Yao Shanshan

List of Publications by Year
in descending order

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69 papers	2,816 citations	159585 30 h-index	182427 51 g-index
69 all docs	69 docs citations	69 times ranked	1796 citing authors

#	Article	IF	Citations
1	Hybrid Membrane with SnS₂ Nanoplates Decorated Nitrogen-Doped Carbon Nanofibers as Binder-Free Electrodes with Ultrahigh Sulfur Loading for Lithium Sulfur Batteries. ACS Sustainable Chemistry and Engineering, 2020, 8, 2707-2715.	6.7	151
2	In-situ synthesis of carbon@Ti4O7 non-woven fabric as a multi-functional interlayer for excellent lithium-sulfur battery. Electrochimica Acta, 2018, 263, 158-167.	5.2	124
3	Porous N-doped carbon nanofibers assembled with nickel ferrite nanoparticles as efficient chemical anchors and polysulfide conversion catalyst for lithium-sulfur batteries. Journal of Colloid and Interface Science, 2021, 601, 209-219.	9.4	123
4	Ketjen Black-MnO Composite Coated Separator For High Performance Rechargeable Lithium-Sulfur Battery. Electrochimica Acta, 2016, 192, 346-356.	5.2	122
5	CoFe2O4 nanoparticles loaded N-doped carbon nanofibers networks as electrocatalyst for enhancing redox kinetics in Li-S batteries. Applied Surface Science, 2021, 560, 149908.	6.1	111
6	A freestanding MoO₂-decorated carbon nanofibers interlayer for rechargeable lithium sulfur battery. International Journal of Energy Research, 2019, 43, 1111-1120.	4.5	106
7	TiO2 nanoparticles incorporation in carbon nanofiber as a multi-functional interlayer toward ultralong cycle-life lithium-sulfur batteries. Journal of Alloys and Compounds, 2019, 788, 639-648.	5.5	105
8	Electrospun zeolitic imidazolate framework-derived nitrogen-doped carbon nanofibers with high performance for lithium-sulfur batteries. International Journal of Energy Research, 2019, 43, 1892-1902.	4.5	92
9	Electrospun three-dimensional cobalt decorated nitrogen doped carbon nanofibers network as freestanding electrode for lithium/sulfur batteries. Electrochimica Acta, 2020, 337, 135765.	5.2	89
10	Spinel manganese-cobalt oxide nanospheres anchored on nitrogen-containing carbon nanofibers as a highly efficient redox electrocatalyst in lithium/polysulfides batteries. Applied Surface Science, 2022, 598, 153787.	6.1	78
11	Three-dimension ivy-structured MoS2 nanoflakes-embedded nitrogen doped carbon nanofibers composite membrane as free-standing electrodes for Li/polysulfides batteries. Electrochimica Acta, 2019, 299, 549-559.	5.2	69
12	CoS₂-Decorated Cobalt/Nitrogen Co-Doped Carbon Nanofiber Networks as Dual Functional Electrocatalysts for Enhancing Electrochemical Redox Kinetics in Lithiumâ€“Sulfur Batteries. ACS Sustainable Chemistry and Engineering, 2020, 8, 13600-13609.	6.7	66
13	Functionalization of Nitrogen-Doped Carbon Nanofibers with Polyamidoamine Dendrimer as a Freestanding Electrode with High Sulfur Loading for Lithiumâ€“Polysulfides Batteries. ACS Sustainable Chemistry and Engineering, 2020, 8, 7815-7824.	6.7	65
14	Synthesis of graphitic carbon nitride at different thermal-pyrolysis temperature of urea and it application in lithiumâ€“sulfur batteries. Journal of Materials Science: Materials in Electronics, 2018, 29, 17921-17930.	2.2	64
15	Hydrothermal synthesis of mesoporous MoO2 nanospheres as sulfur matrix for lithium sulfur battery. Journal of Electroanalytical Chemistry, 2019, 833, 441-448.	3.8	64
16	Highâ€performance solid PEO/PPC/LLTOâ€nanowires polymer composite electrolyte for solidâ€state lithium battery. International Journal of Energy Research, 2019, 43, 4854-4866.	4.5	63
