

Ai-shui Yu

List of Publications by Year in descending order

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132
papers

5,565
citations

57758

44
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132
docs citations

132
times ranked

6831
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis and characterization of $\text{LiNi}_{1-x} \text{Co}_x \text{Mn}_y \text{O}_2$ as the cathode materials of secondary lithium batteries. <i>Journal of Power Sources</i> , 1999, 81-82, 416-419.	7.8	364
2	Carbon-coated SiO_2 nanoparticles as anode material for lithium ion batteries. <i>Journal of Power Sources</i> , 2011, 196, 10240-10243.	7.8	256
3	Nanostructured transition metal oxides as advanced anodes for lithium-ion batteries. <i>Science Bulletin</i> , 2015, 60, 823-838.	9.0	217
4	CaF_2 -coated $\text{Li}_{1.2} \text{Mn}_{0.54} \text{Ni}_{0.13} \text{Co}_{0.13} \text{O}_2$ as cathode materials for Li-ion batteries. <i>Electrochimica Acta</i> , 2013, 109, 52-58.	5.2	172
5	A novel method to prepare nanostructured manganese dioxide and its electrochemical properties as a supercapacitor electrode. <i>Electrochimica Acta</i> , 2009, 54, 3047-3052.	5.2	156
6	Three-dimensional porous Sn-Cu alloy anode for lithium-ion batteries. <i>Electrochimica Acta</i> , 2010, 55, 7310-7314.	5.2	123
7	Mesoporous Fe_2O_3 nanoparticles as high performance anode materials for lithium-ion batteries. <i>Electrochemistry Communications</i> , 2013, 29, 17-20.	4.7	117
8	Ultrasonic-assisted synthesis of Pd-Ni alloy catalysts supported on multi-walled carbon nanotubes for formic acid electrooxidation. <i>Electrochimica Acta</i> , 2011, 56, 6860-6865.	5.2	113
9	Comparative studies of zirconium doping and coating on $\text{LiNi}_{0.6} \text{Co}_{0.2} \text{Mn}_{0.2} \text{O}_2$ cathode material at elevated temperatures. <i>Journal of Power Sources</i> , 2018, 396, 288-296.	7.8	105
10	Propelling Polysulfide Conversion by Defect-Rich MoS_2 Nanosheets for High-Performance Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 20788-20795.	8.0	89
11	Fibriform polyaniline/nano- TiO_2 composite as an electrode material for aqueous redox supercapacitors. <i>Electrochemistry Communications</i> , 2009, 11, 266-269.	4.7	88
12	Factors influencing MnO_2 /multi-walled carbon nanotubes composite's electrochemical performance as supercapacitor electrode. <i>Electrochimica Acta</i> , 2009, 54, 7173-7179.	5.2	86
13	Uncovering the role of Nb modification in improving the structure stability and electrochemical performance of $\text{LiNi}_{0.6} \text{Co}_{0.2} \text{Mn}_{0.2} \text{O}_2$ cathode charged at higher voltage of 4.5V. <i>Journal of Power Sources</i> , 2018, 374, 149-157.	7.8	84
14	Revealing the Effect of Ti Doping on Significantly Enhancing Cyclic Performance at a High Cutoff Voltage for Ni-Rich $\text{LiNi}_{0.8} \text{Co}_{0.15} \text{Al}_{0.05} \text{O}_2$ Cathode. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 10661-10669.	6.7	79
15	A conductive self-healing hydrogel binder for high-performance silicon anodes in lithium-ion batteries. <i>Journal of Power Sources</i> , 2020, 449, 227472.	7.8	79
16	Hierarchically porous honeycomb-like carbon as a lithium-oxygen electrode. <i>Journal of Materials Chemistry A</i> , 2013, 1, 1239-1245.	10.3	77
17	Building better lithium-sulfur batteries: from LiNO_3 to solid oxide catalyst. <i>Scientific Reports</i> , 2016, 6, 33154.	3.3	77
18	Revealing the role of NH_4VO_3 treatment in Ni-rich cathode materials with improved electrochemical performance for rechargeable lithium-ion batteries. <i>Nanoscale</i> , 2018, 10, 8820-8831.	5.6	77

