Ai-shui Yu

List of Publications by Year
in descending order

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132	5,565	57631	95083
papers	citations	44 h-index	68 g-index

132	132	132	6831
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Synthesis and characterization of LiNi1â^'xâ^'yCoxMnyO2 as the cathode materials of secondary lithium batteries. Journal of Power Sources, 1999, 81-82, 416-419.	4.0	364
2	Carbon-coated SiO2 nanoparticles as anode material for lithium ion batteries. Journal of Power Sources, 2011, 196, 10240-10243.	4.0	256
3	Nanostructured transition metal oxides as advanced anodes for lithium-ion batteries. Science Bulletin, 2015, 60, 823-838.	4.3	217
4	CaF2-coated Li1.2Mn0.54Ni0.13Co0.13O2 as cathode materials for Li-ion batteries. Electrochimica Acta, 2013, 109, 52-58.	2.6	172
5	A novel method to prepare nanostructured manganese dioxide and its electrochemical properties as a supercapacitor electrode. Electrochimica Acta, 2009, 54, 3047-3052.	2.6	156
6	Three-dimensional porous Snâ€“Cu alloy anode for lithium-ion batteries. Electrochimica Acta, 2010, 55, 7310-7314.	2.6	123
7	Mesoporous Fe2O3 nanoparticles as high performance anode materials for lithium-ion batteries. Electrochemistry Communications, 2013, 29, 17-20.	2.3	117
8	Ultrasonic-assisted synthesis of Pdâ€“Ni alloy catalysts supported on multi-walled carbon nanotubes for formic acid electrooxidation. Electrochimica Acta, 2011, 56, 6860-6865.	2.6	113
9	Comparative studies of zirconium doping and coating on LiNi0.6Co0.2Mn0.2O2 cathode material at elevated temperatures. Journal of Power Sources, 2018, 396, 288-296.	4.0	105
10	Propelling Polysulfide Conversion by Defect-Rich MoS₂ Nanosheets for High-Performance Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2019, 11, 20788-20795.	4.0	89
11	Fibriform polyaniline/nano-TiO2 composite as an electrode material for aqueous redox supercapacitors. Electrochemistry Communications, 2009, 11, 266-269.	2.3	88
12	Factors influencing MnO2/multi-walled carbon nanotubes composite's electrochemical performance as supercapacitor electrode. Electrochimica Acta, 2009, 54, 7173-7179.	2.6	86
13	Uncovering the role of Nb modification in improving the structure stability and electrochemical performance of LiNi 0.6 Co 0.2 Mn 0.2 O 2 cathode charged at higher voltage of 4.5ÂV. Journal of Power Sources, 2018, 374, 149-157.	4.0	84
14	Revealing the Effect of Ti Doping on Significantly Enhancing Cyclic Performance at a High Cutoff Voltage for Ni-Rich LiNi_{0.8}Co_{0.15}Al_{0.05}O₂ Cathode. ACS Sustainable Chemistry and Engineering, 2019, 7, 10661-10669.	3.2	79
15	A conductive self-healing hydrogel binder for high-performance silicon anodes in lithium-ion batteries. Journal of Power Sources, 2020, 449, 227472.	4.0	79
16	Hierarchically porous honeycomb-like carbon as a lithiumâ€“oxygen electrode. Journal of Materials Chemistry A, 2013, 1, 1239-1245.	5.2	77
17	Building better lithium-sulfur batteries: from LiNO3 to solid oxide catalyst. Scientific Reports, 2016, 6, 33154.	1.6	77
18	Revealing the role of NH₄VO₃ treatment in Ni-rich cathode materials with improved electrochemical performance for rechargeable lithium-ion batteries. Nanoscale, 2018, 10, 8820-8831.	2.8	77

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19	Surface phase transformation and CaF2 coating for enhanced electrochemical performance of Li-rich Mn-based cathodes. Electrochimica Acta, 2015, 163, 82-92.	2.6	75
20	Polarization of Oxygen Electrode in Rechargeable Lithium Oxygen Batteries. Journal of the Electrochemical Society, 2010, 157, A362.	1.3	74