17	Shape-controlled synthesis of Ti4O7 nanostructures under solvothermal-assisted heat treatment and its application in lithium-sulfur batteries. Journal of Alloys and Compounds, 2017, 729, 1136-1144.	5.5	55
18	Separator modified by Ketjen black for enhanced electrochemical performance of lithiumâ€“sulfur batteries. RSC Advances, 2016, 6, 13680-13685.	3.6	54

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19	Mg0.6Ni0.4O hollow nanofibers prepared by electrospinning as additive for improving electrochemical performance of lithiumâ€“sulfur batteries. Journal of Alloys and Compounds, 2015, 650, 351-356.	5.5	52
20	Toward high performance solidâ€state lithiumâ€ion battery with a promising <scp>PEO</scp> / <scp>PPC</scp> blend solid polymer electrolyte. International Journal of Energy Research, 2020, 44, 10168-10178.	4.5	47
21	Synthesis, characterization, and electrochemical performance of spherical nanostructure of MagnÃ©li phase Ti4O7. Journal of Materials Science: Materials in Electronics, 2017, 28, 7264-7270.	2.2	44
22	Molybdenum carbide nanocrystals modified carbon nanofibers as electrocatalyst for enhancing polysulfides redox reactions in lithiumâ€sulfur batteries. International Journal of Energy Research, 2020, 44, 8388-8398.	4.5	42
23	Synergistic effect of titaniumâ€oxide integrated with graphitic nitride hybrid for enhanced electrochemical performance in lithiumâ€sulfur batteries. International Journal of Energy Research, 2020, 44, 10937-10945.	4.5	41
24	Modified polysulfides conversion catalysis and confinement by employing La2O3 nanorods in high performance lithium-sulfur batteries. Ceramics International, 2021, 47, 27012-27021.	4.8	40
25	Freestanding graphitic carbon nitrideâ€based carbon nanotubes hybrid membrane as electrode for lithium/polysulfides batteries. International Journal of Energy Research, 2020, 44, 3110-3121.	4.5	39
26	Hollow spherical Lanthanum oxide coated separator for high electrochemical performance lithium-sulfur batteries. Materials Research Bulletin, 2017, 94, 104-112.	5.2	38
27	Fabrication of ultrafine ZnFe2O4 nanoparticles decorated on nitrogen doped carbon nanofibers composite for efficient adsorption/electrocatalysis effect of lithium-sulfur batteries. Electrochimica Acta, 2021, 394, 139126.	5.2	38
28	Lithiumâ€“Sulfur Batteries with High Rate and Cycle Performance by using Multilayered Separators coated with Ketjen Black. Energy Technology, 2017, 5, 623-628.	3.8	36
29	Zn-MOF derived micro/meso porous carbon nanorod for high performance lithiumâ€“sulfur battery. RSC Advances, 2016, 6, 94629-94635.	3.6	35
30	Hybrid cathode composed of pyrite-structure CoS2 hollow polyhedron and Ketjen black@sulfur materials propelling polysulfide conversion in lithium sulfur batteries. Ceramics International, 2021, 47, 27122-27131.	4.8	33
31	Synthesis of graphitic carbon nitride via direct polymerization using different precursors and its application in lithiumâ€“sulfur batteries. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	32
32	Poly(3, 4-ethyleendioxythiophene) coated titanium dioxide nanoparticles in situ synthesis and their application for rechargeable lithium sulfur batteries. Electrochimica Acta, 2017, 252, 461-469.	5.2	31
33	Cubic pyrite nickel sulfide nanospheres decorated with Ketjen black@sulfur composite for promoting polysulfides redox kinetics in lithium-sulfur batteries. Journal of Alloys and Compounds, 2022, 907, 164396.	5.5	31
