

Kai Zhang

List of Publications by Year in descending order

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50
papers

4,778
citations

172207

29
h-index

197535

49
g-index

50
all docs

50
docs citations

50
times ranked

6827
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanostructured Mn-based oxides for electrochemical energy storage and conversion. <i>Chemical Society Reviews</i> , 2015, 44, 699-728.	18.7	740
2	MoS ₂ Nanoflowers with Expanded Interlayers as High-Performance Anodes for Sodium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 12794-12798.	7.2	670
3	Pyrite FeS ₂ for high-rate and long-life rechargeable sodium batteries. <i>Energy and Environmental Science</i> , 2015, 8, 1309-1316.	15.6	628
4	Al ₂ O ₃ -coated porous separator for enhanced electrochemical performance of lithium sulfur batteries. <i>Electrochimica Acta</i> , 2014, 129, 55-61.	2.6	387
5	MoS ₂ Nanoflowers with Expanded Interlayers as High-Performance Anodes for Sodium-Ion Batteries. <i>Angewandte Chemie</i> , 2014, 126, 13008-13012.	1.6	310
6	Tailoring Anisotropic Li-Ion Transport Tunnels on Orthogonally Arranged Li-Rich Layered Oxide Nanoplates Toward High-Performance Li-Ion Batteries. <i>Nano Letters</i> , 2017, 17, 1670-1677.	4.5	128
7	Bismuth Nanoparticles Embedded in Carbon Spheres as Anode Materials for Sodium/Lithium-Ion Batteries. <i>Chemistry - A European Journal</i> , 2016, 22, 2333-2338.	1.7	123
8	Preparation of a macroscopic, robust carbon-fiber monolith from filamentous fungi and its application in Li-S batteries. <i>Green Chemistry</i> , 2014, 16, 3926.	4.6	115
9	Nickel foam as interlayer to improve the performance of lithium-sulfur battery. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 1025-1029.	1.2	111
10	Improved cyclability of lithium-sulfur battery cathode using encapsulated sulfur in hollow carbon nanofiber@nitrogen-doped porous carbon core-shell composite. <i>Carbon</i> , 2014, 78, 1-9.	5.4	108
11	Few-layered MoS ₂ /C with expanding d-spacing as a high-performance anode for sodium-ion batteries. <i>Nanoscale</i> , 2017, 9, 12189-12195.	2.8	100
12	Mesoporous carbon from biomass: one-pot synthesis and application for Li-S batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 13916.	5.2	95
13	A simple synthesis of hollow carbon nanofiber-sulfur composite via mixed-solvent process for lithium-sulfur batteries. <i>Journal of Power Sources</i> , 2014, 256, 137-144.	4.0	88
14	High performance lithium sulfur batteries with a cassava-derived carbon sheet as a polysulfides inhibitor. <i>New Journal of Chemistry</i> , 2014, 38, 4549-4554.	1.4	82
15	Pomegranate-like microclusters organized by ultrafine Co nanoparticles@nitrogen-doped carbon subunits as sulfur hosts for long-life lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 14178-14187.	5.2	78
16	Hierarchically porous carbon derived from banana peel for lithium sulfur battery with high areal and gravimetric sulfur loading. <i>Journal of Power Sources</i> , 2017, 362, 160-167.	4.0	75
17	Flower-like MoSe ₂ /C Composite with Expanded (002) Planes of Few-layer MoSe ₂ as the Anode for High-Performance Sodium-Ion Batteries. <i>Chemistry - A European Journal</i> , 2017, 23, 14004-14010.	1.7	74
18	Synergistically enhanced activity of graphene quantum dots/graphene hydrogel composites: a novel all-carbon hybrid electrocatalyst for metal/air batteries. <i>Nanoscale</i> , 2016, 8, 11398-11402.	2.8	59