21	Carbon-coated Na3V2(PO4)3 nanocomposite as a novel high rate cathode material for aqueous sodium ion batteries. Journal of Alloys and Compounds, 2015, 646, 522-527.	2.8	73
22	Binder-free phenyl sulfonated graphene/sulfur electrodes with excellent cyclability for lithium sulfur batteries. Journal of Materials Chemistry A, 2014, 2, 5117.	5.2	70
23	Binder-free nitrogen-doped carbon nanotubes electrodes forÂlithium-oxygen batteries. Journal of Power Sources, 2013, 242, 855-859.	4.0	67
24	A Modified Natural Polysaccharide as a High-Performance Binder for Silicon Anodes in Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2019, 11, 4311-4317.	4.0	67
25	Detection of lithium plating in lithium-ion batteries by distribution of relaxation times. Journal of Power Sources, 2021, 496, 229867.	4.0	65
26	Enhancing the Cycling Stability of Ni-Rich LiNi_{0.6}Co_{0.2}Mn_{0.2}O₂ Cathode at a High Cutoff Voltage with Ta Doping. ACS Sustainable Chemistry and Engineering, 2020, 8, 3082-3090.	3.2	64
27	Carbon-shell-constrained silicon cluster derived from Al-Si alloy as long-cycling life lithium ion batteries anode. Journal of Power Sources, 2018, 381, 66-71.	4.0	63
28	Three-Dimensional Porous Si and SiO₂ with In Situ Decorated Carbon Nanotubes As Anode Materials for Li-ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 17807-17813.	4.0	62
29	Unraveling the capacity fading mechanisms of LiNi0.6Co0.2Mn0.2O2 at elevated temperatures. Journal of Power Sources, 2018, 393, 92-98.	4.0	62
30	Nano-sized La0.8Sr0.2MnO3 as oxygen reduction catalyst in nonaqueous Li/O2 batteries. Journal of Solid State Electrochemistry, 2012, 16, 1447-1452.	1.2	60
31	Nitrogen-doped porous carbon nanofiber webs/sulfur composites as cathode materials for lithium-sulfur batteries. Electrochimica Acta, 2014, 116, 210-216.	2.6	60
32	Pre-Lithiating SiO Anodes for Lithium-Ion Batteries by a Simple, Effective, and Controllable Strategy Using Stabilized Lithium Metal Powder. ACS Sustainable Chemistry and Engineering, 2021, 9, 648-657.	3.2	60
33	Rapid synthesis of porous Pd and PdNi catalysts using hydrogen bubble dynamic template and their enhanced catalytic performance for methanol electrooxidation. Journal of Power Sources, 2013, 241, 660-667.	4.0	54
34	Enhanced Electrochemical Performance of Li_{1.2}Mn_{0.54}Ni_{0.13}Co_{0.13}O₂ Cathode with an Ionic Conductive LiVO₃ Coating Layer. ACS Sustainable Chemistry and Engineering, 2016, 4, 255-263.	3.2	54
35	Enhancing Electrochemical Performance of LiMn₂O₄ Cathode Material at Elevated Temperature by Uniform Nanosized TiO₂ Coating. ACS Sustainable Chemistry and Engineering, 2017, 5, 640-647.	3.2	54
36	A novel route for preparation of PtRuMe (Me=Fe, Co, Ni) and their catalytic performance for methanol electrooxidation. Electrochemistry Communications, 2009, 11, 643-646.	2.3	53

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37	Carbon-Coated Mesoporous TiO₂ Nanocrystals Grown on Graphene for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2015, 7, 10395-10400.	4.0	51
38	Enhancing Electrochemical Performance of LiNi0.6Co0.2Mn0.2O2 by Lithium-ion Conductor Surface Modification. Electrochimica Acta, 2017, 224, 171-177.	2.6	51
39	Synthesis of nano-sized LiMnPO4 and in situ carbon coating using a solvothermal method. Journal of Power Sources, 2013, 229, 203-209.	4.0	48
40	Carbon-free (Co, Mn)₃O₄nanowires@Ni electrodes for lithiumâ€“oxygen batteries. Nanoscale, 2014, 6, 9043.	2.8	48
41	Significant Improvement on Electrochemical Performance of LiMn₂O₄ at Elevated Temperature by Atomic Layer Deposition of TiO₂ Nanocoating. ACS Sustainable Chemistry and Engineering, 2018, 6, 7890-7901.	3.2	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.	1.3	46
