

# Zhigao Luo

## List of Publications by Year in descending order

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56  
papers

2,635  
citations

201674

27  
h-index

189892

50  
g-index

56  
all docs

56  
docs citations

56  
times ranked

3044  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pilotaxitic Na <sub>1.1V3O7.9</sub> nanoribbons/graphene as high-performance sodium ion battery and aqueous zinc ion battery cathode. <i>Energy Storage Materials</i> , 2018, 13, 168-174.	18.0	271
2	Caging Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> F <sub>3</sub> Microcubes in Cross-Linked Graphene Enabling Ultrafast Sodium Storage and Long-Term Cycling. <i>Advanced Science</i> , 2018, 5, 1800680.	11.2	182
3	Encapsulation of Co <sub>x</sub> Nanocrystals into N/S Co-Doped Honeycomb-Like 3D Porous Carbon for High-Performance Lithium Storage. <i>Advanced Science</i> , 2018, 5, 1800829.	11.2	172
4	Two-dimensional hybrid nanosheets of few layered MoSe <sub>2</sub> on reduced graphene oxide as anodes for long-cycle-life lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 15302-15308.	10.3	167
5	Rapid sintering method for highly conductive Li <sub>7</sub> La <sub>3</sub> Zr <sub>2</sub> O <sub>12</sub> ceramic electrolyte. <i>Ceramics International</i> , 2020, 46, 10917-10924.	4.8	146
6	Metal-organic framework-derived porous shuttle-like vanadium oxides for sodium-ion battery application. <i>Nano Research</i> , 2018, 11, 449-463.	10.4	108
7	Nitrogen doped hollow MoS <sub>2</sub> /C nanospheres as anode for long-life sodium-ion batteries. <i>Chemical Engineering Journal</i> , 2017, 327, 522-529.	12.7	101
8	N-doped one-dimensional carbonaceous backbones supported MoSe <sub>2</sub> nanosheets as superior electrodes for energy storage and conversion. <i>Chemical Engineering Journal</i> , 2018, 334, 2190-2200.	12.7	88
9	Tellurium Surface Doping to Enhance the Structural Stability and Electrochemical Performance of Layered Ni-Rich Cathodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 40022-40033.	8.0	85
10	Modified Chestnut-Like Structure Silicon Carbon Composite as Anode Material for Lithium-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 10415-10424.	6.7	84
11	Hydrogen Bond-Functionalized Massive Solvation Modules Stabilizing Bilateral Interfaces. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	82
12	Bismuth nanosheets grown on carbon fiber cloth as advanced binder-free anode for sodium-ion batteries. <i>Electrochemistry Communications</i> , 2017, 81, 10-13.	4.7	78
13	TiO <sub>2</sub> nanorods grown on carbon fiber cloth as binder-free electrode for sodium-ion batteries and flexible sodium-ion capacitors. <i>Journal of Power Sources</i> , 2017, 363, 284-290.	7.8	67
14	Improved cycle and air stability of P <sub>3</sub> -Na <sub>0.65</sub> Mn <sub>0.75</sub> Ni <sub>0.25</sub> O <sub>2</sub> electrode for sodium-ion batteries coated with metal phosphates. <i>Chemical Engineering Journal</i> , 2019, 372, 1066-1076.	12.7	67
15	Preparation and performances of the modified gel composite electrolyte for application of quasi-solid-state lithium sulfur battery. <i>Chemical Engineering Journal</i> , 2020, 389, 124300.	12.7	60
16	Hollow Silicon-Tin Nanospheres Encapsulated by N-Doped Carbon as Anode Materials for Lithium-Ion Batteries. <i>ACS Applied Nano Materials</i> , 2018, 1, 6989-6999.	5.0	51
17	The effects of dual modification on structure and performance of P <sub>2</sub> -type layered oxide cathode for sodium-ion batteries. <i>Chemical Engineering Journal</i> , 2020, 384, 123234.	12.7	48
18	Carbon-Coated Yttria Hollow Spheres as Both Sulfur Immobilizer and Catalyst of Polysulfides Conversion in Lithium-Sulfur Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 42104-42113.	8.0	45