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19	Surface phase transformation and CaF ₂ coating for enhanced electrochemical performance of Li-rich Mn-based cathodes. <i>Electrochimica Acta</i> , 2015, 163, 82-92.	5.2	75
20	Polarization of Oxygen Electrode in Rechargeable Lithium Oxygen Batteries. <i>Journal of the Electrochemical Society</i> , 2010, 157, A362.	2.9	74
21	Carbon-coated Na ₃ V ₂ (PO ₄) ₃ nanocomposite as a novel high rate cathode material for aqueous sodium ion batteries. <i>Journal of Alloys and Compounds</i> , 2015, 646, 522-527.	5.5	73
22	Binder-free phenyl sulfonated graphene/sulfur electrodes with excellent cyclability for lithium sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 5117.	10.3	70
23	Binder-free nitrogen-doped carbon nanotubes electrodes for lithium-oxygen batteries. <i>Journal of Power Sources</i> , 2013, 242, 855-859.	7.8	67
24	A Modified Natural Polysaccharide as a High-Performance Binder for Silicon Anodes in Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 4311-4317.	8.0	67
25	Detection of lithium plating in lithium-ion batteries by distribution of relaxation times. <i>Journal of Power Sources</i> , 2021, 496, 229867.	7.8	65
26	Enhancing the Cycling Stability of Ni-Rich LiNi _{0.6} Co _{0.2} Mn _{0.2} O ₂ Cathode at a High Cutoff Voltage with Ta Doping. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 3082-3090.	6.7	64
27	Carbon-shell-constrained silicon cluster derived from Al-Si alloy as long-cycling life lithium ion batteries anode. <i>Journal of Power Sources</i> , 2018, 381, 66-71.	7.8	63
28	Three-Dimensional Porous Si and SiO ₂ with In Situ Decorated Carbon Nanotubes As Anode Materials for Li-ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 17807-17813.	8.0	62
29	Unraveling the capacity fading mechanisms of LiNi _{0.6} Co _{0.2} Mn _{0.2} O ₂ at elevated temperatures. <i>Journal of Power Sources</i> , 2018, 393, 92-98.	7.8	62
30	Nano-sized La _{0.8} Sr _{0.2} MnO ₃ as oxygen reduction catalyst in nonaqueous Li/O ₂ batteries. <i>Journal of Solid State Electrochemistry</i> , 2012, 16, 1447-1452.	2.5	60
31	Nitrogen-doped porous carbon nanofiber webs/sulfur composites as cathode materials for lithium-sulfur batteries. <i>Electrochimica Acta</i> , 2014, 116, 210-216.	5.2	60
32	Pre-Lithiating SiO Anodes for Lithium-Ion Batteries by a Simple, Effective, and Controllable Strategy Using Stabilized Lithium Metal Powder. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 648-657.	6.7	60
33	Rapid synthesis of porous Pd and PdNi catalysts using hydrogen bubble dynamic template and their enhanced catalytic performance for methanol electrooxidation. <i>Journal of Power Sources</i> , 2013, 241, 660-667.	7.8	54
34	Enhanced Electrochemical Performance of Li _{1.2} Mn _{0.54} Ni _{0.13} Co _{0.13} O ₂ Cathode with an Ionic Conductive LiVO ₃ Coating Layer. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 255-263.	6.7	54
35	Enhancing Electrochemical Performance of LiMn ₂ O ₄ Cathode Material at Elevated Temperature by Uniform Nanosized TiO ₂ Coating. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 640-647.	6.7	54
36	A novel route for preparation of PtRuMe (Me=Fe, Co, Ni) and their catalytic performance for methanol electrooxidation. <i>Electrochemistry Communications</i> , 2009, 11, 643-646.	4.7	53