43	TiO2 nanotube array film prepared by anodization as anode material for lithium ion batteries. Journal of Solid State Electrochemistry, 2010, 14, 1045-1050.	1.2	45
44	Fe doped Li1.2Mn0.6-x/2Ni0.2-x/2FexO2 (xâ‰0.1) as cathode materials for lithium-ion batteries. Electrochimica Acta, 2014, 133, 555-563.	2.6	45
45	H3BO3 washed LiNi0.8Co0.1Mn0.1O2 with enhanced electrochemical performance and storage characteristics. Journal of Power Sources, 2021, 482, 228940.	4.0	45
46	De-doped polyaniline nanofibres with micropores for high-rate aqueous electrochemical capacitor. Synthetic Metals, 2010, 160, 1579-1583.	2.1	44
47	Polyaniline membranes as waterproof barriers for lithium air batteries. Electrochimica Acta, 2012, 78, 195-199.	2.6	41
48	Carbon coated TiO2â€“SiO2 nanocomposites with high grain boundary density as anode materials for lithium-ion batteries. Journal of Materials Chemistry A, 2013, 1, 7360.	5.2	41
49	Preparation of carbon supported Pdâ€“Pb hollow nanospheres and their electrocatalytic activities for formic acid oxidation. Electrochemistry Communications, 2010, 12, 901-904.	2.3	40
50	Revealing the Role of W-Doping in Enhancing the Electrochemical Performance of the LiNi_{0.6}Co_{0.2}Mn_{0.2}O₂ Cathode at 4.5 V. ACS Applied Materials & Interfaces, 2021, 13, 7308-7316.	4.0	40
51	Fabrication and electrochemical properties of Si/TiO2 nanowire array composites as lithium ion battery anodes. Journal of Power Sources, 2013, 238, 165-172.	4.0	38
52	Dynamic evolution of Cathodeâ^'Electrolyte interface of LiNi0.6Co0.2Mn0.2O2 during the initial Chargeâ^'Discharge process. Journal of Power Sources, 2019, 438, 226979.	4.0	37
53	Ultrathin Liâ€“Siâ€“O Coating Layer to Stabilize the Surface Structure and Prolong the Cycling Life of Single-Crystal LiNi_{0.6}Co_{0.2}Mn_{0.2}O₂ Cathode Materials at 4.5 V. ACS Applied Materials & Interfaces, 2021, 13, 10952-10963.	4.0	37
54	Enhancing the performance of LiMnPO4/C composites through Cr doping. Journal of Alloys and Compounds, 2015, 620, 350-357.	2.8	35

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55	Design and synthesis of Cu6Sn5-coated TiO2 nanotube arrays as anode material for lithium ion batteries. Journal of Materials Chemistry, 2011, 21, 3216.	6.7	34
56	Three-Dimensional Flower-Shaped Activated Porous Carbon/Sulfur Composites as Cathode Materials for Lithiumâ€“Sulfur Batteries. ACS Sustainable Chemistry and Engineering, 2014, 2, 2442-2447.	3.2	34
57	Synthesis and Electrochemical Performance of Nano-sized Li4Ti5O12 Coated with Boron-Doped Carbon. Electrochimica Acta, 2016, 196, 300-308.	2.6	34
58	Al 2 O 3 -doped ZnO coating of carbon nanotubes as cathode material for lithium-sulfur batteries. Journal of Power Sources, 2018, 398, 75-82.	4.0	34
59	Three-dimensional MoS_x(1 < x < 2) nanosheets decorated graphene aerogel for lithiumâ€“oxygen batteries. Journal of Materials Chemistry A, 2016, 4, 10986-10991.	5.2	33
60	Synthesis of flower-like LiMnPO4/C with precipitated NH4MnPO4Â·H2O as precursor. Journal of Alloys and Compounds, 2012, 518, 58-62.	2.8	32
61	Facile synthesis of Sn/TiO2 nanowire array composites as superior lithium-ion battery anodes. Journal of Power Sources, 2013, 223, 50-55.	4.0	32
62	New electrochemical energy storage systems based on metallic lithium anodeâ€”the research status, problems and challenges of lithium-sulfur, lithium-oxygen and all solid state batteries. Science China Chemistry, 2017, 60, 1402-1412.	4.2	32
63	Self-Sacrificed Interface-Based on the Flexible Composite Electrolyte for High-Performance All-Solid-State Lithium Batteries. ACS Applied Materials & Interfaces, 2019, 11, 42715-42721.	4.0	31
