltage, high rate, low-temperature and ultralong cyclability. <i>Chemical Engineering Journal</i> , 2022, 430, 132896.	6.6	71
10	Tuning ionic conductivity to enable all-climate solid-state Li-S batteries with superior performances. <i>Materials Advances</i> , 2022, 3, 1047-1054.	2.6	15
11	Low concentration electrolyte with non-solvating cosolvent enabling high-voltage lithium metal batteries. <i>IScience</i> , 2022, 25, 103490.	1.9	17
12	Unraveling the crystallinity on battery performances of chlorine-rich argyrodite electrolytes. <i>Journal of Power Sources</i> , 2022, 520, 230890.	4.0	24
13	Scalable fabrication of solid-state batteries through high-energy electronic beam. <i>Chemical Engineering Journal</i> , 2022, 431, 134323.	6.6	19
14	Iodine-rich lithium argyrodite with enhanced ionic conductivity for solid-state batteries. <i>Scripta Materialia</i> , 2022, 210, 114475.	2.6	11
15	Enhancing Moisture and Electrochemical Stability of the Li _{5.5} PS _{4.5} Cl _{1.5} Electrolyte by Oxygen Doping. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 4179-4185.	4.0	44
16	Diluted High-Concentration Electrolyte Based on Phosphate for High-Performance Lithium-Metal Batteries. <i>Batteries and Supercaps</i> , 2022, 5, .	2.4	12
17	Enhanced homogeneity of electrochemical reaction via low tortuosity enabling high-voltage nickel-rich layered oxide thick-electrode. <i>Energy Storage Materials</i> , 2022, 46, 443-451.	9.5	23
18	Fluorobenzene diluted low-density electrolyte for high-energy density and high-performance lithium-sulfur batteries. <i>Journal of Energy Chemistry</i> , 2022, 68, 752-761.	7.1	19

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19	Achieving superior ionic conductivity of Li ₆ PS ₅ I via introducing LiCl. <i>Solid State Ionics</i> , 2022, 377, 115871.	1.3	12
20	Enhancing the Reversibility of Lithium Cobalt Oxide Phase Transition in Thick Electrode via Low Tortuosity Design. <i>Nano Letters</i> , 2022, 22, 2429-2436.	4.5	20
21	Unraveling the Conversion Evolution on Solid-State Na ⁺ /SeS ₂ Battery via In Situ TEM. <i>Advanced Science</i> , 2022, 9, e2200744.	5.6	25
22	Electrospun Sulfurized Polyacrylonitrile Nanofibers for Long-Term Cycling Stability and High-Rate Lithium-Sulfur Batteries. <i>ACS Applied Energy Materials</i> , 2022, 5, 5212-5218.	2.5	13
23	1,3,5-Trifluorobenzene and fluorobenzene co-assisted electrolyte with thermodynamic and interfacial stabilities for high-voltage lithium metal battery. <i>Energy Storage Materials</i> , 2022, 48, 393-402.	9.5	34
24	Non-flammable fluorobenzene-diluted highly concentrated electrolytes enable high-performance Li-metal and Li-ion batteries. <i>Journal of Colloid and Interface Science</i> , 2022, 619, 399-406.	5.0	12
25	Enabling ultrafast lithium-ion conductivity of Li ₂ ZrCl ₆ by indium doping. <i>Chinese Chemical Letters</i> , 2022, 33, 4635-4639.	4.8	33
26	Low Tortuosity and Reinforced Concrete Type Ultra-Thick Electrode for Practical Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	33
27	Constructing High-Performance Quasi-Solid-State Sulfur Cathodes via the Cooperation of Solid Electrolyte Interface and Selenium Doping. <i>ChemElectroChem</i> , 2022, 9, .	1.7	1
28	Engineering high conductive Li ₇ P ₂ S ₈ I via Cl- doping for all-solid-state Li-S batteries workable at different operating temperatures. <i>Chemical Engineering Journal</i> , 2022, 442, 136346.	6.6	21
