Zhengliang Gong

List of Publications by Year
in descending order

29 papers	2,306 citations	304743 22 h-index	477307 29 g-index
29 all docs	29 docs citations	29 times ranked	3075 citing authors

#	Article	IF	Citations
1	Recent advances in the research of polyanion-type cathode materials for Li-ion batteries. Energy and Environmental Science, 2011, 4, 3223.	30.8	463
2	Drawing a Soft Interface: An Effective Interfacial Modification Strategy for Garnet-Type Solid-State Li Batteries. ACS Energy Letters, 2018, 3, 1212-1218.	17.4	321
3	Insights into the Effects of Zinc Doping on Structural Phase Transition of P2-Type Sodium Nickel Manganese Oxide Cathodes for High-Energy Sodium Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 22227-22237.	8.0	177
4	Electrochemoâ€Mechanical Effects on Structural Integrity of Niâ€Rich Cathodes with Different Microstructures in All Solidâ€State Batteries. Advanced Energy Materials, 2021, 11, 2003583.	19.5	112
5	Poly(ethylene oxide)â€“Li₁₀SnP₂S₁₂ Composite Polymer Electrolyte Enables High-Performance All-Solid-State Lithium Sulfur Battery. ACS Applied Materials & Interfaces, 2019, 11, 22745-22753.	8.0	108
6	Rational Design of Si@SiO₂/C Composites Using Sustainable Cellulose as a Carbon Resource for Anodes in Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 7946-7954.	8.0	107
7	Restraining the polarization increase of Ni-rich and low-Co cathodes upon cycling by Al-doping. Journal of Materials Chemistry A, 2020, 8, 6893-6901.	10.3	100
8	In Situ Generated Li₂Sâ€“C Nanocomposite for High-Capacity and Long-Life All-Solid-State Lithium Sulfur Batteries with Ultrahigh Areal Mass Loading. Nano Letters, 2019, 19, 3280-3287.	9.1	98
9	Exploring the working mechanism of Li⁺ in O3-type NaLi_{0.1}Ni_{0.35}Mn_{0.55}O₂ cathode materials for rechargeable Na-ion batteries. Journal of Materials Chemistry A, 2016, 4, 9054-9062.	10.3	92
10	Solâ€“gel synthesis and electrochemical properties of fluorophosphates Na2Fe1â^'xMnxPO4F/C (x = 0, 0.1,) Tj ETQq0 0 0 rgBT /Overlock 21, 18630.	6.7	88
11	Pushing Lithium Cobalt Oxides to 4.7ÂV by Latticeâ€Matched Interfacial Engineering. Advanced Energy Materials, 2022, 12, .	19.5	77
12	Nanostructured 0.8Li2FeSiO4/0.4Li2SiO3/C composite cathode material with enhanced electrochemical performance for lithium-ion batteries. Journal of Materials Chemistry, 2012, 22, 12128.	6.7	64
13	Linking the Defects to the Formation and Growth of Li Dendrite in Allâ€Solidâ€State Batteries. Advanced Energy Materials, 2021, 11, 2102148.	19.5	61
14	Research Progress in Multielectron Reactions in Polyanionic Materials for Sodiumâ€Ion Batteries. Small Methods, 2019, 3, 1800221.	8.6	54
15	Synthesis and Reaction Mechanism of Novel Fluorinated Carbon Fiber as a High-Voltage Cathode Material for Rechargeable Na Batteries. Chemistry of Materials, 2016, 28, 1026-1033.	6.7	53
16	The effects of sintering temperature and time on the structure and electrochemical performance of LiNi 0.8 Co 0.2 O 2 cathode materials derived from sol-gel method. Journal of Solid State Electrochemistry, 2003, 7, 456-462.	2.5	40
17	Solâ€“gel synthesis of Li2CoPO4F/C nanocomposite as a high power cathode material for lithium ion batteries. Journal of Power Sources, 2012, 220, 122-129.	7.8	39
18	Graphene nanowalls conformally coated with amorphous/ nanocrystalline Si as high-performance binder-free nanocomposite anode for lithium-ion batteries. Journal of Power Sources, 2019, 437, 226909.	7.8	39

#	Article	IF	Citations
19	Promoting long-term cycling performance of high-voltage Li₂CoPO₄F by the stabilization of electrode/electrolyte interface. Journal of Materials Chemistry A, 2014, 2, 1006-1013.	10.3	38
20	N-doped rGO/C@Si composites using sustainable chitosan as the carbon source for lithium-ion batteries. Applied Surface Science, 2020, 501, 144136.	6.1	36
21	Modifying an ultrathin insulating layer to suppress lithium dendrite formation within garnet solid electrolytes. Journal of Materials Chemistry A, 2021, 9, 3576-3583.	10.3	36
22	Interfacial compatibility issues in rechargeable solid-state lithium metal batteries: a review. Science China Chemistry, 2021, 64, 879-898.	8.2	28
23	Li2S@NC composite enable high active material loading and high Li2S utilization for all-solid-state lithium sulfur batteries. Journal of Power Sources, 2020, 479, 228792.	7.8	21
24	Highly reversible Li₂RuO₃ cathodes in sulfide-based all solid-state lithium batteries. Energy and Environmental Science, 2022, 15, 3470-3482.	30.8	17
25	Oxygen Reduction Contributing to Charge Transfer during the First Discharge of the CeO₂â€“Bi₂Fe₄O₉â€“Li Battery: In Situ X-ray Diffraction and X-ray Absorption Near-Edge Structure Investigation. Journal of Physical Chemistry C, 2014, 118, 14711-14722.	3.1	13
26	Enhanced Electrochemical Performance of High-Energy Lithium-Sulfur Batteries Using an Electrolyte with 1,1,2,2-Tetrafluoro-3-(1,1,2,2-tetrafluoroethoxy)propane. Journal of the Electrochemical Society, 2018, 165, A1915-A1919.	2.9	12
27	Influence of Degree of Substitution of Carboxymethyl Cellulose on High Performance Silicon Anode in Lithium-Ion Batteries. Electrochemistry, 2019, 87, 94-99.	1.4	5
28	In Situ Construction of a LiF-Enriched Interfacial Modification Layer for Stable All-Solid-State Batteries. ACS Applied Materials & Interfaces, 2022, 14, 29878-29885.	8.0	5
29	Exploring 1,1,2,2-tetrafluoroethyl-2,2,3,3-tetrafluoropropyl ether as a high voltage electrolyte solvent for 5-V Li2CoPO4F cathode. Journal of Solid State Electrochemistry, 2021, 25, 1353-1360.	2.5	2