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19	From filter paper to carbon paper and toward Li-S battery interlayer. <i>Materials Letters</i> , 2014, 121, 198-201.	1.3	53
20	N-doped porous carbon derived from biomass as an advanced electrocatalyst for aqueous aluminium/air battery. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 16230-16237.	3.8	49
21	Application of Partially Fluorinated Ether for Improving Performance of Lithium/Sulfur Batteries. <i>Journal of the Electrochemical Society</i> , 2015, 162, A1460-A1465.	1.3	46
22	Mesoporous MoSe ₂ /C composite as anode material for sodium/lithium ion batteries. <i>Journal of Electroanalytical Chemistry</i> , 2018, 823, 67-72.	1.9	46
23	High areal capacity cathode and electrolyte reservoir render practical Li-S batteries. <i>Nano Energy</i> , 2017, 38, 137-146.	8.2	42
24	Lithium/sulfur batteries with mixed liquid electrolytes based on ethyl 1,1,2,2-tetrafluoroethyl ether. <i>Electrochimica Acta</i> , 2015, 161, 55-62.	2.6	39
25	Micro-nano structure composite cathode material with high sulfur loading for advanced lithium-sulfur batteries. <i>Electrochimica Acta</i> , 2015, 152, 53-60.	2.6	39
26	Fe/Fe ₃ C@graphitic carbon shell embedded in carbon nanotubes derived from Prussian blue as cathodes for Li-O ₂ batteries. <i>Materials Chemistry Frontiers</i> , 2018, 2, 376-384.	3.2	39
27	A Rational Balance Design of Hybrid Electrolyte Based on Ionic Liquid and Fluorinated Ether in Lithium Sulfur Batteries. <i>Journal of the Electrochemical Society</i> , 2019, 166, A2453-A2458.	1.3	34
28	A hybrid ionic liquid-based electrolyte for high-performance lithium-sulfur batteries. <i>New Journal of Chemistry</i> , 2020, 44, 361-368.	1.4	34
29	Solvate ionic liquid electrolyte with 1,1,2,2-tetrafluoroethyl 2,2,2-trifluoroethyl ether as a support solvent for advanced lithium-sulfur batteries. <i>RSC Advances</i> , 2016, 6, 18186-18190.	1.7	32
30	A binary copper-nickel hierarchical structure templated by metal-organic frameworks for efficient hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 2841-2847.	3.8	30
31	ZrO(NO ₃) ₂ as a functional additive to suppress the diffusion of polysulfides in lithium - Sulfur batteries. <i>Journal of Power Sources</i> , 2019, 442, 227232.	4.0	29
32	Preparation of double-shell Co ₉ S ₈ /Fe ₃ O ₄ embedded in S/N co-decorated hollow carbon nanoellipsoid derived from Bi-Metal organic frameworks for oxygen evolution reaction. <i>Journal of Power Sources</i> , 2018, 391, 59-66.	4.0	27
33	Improvement on electrochemical performance by electrodeposition of polyaniline nanowires at the top end of sulfur electrode. <i>Applied Surface Science</i> , 2013, 285, 900-906.	3.1	25
34	Molecular-level anchoring of polymer cathodes on carbon nanotubes towards rapid-rate and long-cycle sodium-ion storage. <i>Materials Chemistry Frontiers</i> , 2018, 2, 1805-1810.	3.2	24
35	Multifunctional porous VN nanowires interlayer as polysulfides barrier for high performance lithium sulfur batteries. <i>Journal of Electroanalytical Chemistry</i> , 2019, 832, 475-479.	1.9	23
36	Improved performance of sulfur cathode by an easy and scale-up coating strategy. <i>Journal of Power Sources</i> , 2015, 297, 265-270.	4.0	21

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37	Magnetron-sputtering MoS ₂ on carbon paper and its application as interlayer for high-performance lithium sulfur batteries. <i>Journal of Electroanalytical Chemistry</i> , 2018, 823, 537-544.	1.9	21
38	Mesoporous Co-N-C composite as a sulfur host for high-capacity and long-life lithium-sulfur batteries. <i>Journal of Materials Science</i> , 2018, 53, 13143-13155.	1.7	20
39	Benzoselenol as an organic electrolyte additive in Li-S battery. <i>Nano Research</i> , 2023, 16, 3814-3822.	5.8	20
40	The enhanced performance of lithium sulfur battery with ionic liquid-based electrolyte mixed with fluorinated ether. <i>Ionics</i> , 2019, 25, 2685-2691.	1.2	18
41	A multifunctional gel coating design for simultaneous interface amelioration, polysulfide adsorption and redox regulation in lithium-sulfur batteries. <i>Applied Surface Science</i> , 2020, 533, 147490.	3.1	18
42	Featuring surface sodium storage properties of confined MoS ₂ /bacterial cellulose-derived carbon nanofibers anode. <i>Applied Surface Science</i> , 2020, 530, 147261.	3.1	13
43	A new insight into capacity fading of sulfurized polyacrylonitrile composite in carbonate electrolyte. <i>Journal of Electroanalytical Chemistry</i> , 2021, 882, 114964.	1.9	13
44	Synthesis of spherical porous carbon by spray pyrolysis and its application in Li-S batteries. <i>Journal of Solid State Electrochemistry</i> , 2013, 17, 3169-3175.	1.2	12
45	MoSe ₂ nanosheets embedded in mesoporous carbon as anode materials for sodium ion batteries. <i>Ionics</i> , 2019, 25, 3143-3152.	1.2	10
46	Atomically ordered and epitaxially grown surface structure in core-shell NCA/NiAl ₂ O ₄ enabling high voltage cyclic stability for cathode application. <i>Electrochimica Acta</i> , 2019, 300, 437-444.	2.6	10
47	A LiAlO ₂ /nitrogen-doped hollow carbon spheres (NdHCSs) modified separator for advanced lithium-sulfur batteries. <i>RSC Advances</i> , 2018, 8, 1632-1637.	1.7	9
48	Metal coordination enhanced Ni-Co@N-doped porous carbon core-shell microsphere bi-functional electrocatalyst and its application in rechargeable zinc/air batteries. <i>RSC Advances</i> , 2016, 6, 83386-83392.	1.7	8
49	Dispersed iron carbide nanoparticles confined in nitrogen and oxygen co-doped porous carbon framework as efficient electrocatalysts for zinc/air batteries. <i>Journal of Electroanalytical Chemistry</i> , 2020, 873, 114369.	1.9	3
50	Co nanoparticles encapsulated in nitrogen-doped carbon frameworks as an efficient electrocatalyst for oxygen evolution reaction. <i>Ionics</i> , 0, 1.	1.2	0