Kailong Zhang

List of Publications by Year
in descending order

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28 papers	1,684 citations	516710 16 h-index	552781 26 g-index
28 all docs	28 docs citations	28 times ranked	3005 citing authors

#	Article	IF	Citations
1	Wetâ€Chemical Synthesis of Hollow Redâ€Phosphorus Nanospheres with Porous Shells as Anodes for Highâ€Performance Lithiumâ€Ion and Sodiumâ€Ion Batteries. Advanced Materials, 2017, 29, 1700214.	21.0	213
2	Conductive Nanocrystalline Niobium Carbide as Highâ€Efficiency Polysulfides Tamer for Lithiumâ€Sulfur Batteries. Advanced Functional Materials, 2018, 28, 1704865.	14.9	210
3	A low temperature molten salt process for aluminothermic reduction of silicon oxides to crystalline Si for Li-ion batteries. Energy and Environmental Science, 2015, 8, 3187-3191.	30.8	193
4	Nitrogen-doped porous interconnected double-shelled hollow carbon spheres with high capacity for lithium ion batteries and sodium ion batteries. Electrochimica Acta, 2015, 155, 174-182.	5.2	166
5	Amorphous S-rich S_{1â^'x}Se_x/C (x â‰ 0.1) composites promise better lithiumâ€“sulfur batteries in a carbonate-based electrolyte. Energy and Environmental Science, 2015, 8, 3181-3186.	30.8	164
6	Synthesis of S/CoS2 Nanoparticles-Embedded N-doped Carbon Polyhedrons from Polyhedrons ZIF-67 and their Properties in Lithium-Sulfur Batteries. Electrochimica Acta, 2016, 218, 243-251.	5.2	141
7	A graphene oxide-wrapped bipyramidal sulfur@polyaniline coreâ€“shell structure as a cathode for Liâ€“S batteries with enhanced electrochemical performance. Journal of Materials Chemistry A, 2016, 4, 6404-6410.	10.3	98
8	A potential pyrrhotite (Fe₇S₈) anode material for lithium storage. RSC Advances, 2015, 5, 14828-14831.	3.6	65
9	2D molybdenum nitride nanosheets as anode materials for improved lithium storage. Nanoscale, 2018, 10, 18936-18941.	5.6	61
10	Boosting Lithiumâ€“Sulfur Battery Performance by Integrating a Redox-Active Covalent Organic Framework in the Separator. ACS Applied Energy Materials, 2019, 2, 5793-5798.	5.1	57
11	B,N-Co-doped Graphene Supported Sulfur for Superior Stable Liâ€“S Half Cell and Geâ€“S Full Battery. ACS Applied Materials & Interfaces, 2016, 8, 27679-27687.	8.0	56
12	Study on the effect of transition metal sulfide in lithiumâ€“sulfur battery. Inorganic Chemistry Frontiers, 2019, 6, 477-481.	6.0	41
13	Dual taming of polysufides by phosphorus-doped carbon for improving electrochemical performances of lithiumâ€“sulfur battery. Electrochimica Acta, 2020, 354, 136648.	5.2	40
14	In situ growth of carbon nanotube wrapped Si composites as anodes for high performance lithium ion batteries. Nanoscale, 2016, 8, 4903-4907.	5.6	30
15	Chemical synthesis of porous hierarchical Geâ€“Sn binary composites using metathesis reaction for rechargeable Li-ion batteries. Chemical Communications, 2015, 51, 17156-17159.	4.1	27
16	Pyridinic and pyrrolic nitrogen-enriched carbon as a polysulfide blocker for high-performance lithiumâ€“sulfur batteries. Inorganic Chemistry Frontiers, 2019, 6, 955-960.	6.0	22
17	MOF-derived fluorine and nitrogen co-doped porous carbon for an integrated membrane in lithiumâ€“sulfur batteries. New Journal of Chemistry, 2021, 45, 2361-2365.	2.8	20
18	Trace Fe³⁺ mediated synthesis of LiFePO₄ micro/nanostructures towards improved electrochemical performance for lithium-ion batteries. RSC Advances, 2016, 6, 456-463.	3.6	17

#	Article	IF	Citations
19	A novel class of functional additives for cyclability enhancement of the sulfur cathode in lithium sulfur batteries. Inorganic Chemistry Frontiers, 2018, 5, 2013-2017.	6.0	13
20	Componentâ€Tunable Rutileâ€Anatase TiO₂/Reduced Graphene Oxide Nanocomposites for Enhancement of Electrocatalytic Oxygen Evolution. ChemNanoMat, 2018, 4, 1133-1139.	2.8	13
21	A scalable in situ surfactant-free synthesis of a uniform MnO/graphene composite for highly reversible lithium storage. Dalton Transactions, 2016, 45, 19221-19225.	3.3	12
22	Phosphorus-doped mesoporous carbon derived from waste tires as anode for K-ion batteries. Materials Letters, 2021, 285, 128983.	2.6	10
23	Nitrogen-doped carbon embedded with Ag nanoparticles for bidirectionally-promoted polysulfide redox electrochemistry. Chemical Engineering Journal, 2022, 427, 130897.	12.7	9
24	Taming Polysulfides in an Liâ€“S Battery With Low-Temperature One-step Chemical Synthesis of Titanium Carbide Nanoparticles From Waste PTFE. Frontiers in Chemistry, 2021, 9, 638557.	3.6	4
25	Lowâ€temperature synthesis of CrB nanoparticles and nanosheets by a solidâ€state reaction. International Journal of Applied Ceramic Technology, 2021, 18, 1498-1501.	2.1	1
26	Synthesis of nanostructured zirconium monosilicide via a lithium thermal reduction route at low temperature. International Journal of Materials Research, 2020, 111, 1047-1050.	0.3	1
27	One-step Chemical Synthesis of Superconducting MgCNi₃ Microparticles at Low Temperature. Chemistry Letters, 2020, 49, 354-356.	1.3	0
28	Solid-State Synthesis and Characterization of Hafnium Diboride Nanoparticles. Journal of Superhard Materials, 2020, 42, 396-400.	1.2	0