64	A carboxymethyl vegetable gum as a robust water soluble binder for silicon anodes in lithium-ion batteries. Journal of Power Sources, 2021, 489, 229530.	4.0	31
65	Effect of Organic Electrolyte on the Performance of Solid Electrolyte for Solidâ€“Liquid Hybrid Lithium Batteries. ACS Applied Materials & Interfaces, 2021, 13, 2685-2693.	4.0	30
66	Hierarchical hollow Fe2O3 micro-flowers composed of porous nanosheets as high performance anodes for lithium-ion batteries. RSC Advances, 2013, 3, 20639.	1.7	28
67	Enhanced Electrochemical Performance of LiNi_{0.8}Co_{0.1}Mn_{0.1}O₂ Cathode for Lithium-Ion Batteries by Precursor Preoxidation. ACS Applied Energy Materials, 2018, 1, 4374-4384.	2.5	28
68	LiTFSI Concentration Optimization in TEGDME Solvent for Lithiumâ€“Oxygen Batteries. ACS Omega, 2019, 4, 20708-20714.	1.6	27
69	Reducing interfacial resistance of a Li_{1.5}Al_{0.5}Ge_{1.5}(PO₄)₃ solid electrolyte/electrode interface by polymer interlayer protection. RSC Advances, 2020, 10, 10038-10045.	1.7	27
70	Surface noble metal modified PdM/C (MÂ=ÂRu, Pt, Au) as anode catalysts for direct ethanol fuel cells. Journal of Alloys and Compounds, 2016, 676, 390-396.	2.8	26
71	Electrochemical surface modification on CuPdAu/C with extraordinary behavior toward formic acid/formate oxidation. International Journal of Hydrogen Energy, 2016, 41, 13190-13196.	3.8	26
72	Effect of heat treatment on the structure and electrochemical performance of FePO4 coated spinel LiMn2O4. Electrochimica Acta, 2013, 113, 248-255.	2.6	25

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73	Sulfur Encapsulated in Mo₄O₁₁-Anchored Ultralight Graphene for High-Energy Lithium Sulfur Batteries. ACS Sustainable Chemistry and Engineering, 2016, 4, 3679-3687.	3.2	25
74	Fabrication of morphology controllable rutile TiO2 nanowire arrays by solvothermal route for dye-sensitized solar cells. Electrochimica Acta, 2011, 56, 7696-7702.	2.6	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.	4.3	24
76	Facile preparation of three-dimensional porous Pdâ€“Au films and their electrocatalytic activity for methanol oxidation. Catalysis Communications, 2016, 73, 22-26.	1.6	24
77	Cost-effective production of SiO2/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.	1.1	24
78	Dopamine-modified carboxymethyl cellulose as an improved aqueous binder for silicon anodes in lithium-ion batteries. Electrochimica Acta, 2021, 389, 138806.	2.6	23
79	Ultrafast-charging and long cycle-life anode materials of TiO₂-bronze/nitrogen-doped graphene nanocomposites for high-performance lithium-ion batteries. RSC Advances, 2020, 10, 43811-43824.	1.7	23
80	Synthesis and effect of electrode heat-treatment on the superior lithium storage performance of Co3O4 nanoparticles. Journal of Power Sources, 2015, 273, 894-903.	4.0	22
81	Pyridinic-N-dominated carbon frameworks with porous tungsten trioxide nano-lamellae as a promising bi-functional catalyst for Liâ€“oxygen batteries. Nanoscale, 2018, 10, 15763-15770.	2.8	21
82	Surface Palladium rich CuxPdy/carbon catalysts for methanol and ethanol oxidation in alkaline media. Electrochimica Acta, 2015, 174, 1-7.	2.6	20
83	Dithiothreitol as a promising electrolyte additive to suppress the â€œshuttle effectâ€•by slicing the disulfide bonds of polysulfides in lithium-sulfur batteries. Journal of Power Sources, 2019, 424, 254-260.	4.0	20
84	Improved electrochemical performance of anode materials for high energy density lithium-ion batteries through Sn(SnO₂)â€“SiO₂/graphene-based nanocomposites prepared by a facile and low-cost approach. Sustainable Energy and Fuels, 2020, 4, 4625-4636.	2.5	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.	1.2	19