29	<i>In situ</i> prepared copolymer-in-salt electrolytes enabling high-voltage lithium metal batteries. <i>Journal of Materials Chemistry A</i> , 2022, 10, 11732-11741.	5.2	21
30	High-rate sodium metal batteries enabled by trifluoromethylfullerene additive. <i>Nano Research</i> , 2022, 15, 7172-7179.	5.8	13
31	High-performance prelithiated Si-S full cell enabled by trifluorobenzene modified diluted high-concentration electrolyte. <i>Materials Today Energy</i> , 2022, 28, 101069.	2.5	1
32	Fullerenes for rechargeable battery applications: Recent developments and future perspectives. <i>Journal of Energy Chemistry</i> , 2021, 55, 70-79.	7.1	54
33	Fluorobenzene, A Low-Density, Economical, and Bifunctional Hydrocarbon Cosolvent for Practical Lithium Metal Batteries. <i>Advanced Functional Materials</i> , 2021, 31, .	7.8	121
34	Chalcogenide-based inorganic sodium solid electrolytes. <i>Journal of Materials Chemistry A</i> , 2021, 9, 5134-5148.	5.2	23
35	An organodiselenide containing electrolyte enables sulfurized polyacrylonitrile cathodes with fast redox kinetics in Li-S batteries. <i>Chemical Communications</i> , 2021, 57, 9688-9691.	2.2	8
36	Nanophase-Separated, Elastic Epoxy Composite Thin Film as an Electrolyte for Stable Lithium Metal Batteries. <i>Nano Letters</i> , 2021, 21, 3611-3618.	4.5	47

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37	Diluted High Concentration Electrolyte with Dual Effects for Practical Lithium-Sulfur Batteries. <i>Energy Storage Materials</i> , 2021, 36, 333-340.	9.5	66
38	Ultrathin polymer electrolyte film prepared by in situ polymerization for lithium metal batteries. <i>Materials Today Energy</i> , 2021, 21, 100785.	2.5	25
39	In Situ Characterization of Over-Lithiation of Organosulfide-Based Lithium Metal Anodes. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 41555-41562.	4.0	9
40	Exchange of Li and AgNO ₃ Enabling Stable 3D Lithium Metal Anodes with Embedded Lithophilic Nanoparticles and a Solid Electrolyte Interphase Inducer. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 38425-38431.	4.0	10
41	Dual-confined SiO encapsulated in PVA derived carbon layer and chitin derived N-doped carbon nanosheets for high-performance lithium storage. <i>Chemical Engineering Journal</i> , 2021, 420, 129754.	6.6	24
42	Fluorobenzene-based diluted highly concentrated carbonate electrolyte for practical high-voltage lithium metal batteries. <i>Journal of Power Sources</i> , 2021, 506, 230086.	4.0	20
43	Nitrofullerene as an electrolyte-compatible additive for high-performance sodium metal batteries. <i>Nano Energy</i> , 2021, 89, 106396.	8.2	33
44	LiNbO ₃ -coated LiNi _{0.7} Co _{0.1} Mn _{0.2} O ₂ and chlorine-rich argyrodite enabling high-performance solid-state batteries under different temperatures. <i>Energy Storage Materials</i> , 2021, 43, 53-61.	9.5	120
45	Challenges and key parameters in exploring the cyclability limitation of practical lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 24215-24240.	5.2	53
46	Unveiling low-tortuous effect on electrochemical performance toward ultrathick LiFePO ₄ electrode with 100 Åm ² area loading. <i>Journal of Power Sources</i> , 2021, 515, 230588.	4.0	22
47	Li ₄ Sb Sn ₁₋₄ S ₄ solid solutions for air-stable solid electrolytes. <i>Journal of Energy Chemistry</i> , 2020, 41, 171-176.	7.1	75
48	Enhancing ionic conductivity of solid electrolyte by lithium substitution in halogenated Li-Argyrodite. <i>Journal of Power Sources</i> , 2020, 450, 227601.	4.0	58
