

Zhigao Luo

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3462683/publications.pdf>

Version: 2024-02-01

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	Performance Improvement of Li ₆ PS ₅ Cl Solid Electrolyte Modified by Poly(ethylene oxide)-Based Composite Polymer Electrolyte with ZSM-5 Molecular Sieves. ACS Applied Energy Materials, 2022, 5, 2356-2365.	5.1	9
2	Hydrogen Bond-Functionalized Massive Solvation Modules Stabilizing Bilateral Interfaces. Advanced Functional Materials, 2022, 32, .	14.9	82
3	High-Performance Gel Polymer Electrolyte with Self-Healing Capability for Lithium-Ion Batteries. ACS Applied Energy Materials, 2022, 5, 5267-5276.	5.1	14
4	Quasi-Solid Electrolyte Design and In Situ Construction of Dual Electrolyte/Electrode Interphases for High-Stability Zinc Metal Battery. Advanced Energy Materials, 2022, 12, .	19.5	42
5	Semi-interpenetrating gel polymer electrolyte based on PVPDFHP for lithium ion batteries. Journal of Applied Polymer Science, 2021, 138, 49993.	2.6	20
6	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
7	Enhancing Reaction Kinetics of Sulfur-Containing Species in Li-S Batteries by Quantum Dot-Level Tin Oxide Hydroxide Catalysts. ACS Applied Energy Materials, 2021, 4, 4935-4944.	5.1	6
8	Rapid preparation and performances of garnet electrolyte with sintering aids for solid-state Li-S battery. Ceramics International, 2021, 47, 18196-18204.	4.8	25
9	Multiple Strategies toward Advanced P2-Type Layered NaMnO ₂ for Low-Cost Sodium-Ion Batteries. ACS Applied Energy Materials, 2021, 4, 8183-8192.	5.1	11
10	Ionic conductivity and interfacial stability of Li ₆ PS ₅ Cl-Li _{6.5} La ₃ Zr _{1.5} Ta _{0.5} O ₁₂ composite electrolyte. Journal of Solid State Electrochemistry, 2021, 25, 2513-2525.	2.5	7
11	Fe, Co-bimetallic doped C ₃ N ₄ with in-situ derived carbon tube as sulfur host for anchoring and catalyzing polysulfides in lithium-sulfur battery. Journal of Alloys and Compounds, 2021, 873, 159883.	5.5	21
12	Preparation and Performance of Eu ³⁺ -Doped BaSnF ₄ -Based Solid-State Electrolytes for Room-Temperature Fluoride-Ion Batteries. ACS Sustainable Chemistry and Engineering, 2021, 9, 12978-12989.	6.7	5
13	Preparation and performances of poly(ethylene oxide)-Li ₆ PS ₅ Cl composite polymer electrolyte for all-solid-state lithium batteries. Journal of Electroanalytical Chemistry, 2021, 900, 115739.	3.8	9
14	Double bond effects induced by iron selenide as immobilized homogenous catalyst for efficient polysulfides capture. Chemical Engineering Journal, 2021, 421, 129770.	12.7	18
15	Multiple roles of titanium carbide in performance boosting: Mediator, anchor and electrocatalyst for polysulfides redox regulation. Chemical Engineering Journal, 2021, 426, 130744.	12.7	11
16	Catalytic-conversion behavior of MoS ₂ for polysulfides by nickel introduction and phosphorous-doping in advanced lithium-sulfur batteries. Chemical Engineering Journal, 2021, 425, 131640.	12.7	7
17	Efficient Mutual-Compensating Li-Loss Strategy toward Highly Conductive Garnet Ceramics for Li-Metal Solid-State Batteries. ACS Applied Materials & Interfaces, 2021, 13, 56054-56063.	8.0	19
18	The effects of dual modification on structure and performance of P2-type layered oxide cathode for sodium-ion batteries. Chemical Engineering Journal, 2020, 384, 123234.	12.7	48