34	High rate lithium-sulfur batteries enabled by mesoporous TiO2 nanotubes prepared by electrospinning. Materials Research Bulletin, 2017, 95, 402-408.	5.2	30
35	Yttrium oxide nanorods as electrocatalytic polysulfides traps for curbing shuttle effect in lithium-sulfur batteries. Journal of Alloys and Compounds, 2022, 891, 162074.	5.5	30
36	Ketjen Black/Mg0.6Ni0.4O composite coated separator for lithium-sulfur batteries with enhanced electrochemical performance. Materials Letters, 2017, 186, 127-130.	2.6	29

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37	Electrospun Î²-Mo2C/CNFs as an efficient sulfur host for rechargeable lithium sulfur battery. Journal of Materials Science: Materials in Electronics, 2019, 30, 4626-4633.	2.2	29
38	Fabrication of MagnÃ©li phase Ti4O7 nanorods as a functional sulfur material host for lithium-sulfur battery cathode. Journal of Electroceramics, 2020, 44, 154-162.	2.0	29
39	Boosting the performance of poly(ethylene oxide)â€based solid polymer electrolytes by blending with poly(vinylidene fluorideâ€coâ€hexafluoropropylene) for solidâ€state lithiumâ€ion batteries. International Journal of Energy Research, 2020, 44, 7831-7840.	4.5	29
40	Nickel fibers/sulfur composites cathode with enhanced electrochemical performance for rechargeable lithium-sulfur batteries. Electrochimica Acta, 2015, 176, 442-447.	5.2	28
41	CeO₂ nanodots decorated ketjen black for high performance lithiumâ€“sulfur batteries. RSC Advances, 2016, 6, 111190-111196.	3.6	27
42	Separator modified by Y2O3 nanoparticles-Ketjen Black hybrid and its application in lithium-sulfur battery. Journal of Solid State Electrochemistry, 2017, 21, 3229-3236.	2.5	25
43	Polyamidoamine dendrimer modified Ketjen Black mixed sulfur coated cathode for enhancing polysulfides adsorbability in Li-S batteries. Ionics, 2021, 27, 2997-3005.	2.4	25
44	Nanoscale CuFe₂O₄ Uniformly Decorated on Nitrogenâ€Doped Carbon Nanofibers as Highly Efficient Catalysts for Polysulfide Conversion in Lithiumâ€Sulfur Batteries. ChemElectroChem, 2021, 8, 4564-4572.	3.4	25
45	Boosting the electrochemical performance of lithium-sulfur batteries by using a carbon black/LiMn2O4-modified separator. Journal of Alloys and Compounds, 2020, 835, 155251.	5.5	23
46	Separator modified with Ketjenblack-In2O3 nanoparticles for long cycle-life lithium-sulfur batteries. Journal of Solid State Electrochemistry, 2019, 23, 645-656.	2.5	22
47	Mesoporous TiO2 nanosheet with a large amount of exposed {001} facets as sulfur host for high-performance lithiumâ€“sulfur batteries. Journal of Solid State Electrochemistry, 2016, 20, 2161-2168.	2.5	21
48	Characterization and mechanism analysis of AgBr mixed cuboid WO₃ rods with enhanced photocatalytic activity. RSC Advances, 2016, 6, 93436-93444.	3.6	21
49	An Effective Porous Activated Carbon Derived from Puffed Corn Employed as the Separator Coating in a Lithiumâ€“Sulfur Battery. Energy Technology, 2019, 7, 1900752.	3.8	21
50	Synthesis and characterization of electrospun molybdenum dioxideâ€“carbon nanofibers as sulfur matrix additives for rechargeable lithiumâ€“sulfur battery applications. Beilstein Journal of Nanotechnology, 2018, 9, 262-270.	2.8	19
51	Î²â€molybdenum carbide/carbon nanofibers as a shuttle inhibitor for lithiumâ€sulfur battery with high sulfur loading. International Journal of Energy Research, 2019, 43, 7655.	4.5	19
52	Approaching high performance<scp>PVDFâ€HFP</scp>based solid composite electrolytes with<scp>LLTO</scp>nanorods for solidâ€state lithiumâ€ion batteries. International Journal of Energy Research, 2021, 45, 7663-7674.	4.5	18