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19	Hierarchically structured spherical nickel cobalt layered double hydroxides particles grown on biomass porous carbon as an advanced electrode for high specific energy asymmetric supercapacitor. <i>Journal of Energy Storage</i> , 2020, 30, 101454.	8.1	45
20	Nanorod-Nanoflake Interconnected $\text{LiMnPO}_4\text{-Li}_3\text{V}_2(\text{PO}_4)_3/\text{C}$ Composite for High-Rate and Long-Life Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 27632-27641.	8.0	44
21	Graphene oxide templated nitrogen-doped carbon nanosheets with superior rate capability for sodium ion batteries. <i>Carbon</i> , 2017, 122, 82-91.	10.3	43
22	Electrochemical performance and structural stability of air-stable $\text{Na}_{0.67}\text{Ni}_{0.33}\text{Mn}_{0.67-x}\text{Ti}_x\text{O}_2$ cathode materials for high-performance sodium-ion batteries. <i>Chemical Engineering Journal</i> , 2020, 399, 125725.	12.7	43
23	Quasi-Solid Electrolyte Design and In Situ Construction of Dual Electrolyte/Electrode Interphases for High-Stability Zinc Metal Battery. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	42
24	A tin disulfide nanosheet wrapped with interconnected carbon nanotube networks for application of lithium sulfur batteries. <i>Electrochimica Acta</i> , 2019, 313, 151-160.	5.2	33
25	Preparation and Performance of the Heterostructured Material with a Ni-Rich Layered Oxide Core and a $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ -like Spinel Shell. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 16556-16566.	8.0	31
26	High-performance P2-Type Fe/Mn-based oxide cathode materials for sodium-ion batteries. <i>Electrochimica Acta</i> , 2019, 312, 45-53.	5.2	30
27	Flower-like ZnO modified with BiOI nanoparticles as adsorption/catalytic bifunctional hosts for lithium-sulfur batteries. <i>Journal of Energy Chemistry</i> , 2020, 51, 21-29.	12.9	30
28	Preparation and application of poly(ethylene oxide)-based all solid-state electrolyte with a walnut-like $\text{SiO}_2$ as nano-fillers. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48810.	2.6	29
29	$\text{SnF}_2$ -based fluoride ion electrolytes $\text{MSnF}_4$ ( $M = \text{Ba, Pb}$ ) for the application of room-temperature solid-state fluoride ion batteries. <i>Journal of Alloys and Compounds</i> , 2020, 819, 152983.	5.5	27
30	Nitrogen/sulfur co-doped hollow carbon nanofiber anode obtained from polypyrrole with enhanced electrochemical performance for Na-ion batteries. <i>Science Bulletin</i> , 2018, 63, 126-132.	9.0	26
31	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
32	Fe, Co-bimetallic doped $\text{C}_3\text{N}_4$ with in-situ derived carbon tube as sulfur host for anchoring and catalyzing polysulfides in lithium-sulfur battery. <i>Journal of Alloys and Compounds</i> , 2021, 873, 159883.	5.5	21
33	Semi-interpenetrating gel polymer electrolyte based on $\text{PVDF-HFP}$ for lithium ion batteries. <i>Journal of Applied Polymer Science</i> , 2021, 138, 49993.	2.6	20
34	Efficient Mutual-Compensating Li-Loss Strategy toward Highly Conductive Garnet Ceramics for Li-Metal Solid-State Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 56054-56063.	8.0	19
35	Double bond effects induced by iron selenide as immobilized homogenous catalyst for efficient polysulfides capture. <i>Chemical Engineering Journal</i> , 2021, 421, 129770.	12.7	18
36	A flexible tysonite-type $\text{La}_{0.95}\text{Ba}_{0.05}\text{F}_{2.95}$ @PEO-based composite electrolyte for the application of advanced fluoride ion battery. <i>Journal of Energy Storage</i> , 2019, 25, 100886.	8.1	17