#	ARTICLE	IF	CITATIONS
19	Rapid sintering method for highly conductive $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ ceramic electrolyte. <i>Ceramics International</i> , 2020, 46, 10917-10924.	4.8	146
20	Preparation and application of poly(ethylene oxide)-based all solid-state electrolyte with a walnut-like SiO_2 as nano-fillers. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48810.	2.6	29
21	SnF_2 -based fluoride ion electrolytes MSnF_4 ($M = \text{Ba}, \text{Pb}$) for the application of room-temperature solid-state fluoride ion batteries. <i>Journal of Alloys and Compounds</i> , 2020, 819, 152983.	5.5	27
22	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
23	Polyaniline-Derived Carbon Heterostructure as Redox Mediator of Li_2S Oxidation and Polysulfide Immobilizer for High-Performance Lithium-Sulfur Cathode. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 16659-16670.	6.7	11
24	Superior Na-Storage Properties of Nickel-Substituted $\text{Na}_2\text{FeSiO}_4@C$ Microspheres Encapsulated with the In Situ-Synthesized Alveolation-like Carbon Matrix. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 34858-34872.	8.0	8
25	The preparation and performances of lithium sulfide (Li_2S)-oriented cathode composite via carbothermic reduction. <i>Journal of Alloys and Compounds</i> , 2020, 835, 155421.	5.5	9
26	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
27	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
28	Polyfurfuryl alcohol assisted synthesis of $\text{Na}_2\text{FePO}_4\text{F}/C$ nanocomposites as cathode material of sodium ion batteries. <i>Journal of Electroanalytical Chemistry</i> , 2020, 867, 114187.	3.8	9
29	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
30	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
31	Nd^{3+} doped BaSnF_4 solid electrolyte for advanced room-temperature solid-state fluoride ion batteries. <i>Ceramics International</i> , 2020, 46, 20521-20528.	4.8	13
32	Carbon-Coated Yttria Hollow Spheres as Both Sulfur Immobilizer and Catalyst of Polysulfides Conversion in Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 42104-42113.	8.0	45
33	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
34	Tellurium Surface Doping to Enhance the Structural Stability and Electrochemical Performance of Layered Ni-Rich Cathodes. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 40022-40033.	8.0	85
35	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
36	Improved cycle and air stability of $\text{P}_3\text{-Na}_{0.65}\text{Mn}_{0.75}\text{Ni}_{0.25}\text{O}_2$ electrode for sodium-ion batteries coated with metal phosphates. <i>Chemical Engineering Journal</i> , 2019, 372, 1066-1076.	12.7	67

#	ARTICLE	IF	CITATIONS
37	Preparation and performances of novel Na ₂ FeSiO ₄ /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	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
39	Heterogeneous dual-wrapped architecture of hollow SiO _x /MoS ₂ -CNTs nanohybrids as anode materials for lithium-ion batteries. <i>Journal of Electroanalytical Chemistry</i> , 2019, 842, 50-58.	3.8	13
40	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
41	Preparation and Performance of the Heterostructured Material with a Ni-Rich Layered Oxide Core and a LiNi _{0.5} Mn _{1.5} O ₄ -like Spinel Shell. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 16556-16566.	8.0	31
42	Pilotaxitic Na _{1.1} V ₃ O _{7.9} 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
43	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
44	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
45	N-doped one-dimensional carbonaceous backbones supported MoSe ₂ nanosheets as superior electrodes for energy storage and conversion. <i>Chemical Engineering Journal</i> , 2018, 334, 2190-2200.	12.7	88
46	Green and Facile Preparation of Carbon-Coated TiO ₂ Nanosheets for High-Performance Sodium-Ion Batteries. <i>Energy Technology</i> , 2018, 6, 759-765.	3.8	5
47	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
48	Caging Na ₃ V ₂ (PO ₄) ₂ F ₃ Microcubes in Cross-Linked Graphene Enabling Ultrafast Sodium Storage and Long-Term Cycling. <i>Advanced Science</i> , 2018, 5, 1800680.	11.2	182
49	Encapsulation of Co _x 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
50	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
51	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
52	TiO ₂ 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
53	Nitrogen doped hollow MoS ₂ /C nanospheres as anode for long-life sodium-ion batteries. <i>Chemical Engineering Journal</i> , 2017, 327, 522-529.	12.7	101
54	Two-dimensional hybrid nanosheets of few layered MoSe ₂ 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

#	ARTICLE	IF	CITATIONS
55	Nanorod-Nanoflake Interconnected $\text{LiMnPO}_4 \cdot \text{Li}_3\text{V}_2(\text{PO}_4)_3/\text{C}$ Composite for High-Rate and Long-Life Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 27632-27641.	8.0	44
56	Electrochemical Energy Storage Behavior of $\text{Na}_{0.44}\text{MnO}_2$ in Aqueous Zinc-Ion Battery. <i>ACS Sustainable Chemistry and Engineering</i> , 0, , .	6.7	11