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37	Carbon-Coated Mesoporous TiO ₂ Nanocrystals Grown on Graphene for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2015, 7, 10395-10400.	8.0	51
38	Enhancing Electrochemical Performance of LiNi _{0.6} Co _{0.2} Mn _{0.2} O ₂ by Lithium-ion Conductor Surface Modification. Electrochimica Acta, 2017, 224, 171-177.	5.2	51
39	Synthesis of nano-sized LiMnPO ₄ and in situ carbon coating using a solvothermal method. Journal of Power Sources, 2013, 229, 203-209.	7.8	48
40	Carbon-free (Co, Mn) ₃ O ₄ nanowires@Ni electrodes for lithium-ion oxygen batteries. Nanoscale, 2014, 6, 9043.	5.6	48
41	Significant Improvement on Electrochemical Performance of LiMn ₂ O ₄ at Elevated Temperature by Atomic Layer Deposition of TiO ₂ Nanocoating. ACS Sustainable Chemistry and Engineering, 2018, 6, 7890-7901.	6.7	47
42	Growth of 3D hierarchical porous NiO@carbon nanoflakes on graphene sheets for high-performance lithium-ion batteries. Physical Chemistry Chemical Physics, 2016, 18, 3893-3899.	2.8	46
43	TiO ₂ nanotube array film prepared by anodization as anode material for lithium ion batteries. Journal of Solid State Electrochemistry, 2010, 14, 1045-1050.	2.5	45
44	Fe doped Li _{1.2} Mn _{0.6-x} /2Ni _{0.2-x} /2FexO ₂ (x=0.1) as cathode materials for lithium-ion batteries. Electrochimica Acta, 2014, 133, 555-563.	5.2	45
45	H ₃ BO ₃ washed LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ with enhanced electrochemical performance and storage characteristics. Journal of Power Sources, 2021, 482, 228940.	7.8	45
46	De-doped polyaniline nanofibres with micropores for high-rate aqueous electrochemical capacitor. Synthetic Metals, 2010, 160, 1579-1583.	3.9	44
47	Polyaniline membranes as waterproof barriers for lithium air batteries. Electrochimica Acta, 2012, 78, 195-199.	5.2	41
48	Carbon coated TiO ₂ @SiO ₂ nanocomposites with high grain boundary density as anode materials for lithium-ion batteries. Journal of Materials Chemistry A, 2013, 1, 7360.	10.3	41
49	Preparation of carbon supported Pd@Pb hollow nanospheres and their electrocatalytic activities for formic acid oxidation. Electrochemistry Communications, 2010, 12, 901-904.	4.7	40
50	Revealing the Role of W-Doping in Enhancing the Electrochemical Performance of the LiNi _{0.6} Co _{0.2} Mn _{0.2} O ₂ Cathode at 4.5 V. ACS Applied Materials & Interfaces, 2021, 13, 7308-7316.	8.0	40
51	Fabrication and electrochemical properties of Si/TiO ₂ nanowire array composites as lithium ion battery anodes. Journal of Power Sources, 2013, 238, 165-172.	7.8	38
52	Dynamic evolution of Cathode-Electrolyte interface of LiNi _{0.6} Co _{0.2} Mn _{0.2} O ₂ during the initial Charge-Discharge process. Journal of Power Sources, 2019, 438, 226979.	7.8	37
53	Ultrathin SiO ₂ Coating Layer to Stabilize the Surface Structure and Prolong the Cycling Life of Single-Crystal LiNi _{0.6} Co _{0.2} Mn _{0.2} O ₂ Cathode Materials at 4.5 V. ACS Applied Materials & Interfaces, 2021, 13, 10952-10963.	8.0	37
54	Enhancing the performance of LiMnPO ₄ /C composites through Cr doping. Journal of Alloys and Compounds, 2015, 620, 350-357.	5.5	35