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37	Preparation and performances of novel Na <sub>2</sub> FeSiO <sub>4</sub> /C composite with more stable polymorph as cathode material of sodium-ion batteries. <i>Journal of Power Sources</i> , 2019, 430, 120-129.	7.8	17
38	High-Performance Gel Polymer Electrolyte with Self-Healing Capability for Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2022, 5, 5267-5276.	5.1	14
39	Heterogeneous dual-wrapped architecture of hollow SiO <sub>x</sub> /MoS <sub>2</sub> -CNTs nanohybrids as anode materials for lithium-ion batteries. <i>Journal of Electroanalytical Chemistry</i> , 2019, 842, 50-58.	3.8	13
40	Nd <sup>3+</sup> doped BaSnF <sub>4</sub> solid electrolyte for advanced room-temperature solid-state fluoride ion batteries. <i>Ceramics International</i> , 2020, 46, 20521-20528.	4.8	13
41	Polyaniline-Derived Carbon Heterostructure as Redox Mediator of Li <sub>2</sub> S Oxidation and Polysulfide Immobilizer for High-Performance Lithium-Sulfur Cathode. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 16659-16670.	6.7	11
42	Electrochemical Energy Storage Behavior of Na <sub>0.44</sub> MnO <sub>2</sub> in Aqueous Zinc-Ion Battery. <i>ACS Sustainable Chemistry and Engineering</i> , 0, , .	6.7	11
43	Multiple Strategies toward Advanced P2-Type Layered Na <sub>x</sub> MnO <sub>2</sub> for Low-Cost Sodium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 8183-8192.	5.1	11
44	Multiple roles of titanium carbide in performance boosting: Mediator, anchor and electrocatalyst for polysulfides redox regulation. <i>Chemical Engineering Journal</i> , 2021, 426, 130744.	12.7	11
45	Lithium Sulfide-Embedded Three-Dimensional Heterogeneous Micro-/Mesoporous Interwoven Carbon Architecture as the Cathode of Lithium-Sulfur Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 351-361.	6.7	10
46	The preparation and performances of lithium sulfide (Li <sub>2</sub> S)-oriented cathode composite via carbothermic reduction. <i>Journal of Alloys and Compounds</i> , 2020, 835, 155421.	5.5	9
47	Polyfurfuryl alcohol assisted synthesis of Na <sub>2</sub> FePO <sub>4</sub> F/C nanocomposites as cathode material of sodium ion batteries. <i>Journal of Electroanalytical Chemistry</i> , 2020, 867, 114187.	3.8	9
48	Preparation and performances of poly (ethylene oxide)-Li <sub>6</sub> PS <sub>5</sub> Cl composite polymer electrolyte for all-solid-state lithium batteries. <i>Journal of Electroanalytical Chemistry</i> , 2021, 900, 115739.	3.8	9
49	Performance Improvement of Li <sub>6</sub> PS <sub>5</sub> Cl Solid Electrolyte Modified by Poly(ethylene oxide)-Based Composite Polymer Electrolyte with ZSM-5 Molecular Sieves. <i>ACS Applied Energy Materials</i> , 2022, 5, 2356-2365.	5.1	9
50	Superior Na-Storage Properties of Nickel-Substituted Na <sub>2</sub> FeSiO <sub>4</sub> @C Microspheres Encapsulated with the In Situ-Synthesized Alveolation-like Carbon Matrix. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 34858-34872.	8.0	8
51	Ionic conductivity and interfacial stability of Li <sub>6</sub> PS <sub>5</sub> Cl@Li <sub>6.5</sub> La <sub>3</sub> Zr <sub>1.5</sub> Ta <sub>0.5</sub> O <sub>12</sub> composite electrolyte. <i>Journal of Solid State Electrochemistry</i> , 2021, 25, 2513-2525.	2.5	7
52	Catalytic-conversion behavior of MoS <sub>2</sub> for polysulfides by nickel introduction and phosphorous-doping in advanced lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , 2021, 425, 131640.	12.7	7
53	Enhancing Reaction Kinetics of Sulfur-Containing Species in Li-S Batteries by Quantum Dot-Level Tin Oxide Hydroxide Catalysts. <i>ACS Applied Energy Materials</i> , 2021, 4, 4935-4944.	5.1	6
54	Green and Facile Preparation of Carbon-Coated TiO <sub>2</sub> Nanosheets for High-Performance Sodium-Ion Batteries. <i>Energy Technology</i> , 2018, 6, 759-765.	3.8	5

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55	Titanium Glycolate Nanorods with Unsaturated Sites as Multifunctional Layers for Advanced Lithium-Sulfur Batteries. ACS Applied Energy Materials, 2021, 4, 3670-3680.	5.1	5
56	Preparation and Performance of Eu <sup>3+</sup> -Doped BaSnF <sub>4</sub> -Based Solid-State Electrolytes for Room-Temperature Fluoride-Ion Batteries. ACS Sustainable Chemistry and Engineering, 2021, 9, 12978-12989.	6.7	5