49	Dual Play of Chitin-Derived N-Doped Carbon Nanosheets Enabling High-Performance Na ₂ S ₂ Half/Full Cells. <i>Batteries and Supercaps</i> , 2020, 3, 165-173.	2.4	16
50	Na _{3.8} [Sn _{0.67} Si _{0.33}] _{0.8} Sb _{0.2} S ₄ : A quinary sodium fast ionic conductor for all-solid-state sodium battery. <i>Journal of Energy Chemistry</i> , 2020, 48, 102-106.	7.1	17
51	Facile preparation of a stable 3D host for lithium metal anodes. <i>Chemical Communications</i> , 2020, 56, 9898-9900.	2.2	17
52	Reconfiguring Organosulfur Cathode by Over-Lithiation to Enable Ultrathick Lithium Metal Anode toward Practical Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2020, 14, 13784-13793.	7.3	62
53	Micron-sized SiO _x /N-doped carbon composite spheres fabricated with biomass chitosan for high-performance lithium-ion battery anodes. <i>RSC Advances</i> , 2020, 10, 38524-38531.	1.7	13
54	Insight into sulfur-rich selenium sulfide/pyrolyzed polyacrylonitrile cathodes for Li-S batteries. <i>Sustainable Energy and Fuels</i> , 2020, 4, 3588-3596.	2.5	12

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55	Elevating reactivity and cyclability of all-solid-state lithium-sulfur batteries by the combination of tellurium-doping and surface coating. <i>Nano Energy</i> , 2020, 76, 105083.	8.2	52
56	Selenium or Tellurium as Eutectic Accelerators for High-Performance Lithium/Sodium Sulfur Batteries. <i>Electrochemical Energy Reviews</i> , 2020, 3, 613-642.	13.1	75
57	Zinc bis(2-ethylhexanoate), a homogeneous and bifunctional additive, to improve conductivity and lithium deposition for poly (ethylene oxide) based all-solid-state lithium metal battery. <i>Journal of Power Sources</i> , 2020, 451, 227730.	4.0	33
58	Enhancing the kinetics of lithium-sulfur batteries under solid-state conversion by using tellurium as a eutectic accelerator. <i>Journal of Materials Chemistry A</i> , 2020, 8, 3405-3412.	5.2	28
59	Effect of Halogen Doping in Sodium Solid Electrolytes Based on the Na-Sn-Si-P-S Quinary System. <i>Chemistry of Materials</i> , 2020, 32, 4065-4071.	3.2	15
60	Material and Interfacial Modification toward a Stable Room-Temperature Solid-State Na-S Battery. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 20563-20569.	4.0	33
61	(Invited) Chemical Manipulation for High Performance Li-S Battery. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 159-159.	0.0	0
62	Facile synthesis and electrochemical properties of Na-rich anti-perovskite solid electrolytes. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2020, 69, 228201-228201.	0.2	2
63	Bifunctional Additive with Smoothing and Protecting Effects for Stable Lithium Metal Anode. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 3532-3532.	0.0	0
64	Chemical Manipulation Towards High Performance Li-S Batteries. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 362-362.	0.0	0
65	Electrolyte Modification and Its Application for High Performance Li Metal Batteries. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 723-723.	0.0	0
66	Nitrofullerene, a C ₆₀ -based Bifunctional Additive with Smoothing and Protecting Effects for Stable Lithium Metal Anode. <i>Nano Letters</i> , 2019, 19, 8780-8786.	4.5	83
67	Design and synthesis of room temperature stable Li-argyrodite superionic conductors via cation doping. <i>Journal of Materials Chemistry A</i> , 2019, 7, 2717-2722.	5.2	54
68	2D ultrathin carbon nanosheets with rich N/O content constructed by stripping bulk chitin for high-performance sodium ion batteries. <i>Nanoscale</i> , 2019, 11, 12626-12636.	2.8	53