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55	Design and synthesis of Cu ₆ Sn ₅ -coated TiO ₂ nanotube arrays as anode material for lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2011, 21, 3216.	6.7	34
56	Three-Dimensional Flower-Shaped Activated Porous Carbon/Sulfur Composites as Cathode Materials for Lithium-Sulfur Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 2442-2447.	6.7	34
57	Synthesis and Electrochemical Performance of Nano-sized Li ₄ Ti ₅ O ₁₂ Coated with Boron-Doped Carbon. <i>Electrochimica Acta</i> , 2016, 196, 300-308.	5.2	34
58	Al ₂ O ₃ -doped ZnO coating of carbon nanotubes as cathode material for lithium-sulfur batteries. <i>Journal of Power Sources</i> , 2018, 398, 75-82.	7.8	34
59	Three-dimensional MoS _x (1 <math>x < 2</math>) nanosheets decorated graphene aerogel for lithium-oxygen batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 10986-10991.	10.3	33
60	Synthesis of flower-like LiMnPO ₄ /C with precipitated NH ₄ MnPO ₄ ·H ₂ O as precursor. <i>Journal of Alloys and Compounds</i> , 2012, 518, 58-62.	5.5	32
61	Facile synthesis of Sn/TiO ₂ nanowire array composites as superior lithium-ion battery anodes. <i>Journal of Power Sources</i> , 2013, 223, 50-55.	7.8	32
62	New electrochemical energy storage systems based on metallic lithium anode—the research status, problems and challenges of lithium-sulfur, lithium-oxygen and all solid state batteries. <i>Science China Chemistry</i> , 2017, 60, 1402-1412.	8.2	32
63	Self-Sacrificed Interface-Based on the Flexible Composite Electrolyte for High-Performance All-Solid-State Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 42715-42721.	8.0	31
64	A carboxymethyl vegetable gum as a robust water soluble binder for silicon anodes in lithium-ion batteries. <i>Journal of Power Sources</i> , 2021, 489, 229530.	7.8	31
65	Effect of Organic Electrolyte on the Performance of Solid Electrolyte for Solid-Liquid Hybrid Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 2685-2693.	8.0	30
66	Hierarchical hollow Fe ₂ O ₃ micro-flowers composed of porous nanosheets as high performance anodes for lithium-ion batteries. <i>RSC Advances</i> , 2013, 3, 20639.	3.6	28
67	Enhanced Electrochemical Performance of LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ Cathode for Lithium-Ion Batteries by Precursor Preoxidation. <i>ACS Applied Energy Materials</i> , 2018, 1, 4374-4384.	5.1	28
68	LiTFSI Concentration Optimization in TEGDME Solvent for Lithium-Oxygen Batteries. <i>ACS Omega</i> , 2019, 4, 20708-20714.	3.5	27
69	Reducing interfacial resistance of a Li _{1.5} Al _{0.5} Ge _{1.5} (PO ₄) ₃ solid electrolyte/electrode interface by polymer interlayer protection. <i>RSC Advances</i> , 2020, 10, 10038-10045.	3.6	27
70	Surface noble metal modified PdM/C (M= Ru, Pt, Au) as anode catalysts for direct ethanol fuel cells. <i>Journal of Alloys and Compounds</i> , 2016, 676, 390-396.	5.5	26
71	Electrochemical surface modification on CuPdAu/C with extraordinary behavior toward formic acid/formate oxidation. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 13190-13196.	7.1	26
72	Effect of heat treatment on the structure and electrochemical performance of FePO ₄ coated spinel LiMn ₂ O ₄ . <i>Electrochimica Acta</i> , 2013, 113, 248-255.	5.2	25