53	In situ preparation of chromium carbideâ€“modified carbon nanofibers as functional electrocatalyst for polysulfide reduction in lithium/sulfur batteries. Ionics, 2022, 28, 1701-1711.	2.4	18
54	A separator modified by spray-dried hollow spherical cerium oxide and its application in lithium sulfur batteries. RSC Advances, 2016, 6, 114989-114996.	3.6	16

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55	Hybrid of spinel zinc-cobalt oxide nanospheres combined with nitrogen-containing carbon nanofibers as advanced electrocatalyst for redox reaction in lithium/polysulfides batteries. Advanced Powder Technology, 2022, 33, 103710.	4.1	16
56	Fabrication and Characterization of Non-Woven Carbon Nanofibers as Functional Interlayers for Rechargeable Lithium Sulfur Battery. Journal of Nanoscience and Nanotechnology, 2017, 17, 1857-1862.	0.9	14
57	Nanosized <scp> Ti ₄ O ₇ </scp> supported on carbon nanotubes composite modified separator for enhanced electrochemical properties of lithium sulfur battery. International Journal of Energy Research, 2021, 45, 4331-4344.	4.5	14
58	A simple approach to fabricate self-supporting graphene oxide/carbon nanotubes hybrid membrane as efficient polysulfides trapping in lithium/sulfur batteries. Journal of Materials Science: Materials in Electronics, 2022, 33, 12871-12883.	2.2	14
59	Gadolinium oxide nanorods decorated Ketjen black@sulfur composites as functional catalyzing polysulfides conversion in lithium/sulfur batteries. International Journal of Energy Research, 2022, 46, 16050-16060.	4.5	12
60	Improve redox activity and cycling stability of the lithiumâ€sulfur batteries via in situ formation of a spongeâ€like separator modification layer. International Journal of Energy Research, 2020, 44, 4933-4943.	4.5	9
61	Effects of different GO contents in GO@KB-S composite prepared by spray drying method for lithium-sulfur batteries. Ionics, 2020, 26, 2315-2324.	2.4	8
62	Graphene oxide coated nanosheetâ€like Î³â€MnS @ KBâ€S fabricated by spray drying for high energy density Liâ€S batteries. International Journal of Energy Research, 2020, 44, 11274-11287.	4.5	8
63	Decoration of indium tin oxide nanoparticles with different crystal structures and morphologies on polypropylene separator for <scp>Liâ€S</scp> battery. International Journal of Energy Research, 2021, 45, 8992-9005.	4.5	8
64	In situ growth of Co nanoparticles in Ketjen Black for enhanced electrochemical performances of lithium-sulfur battery cathode. Journal of Solid State Electrochemistry, 2021, 25, 1579-1590.	2.5	8
65	A facile synthesis of stable titanium carbide-decorated carbon nanofibers as electrocatalytic membrane for high-performance lithium-sulfur batteries. Ionics, 2022, 28, 1173-1182.	2.4	7
66	Effects of nano-TiO₂ particle size on microstructure and electrochemical performance of TiO₂/PEDOT nanocomposites cathode in lithium-sulphur battery. Materials Technology, 2021, 36, 616-622.	3.0	5
67	The composite of Ketjen black and Ti4O7-modified separator for enhancing the electrochemical properties of lithium sulfur battery. Ionics, 2021, 27, 2397-2408.	2.4	5
68	Photocatalytic Activity of Cuboid WO3 Rods Loaded with AgCl Nanoparticles Under Visible Light Irradiation. Journal of Nanoscience and Nanotechnology, 2017, 17, 5423-5431.	0.9	3
69	Simple fabrication of Ni nanodots decorated Ni/Ketjen black composite for sulfur host in lithiumâ€sulfur battery. International Journal of Energy Research, 2022, 46, 3260-3271.	4.5	1