69	Facile Generation of Polymer-Alloy Hybrid Layers for Dendrite-Free Lithium-Metal Anodes with Improved Moisture Stability. <i>Angewandte Chemie</i> , 2019, 131, 11496-11500.	1.6	13
70	Facile Generation of Polymer-Alloy Hybrid Layers for Dendrite-Free Lithium-Metal Anodes with Improved Moisture Stability. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 11374-11378.	7.2	167
71	Effect of eutectic accelerator in selenium-doped sulfurized polyacrylonitrile for high performance room temperature sodium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 12732-12739.	5.2	78
72	Group 14 element based sodium chalcogenide Na ₄ Sn _{0.67} Si _{0.33} S ₄ as structure template for exploring sodium superionic conductors. <i>Energy Storage Materials</i> , 2019, 23, 508-513.	9.5	26

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73	Manipulating kinetics of sulfurized polyacrylonitrile with tellurium as eutectic accelerator to prevent polysulfide dissolution in lithium-sulfur battery under dissolution-deposition mechanism. <i>Nano Energy</i> , 2019, 60, 153-161.	8.2	103
74	Ether-compatible sulfurized polyacrylonitrile cathode with excellent performance enabled by fast kinetics via selenium doping. <i>Nature Communications</i> , 2019, 10, 1021.	5.8	211
75	Rotational Cluster Anion Enabling Superionic Conductivity in Sodium-Rich Antiperovskite Na_3OBH_4 . <i>Journal of the American Chemical Society</i> , 2019, 141, 5640-5644.	6.6	97
76	High Performance Room Temperature Sodium-Sulfur Battery by Eutectic Acceleration in Tellurium-Doped Sulfurized Polyacrylonitrile. <i>ACS Applied Energy Materials</i> , 2019, 2, 2956-2964.	2.5	73
77	Cobalt-embedded carbon nanofiber as electrocatalyst for polysulfide redox reaction in lithium sulfur batteries. <i>Electrochimica Acta</i> , 2019, 304, 11-19.	2.6	57
78	Se as eutectic accelerator in sulfurized polyacrylonitrile for high performance all-solid-state lithium-sulfur battery. <i>Energy Storage Materials</i> , 2019, 21, 287-296.	9.5	93
79	Facile synthesis of $\text{Li}_2\text{S}@C$ composites as cathode for Li-S batteries. <i>Journal of Energy Chemistry</i> , 2019, 37, 111-116.	7.1	33
80	Scalable and Sustainable Approach toward Highly Compressible, Anisotropic, Lamellar Carbon Sponge. <i>CheM</i> , 2018, 4, 544-554.	5.8	246
81	Direct synthesis of Al_2O_3 -modified $\text{Li}(\text{Ni}_{0.5}\text{Co}_{0.2}\text{Mn}_{0.3})\text{O}_2$ cathode materials for lithium ion batteries. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2018, 33, 97-101.	0.4	3
82	Free-Standing $\text{Mn}_3\text{O}_4@\text{CNF}/\text{S}$ Paper Cathodes with High Sulfur Loading for Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 13406-13412.	4.0	68
83	Electrocatalytic activity of lithium polysulfides adsorbed into porous TiO_2 coated MWCNTs hybrid structure for lithium-sulfur batteries. <i>Scientific Reports</i> , 2017, 7, 40679.	1.6	26
84	All-wood, low tortuosity, aqueous, biodegradable supercapacitors with ultra-high capacitance. <i>Energy and Environmental Science</i> , 2017, 10, 538-545.	15.6	602
85	Lamellar mesoporous carbon derived from bagasse for the cathode materials of lithium-sulfur batteries. <i>RSC Advances</i> , 2017, 7, 13595-13603.	1.7	10
86	Granadilla-Inspired Structure Design for Conversion/Alloy-Reaction Electrode with Integrated Lithium Storage Behaviors. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 15470-15476.	4.0	11