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73	Sulfur Encapsulated in Mo ₄ O ₁₁ -Anchored Ultralight Graphene for High-Energy Lithium Sulfur Batteries. ACS Sustainable Chemistry and Engineering, 2016, 4, 3679-3687.	6.7	25
74	Fabrication of morphology controllable rutile TiO ₂ nanowire arrays by solvothermal route for dye-sensitized solar cells. Electrochimica Acta, 2011, 56, 7696-7702.	5.2	24
75	A polydopamine coating ultralight graphene matrix as a highly effective polysulfide absorbent for high-energy Li S batteries. Renewable Energy, 2016, 96, 333-340.	8.9	24
76	Facile preparation of three-dimensional porous Pd@Au films and their electrocatalytic activity for methanol oxidation. Catalysis Communications, 2016, 73, 22-26.	3.3	24
77	Cost-effective production of SiO ₂ /C and Si/C composites derived from rice husk for advanced lithium-ion battery anodes. Journal of Materials Science: Materials in Electronics, 2020, 31, 9126-9132.	2.2	24
78	Dopamine-modified carboxymethyl cellulose as an improved aqueous binder for silicon anodes in lithium-ion batteries. Electrochimica Acta, 2021, 389, 138806.	5.2	23
79	Ultrafast-charging and long cycle-life anode materials of TiO ₂ -bronze/nitrogen-doped graphene nanocomposites for high-performance lithium-ion batteries. RSC Advances, 2020, 10, 43811-43824.	3.6	23
80	Synthesis and effect of electrode heat-treatment on the superior lithium storage performance of Co ₃ O ₄ nanoparticles. Journal of Power Sources, 2015, 273, 894-903.	7.8	22
81	Pyridinic-N-dominated carbon frameworks with porous tungsten trioxide nano-lamellae as a promising bi-functional catalyst for Li-O ₂ batteries. Nanoscale, 2018, 10, 15763-15770.	5.6	21
82	Surface Palladium rich Cu _x Pd _y /carbon catalysts for methanol and ethanol oxidation in alkaline media. Electrochimica Acta, 2015, 174, 1-7.	5.2	20
83	Dithiothreitol as a promising electrolyte additive to suppress the "shuttle effect" by slicing the disulfide bonds of polysulfides in lithium-sulfur batteries. Journal of Power Sources, 2019, 424, 254-260.	7.8	20
84	Improved electrochemical performance of anode materials for high energy density lithium-ion batteries through Sn(SnO ₂)@SiO ₂ /graphene-based nanocomposites prepared by a facile and low-cost approach. Sustainable Energy and Fuels, 2020, 4, 4625-4636.	4.9	20
85	AC impedance investigation of plating potentials on the catalytic activities of Pt nanocatalysts for methanol electrooxidation. Journal of Solid State Electrochemistry, 2010, 14, 101-107.	2.5	19
86	A new, high energy rechargeable lithium ion battery with a surface-treated Li _{1.2} Mn _{0.54} Ni _{0.13} Co _{0.13} O ₂ cathode and a nano-structured Li ₄ Ti ₅ O ₁₂ anode. Journal of Alloys and Compounds, 2015, 648, 7-12.	5.5	18
87	Synthesis of well-dispersed PtRuSnO _x by ultrasonic-assisted chemical reduction and its property for methanol electrooxidation. Electrochimica Acta, 2009, 54, 4436-4440.	5.2	17
88	Understanding the effects of surface modification on improving the high-voltage performance of Ni-rich cathode materials. Materials Today Energy, 2018, 10, 40-47.	4.7	17
89	Electrochemical performance and stability of LiMn _{0.6} Fe _{0.4} PO ₄ /C composite. Journal of Alloys and Compounds, 2014, 587, 133-137.	5.5	16
90	Natural sesbania gum as an efficient biopolymer binder for high-performance Si-based anodes in lithium-ion batteries. Journal of Power Sources, 2022, 539, 231604.	7.8	16

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91	A hierarchical porous MnO ₂ -based electrode for electrochemical capacitor. <i>Journal of Solid State Electrochemistry</i> , 2011, 15, 485-491.	2.5	15
92	Uniform Deposition and Effective Confinement of Lithium in Three-Dimensional Interconnected Microchannels for Stable Lithium Metal Anodes. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 39311-39321.	8.0	15
93	A new type of cyclic silicone additive for improving the energy density and power density of Li ⁺ O ₂ batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7221-7226.	10.3	14
94	Artificial solid-electrolyte interface facilitating uniform Zn deposition by promoting chemical adsorption. <i>Science China Materials</i> , 2022, 65, 663-674.	6.3	14
95	Double-Protected Layers with Solid-Liquid Hybrid Electrolytes for Long-Cycle-Life Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 4170-4178.	8.0	14
96	Rice husk-derived nano-SiO ₂ assembled on reduced graphene oxide distributed on conductive flexible polyaniline frameworks towards high-performance lithium-ion batteries. <i>RSC Advances</i> , 2022, 12, 14621-14630.	3.6	14
97	Nitrogen-Doped Carbon-Coating Disproportionated SiO Materials as Long Cycling Stable Anode for Lithium Ion Batteries. <i>Molecules</i> , 2021, 26, 1536.	3.8	13
98	Electro-oxidation of methanol on co-deposited Pt-MoO _x prepared by cyclic voltammetry with different scanning potential ranges. <i>Journal of Applied Electrochemistry</i> , 2009, 39, 1053-1058.	2.9	12
99	Rational design of a hierarchical N-doped graphene-supported catalyst for highly energy-efficient lithium-oxygen batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 19745-19752.	10.3	12
100	Well-defined carbon nanoframes containing bimetal-N-C active sites as efficient bi-functional electrocatalysts for Li-O ₂ batteries. <i>Nano Research</i> , 2019, 12, 517-523.	10.4	12
101	Application of In Situ Raman and Fourier Transform Infrared Spectroelectrochemical Methods on the Electrode-Electrolyte Interface for Lithium-Oxygen Batteries. <i>Batteries and Supercaps</i> , 2021, 4, 850-859.	4.7	12
102	Nano-TiO ₂ coated single-crystal LiNi _{0.65} Co _{0.15} Mn _{0.2} O ₂ for lithium-ion batteries with a stable structure and excellent cycling performance at a high cut-off voltage. <i>Journal of Materials Chemistry A</i> , 2022, 10, 5631-5641.	10.3	12
103	Electrodeposited Pd-MoO _x catalysts with enhanced catalytic activity for formic acid electrooxidation. <i>Electrochimica Acta</i> , 2012, 76, 292-299.	5.2	11
104	Facile synthesis of trimetallic Cu ₁ Au _{0.15} Pd _{1.5} /C catalyst for ethanol oxidation with superior activity and stability. <i>Journal of Materials Chemistry A</i> , 2014, 2, 16378-16380.	10.3	11
105	Effect of fluoroethylene carbonate as an electrolyte solvent in the LiNi _{0.5} Mn _{1.5} O ₄ /Li ₄ Ti ₅ O ₁₂ cell. <i>Journal of Alloys and Compounds</i> , 2020, 812, 152064.	5.5	11
106	Comparative Studies of Polycrystal and Single-Crystal LiNi _{0.6} Co _{0.2} Mn _{0.2} O ₂ in Terms of Physical and Electrochemical Performance. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 11748-11757.	6.7	11
107	In Situ Room-Temperature Cross-Linked Highly Branched Biopolymeric Binder Based on the Diels-Alder Reaction for High-Performance Silicon Anodes in Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 56095-56108.	8.0	11
108	High power lithium-ion battery based on a LiMn ₂ O ₄ nanorod cathode and a carbon-coated Li ₄ Ti ₅ O ₁₂ nanowire anode. <i>RSC Advances</i> , 2016, 6, 107355-107363.	3.6	10