87	Highly Conductive, Lightweight, Low-Tortuosity Carbon Frameworks as Ultrathick 3D Current Collectors. <i>Advanced Energy Materials</i> , 2017, 7, 1700595.	10.2	210
88	Facile synthesis of mesoporous graphene platelets with in situ nitrogen and sulfur doping for lithium-sulfur batteries. <i>RSC Advances</i> , 2017, 7, 22567-22577.	1.7	20
89	Nitrogen-rich hard carbon as a highly durable anode for high-power potassium-ion batteries. <i>Energy Storage Materials</i> , 2017, 8, 161-168.	9.5	408
90	Highly Flexible and Efficient Solar Steam Generation Device. <i>Advanced Materials</i> , 2017, 29, 1701756.	11.1	584

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91	Hierarchical nitrogen-doped porous graphene/reduced fluorographene/sulfur hybrids for high-performance lithium-sulfur batteries. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 2567-2573.	1.3	22
92	A Hierarchical N-Codoped Carbon Anode Fabricated Facilely from Cellulose/Polyaniline Microspheres for High-Performance Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2016, 6, 1501929.	10.2	460
93	Integrated Intercalation-Based and Interfacial Sodium Storage in Graphene-Wrapped Porous Li ₄ Ti ₅ O ₁₂ Nanofibers Composite Aerogel. <i>Advanced Energy Materials</i> , 2016, 6, 1600322.	10.2	141
94	Au@CdS Core-Shell Nanoparticles-Modified ZnO Nanowires Photoanode for Efficient Photoelectrochemical Water Splitting. <i>Advanced Science</i> , 2015, 2, 1500135.	5.6	77
95	Performance improvement and failure mechanism of LiNi _{0.5} Mn _{1.5} O ₄ /graphite cells with biphenyl additive. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 24373-24381.	1.3	22
96	Synthesis and properties of optimized LiFePO ₄ /C by a CVD-assisted two-step coating method. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	0.8	12
97	Mechanism and kinetic studies on the synthesis of LiFePO ₄ via solid-state reactions. <i>CrystEngComm</i> , 2013, 15, 10648.	1.3	13
98	The Palladium Catalyzed Asymmetric Addition of Oxindoles and Allenes: An Atom-Economical Versatile Method for the Construction of Chiral Indole Alkaloids. <i>Journal of the American Chemical Society</i> , 2011, 133, 20611-20622.	6.6	234
99	Stereoselective, Dual-Mode Ruthenium-Catalyzed Ring Expansion of Alkynylcyclopropanols. <i>Journal of the American Chemical Society</i> , 2008, 130, 17258-17259.	6.6	82
100	Palladium-Catalyzed Diastereo- and Enantioselective Wagner-Meerwein Shift: Control of Absolute Stereochemistry in the C-C Bond Migration Event. <i>Journal of the American Chemical Society</i> , 2008, 130, 6231-6242.	6.6	104
101	Palladium-Catalyzed Asymmetric Ring Expansion of Allenylcyclobutanols: An Asymmetric Wagner-Meerwein Shift. <i>Journal of the American Chemical Society</i> , 2006, 128, 6044-6045.	6.6	119
102	Ultrafast Carbon-Carbon Single-Bond Rotational Isomerization in Room-Temperature Solution. <i>Science</i> , 2006, 313, 1951-1955.	6.0	194
103	Enantioselective Palladium-Catalyzed Addition of 1,3-Dicarbonyl Compounds to an Allene Derivative. <i>Chemistry - A European Journal</i> , 2005, 11, 7075-7082.	1.7	80
104	Accidental vibrational degeneracy in vibrational excited states observed with ultrafast two-dimensional IR vibrational echo spectroscopy. <i>Journal of Chemical Physics</i> , 2005, 123, 164301.	1.2	13
105	Fluorescence Emission and Absorption Spectra of Single <i>Anabaena</i> sp. Strain PCC7120 Cells. <i>Photochemistry and Photobiology</i> , 2002, 76, 310.	1.3	22