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109	Mesoporous Co@CoO@NC Microdisk Derived from ZIF-9 as Bifunctional Catalyst for Lithium-Oxygen Batteries. <i>ChemistrySelect</i> , 2018, 3, 9276-9283.	1.5	10
110	Ruthenium Oxide Modified alpha-Manganese Dioxide Nanotube as Efficient Bifunctional Cathode Catalysts for Lithium Oxygen Batteries. <i>ChemistrySelect</i> , 2019, 4, 7455-7462.	1.5	10
111	Porous calcium-manganese oxide/carbon nanotube microspheres as efficient oxygen reduction catalysts for rechargeable zinc-air batteries. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 2052-2060.	6.0	10
112	Ruthenium oxide modified hierarchically porous boron-doped graphene aerogels as oxygen electrodes for lithium-oxygen batteries. <i>RSC Advances</i> , 2018, 8, 39829-39836.	3.6	9
113	Enhancing the air stability of LiNi _{0.6} Co _{0.2} Mn _{0.2} O ₂ cathode through WO ₃ /Li ₂ WO ₄ surface modification. <i>Journal of Power Sources</i> , 2021, 514, 230605.	7.8	9
114	Comparative performance of LiFePO ₄ and LiNi _{0.6} Co _{0.2} Mn _{0.2} O ₂ cathode materials for lithium batteries with solid-liquid hybrid electrolytes. <i>Journal of Power Sources</i> , 2021, 515, 230639.	7.8	9
115	Fast-Charging Anode Materials and Novel Nanocomposite Design of Rice Husk-Derived SiO ₂ and Sn Nanoparticles Self-Assembled on TiO ₂ (B) Nanorods for Lithium-Ion Storage Applications. <i>ACS Omega</i> , 2022, 7, 1357-1367.	3.5	9
116	Synergistic effect of amorphous carbon coverage and enlarged voltage window on the superior lithium storage performance of nanostructured mesoporous anatase TiO ₂ : Emphasis on interfacial storage phenomena. <i>Journal of Alloys and Compounds</i> , 2014, 606, 61-67.	5.5	8
117	Polyaniline-coated partially unzipped vapor-grown carbon fibers/sulfur microsphere composites for Li-S cathodes. <i>Journal of Electroanalytical Chemistry</i> , 2016, 761, 62-67.	3.8	8
118	LiFePO ₄ -coated LiNi _{0.6} Co _{0.2} Mn _{0.2} O ₂ for lithium-ion batteries with enhanced cycling performance at elevated temperatures and high voltages. <i>RSC Advances</i> , 2020, 10, 37916-37922.	3.6	8
119	Enhancement in lithium storage performances of SiO ₂ /graphene-based Nanocomposites prepared by low cost and facile approach. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 6536-6548.	2.2	7
120	A low-temperature coating method with H ₃ BO ₃ for enhanced electrochemical performance of Ni-rich LiNi _{0.82} Co _{0.12} Mn _{0.06} O ₂ cathode. <i>Electrochimica Acta</i> , 2022, 422, 140564.	5.2	7
121	Surface-reinforced NCM811 with enhanced electrochemical performance for Li-ion batteries. <i>Journal of Alloys and Compounds</i> , 2022, 918, 165488.	5.5	7
122	Zn-Fe-O@C hollow microspheres as a high performance anode material for lithium-ion batteries. <i>RSC Advances</i> , 2017, 7, 5459-5465.	3.6	6
123	Effects of Co/Mn Content Variation on Structural and Electrochemical Properties of Single-Crystal Ni-Rich Layered Oxide Materials for Lithium Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 24620-24635.	8.0	6
124	Structure and Catalyst Effects on the Electrochemical Performance of Air Electrodes in Lithium-Oxygen Batteries. <i>ChemElectroChem</i> , 2018, 5, 2666-2671.	3.4	5
125	Ultradispersed titanium dioxide nanoparticles embedded in a three-dimensional graphene aerogel for high performance sulfur cathodes. <i>RSC Advances</i> , 2019, 9, 6568-6575.	3.6	5
126	Surface platinum-rich CuPt bimetallic nanoparticles supported by partially unzipped vapor grown carbon fibers and their electrocatalytic activities. <i>RSC Advances</i> , 2014, 4, 29429-29434.	3.6	4

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127	Facile Synthesis Sandwich-Structured Ge/NrGO Nanocomposite as Anodes for High-Performance Lithium-Ion Batteries. Crystals, 2021, 11, 1582.	2.2	4
128	Transformation of SnS Nanocomposites to Sn and S Nanoparticles during Lithiation. Crystals, 2021, 11, 145.	2.2	3
129	PROPORTIONAL EFFECT IN SbSi/N-DOPED GRAPHENE NANOCOMPOSITE PREPARATION FOR HIGH-PERFORMANCE LITHIUM-ION BATTERIES. Surface Review and Letters, 2021, 28, .	1.1	2
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