86	A new, high energy rechargeable lithium ion battery with a surface-treated Li1.2Mn0.54Ni0.13Co0.13O2 cathode and a nano-structured Li4Ti5O12 anode. Journal of Alloys and Compounds, 2015, 648, 7-12.	2.8	18
87	Synthesis of well-dispersed PtRuSnOx by ultrasonic-assisted chemical reduction and its property for methanol electrooxidation. Electrochimica Acta, 2009, 54, 4436-4440.	2.6	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.	2.5	17
89	Electrochemical performance and stability of LiMn0.6Fe0.4PO4/C composite. Journal of Alloys and Compounds, 2014, 587, 133-137.	2.8	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.	4.0	16

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91	A hierarchical porous MnO2-based electrode for electrochemical capacitor. Journal of Solid State Electrochemistry, 2011, 15, 485-491.	1.2	15
92	Uniform Deposition and Effective Confinement of Lithium in Three-Dimensional Interconnected Microchannels for Stable Lithium Metal Anodes. ACS Applied Materials & Interfaces, 2021, 13, 39311-39321.	4.0	15
93	A new type of cyclic silicone additive for improving the energy density and power density of Liâ€“O₂ batteries. Journal of Materials Chemistry A, 2018, 6, 7221-7226.	5.2	14
94	Artificial solid-electrolyte interface facilitating uniform Zn deposition by promoting chemical adsorption. Science China Materials, 2022, 65, 663-674.	3.5	14
95	Double-Protected Layers with Solidâ€“Liquid Hybrid Electrolytes for Long-Cycle-Life Lithium Batteries. ACS Applied Materials & Interfaces, 2022, 14, 4170-4178.	4.0	14
96	Rice husk-derived nano-SiO₂assembled on reduced graphene oxide distributed on conductive flexible polyaniline frameworks towards high-performance lithium-ion batteries. RSC Advances, 2022, 12, 14621-14630.	1.7	14
97	Nitrogen-Doped Carbon-Coating Disproportionated SiO Materials as Long Cycling Stable Anode for Lithium Ion Batteries. Molecules, 2021, 26, 1536.	1.7	13
98	Electro-oxidation of methanol on co-deposited Pt-MoO x prepared by cyclic voltammetry with different scanning potential ranges. Journal of Applied Electrochemistry, 2009, 39, 1053-1058.	1.5	12
99	Rational design of a hierarchical N-doped graphene-supported catalyst for highly energy-efficient lithiumâ€“oxygen batteries. Journal of Materials Chemistry A, 2019, 7, 19745-19752.	5.2	12
100	Well-defined carbon nanoframes containing bimetal-N-C active sites as efficient bi-functional electrocatalysts for Li-O2 batteries. Nano Research, 2019, 12, 517-523.	5.8	12
101	Application of In Situ Raman and Fourier Transform Infrared Spectroelectrochemical Methods on the Electrodeâ€Electrolyte Interface for Lithiumâ€Oxygen Batteries. Batteries and Supercaps, 2021, 4, 850-859.	2.4	12
102	Nano-TiO₂ coated single-crystal LiNi_{0.65}Co_{0.15}Mn_{0.2}O₂ for lithium-ion batteries with a stable structure and excellent cycling performance at a high cut-off voltage. Journal of Materials Chemistry A, 2022, 10, 5631-5641.	5.2	12
103	Electrodeposited Pdâ€“MoOx catalysts with enhanced catalytic activity for formic acid electrooxidation. Electrochimica Acta, 2012, 76, 292-299.	2.6	11
104	Facile synthesis of trimetallic Cu₁Au_{0.15}Pd_{1.5}/C catalyst for ethanol oxidation with superior activity and stability. Journal of Materials Chemistry A, 2014, 2, 16378-16380.	5.2	11
105	Effect of fluoroethylene carbonate as an electrolyte solvent in the LiNi0.5Mn1.5O4/Li4Ti5O12 cell. Journal of Alloys and Compounds, 2020, 812, 152064.	2.8	11
106	Comparative Studies of Polycrystal and Single-Crystal LiNi_{0.6}Co_{0.2}Mn_{0.2}O₂ in Terms of Physical and Electrochemical Performance. ACS Sustainable Chemistry and Engineering, 2021, 9, 11748-11757.	3.2	11
107	In Situ Room-Temperature Cross-Linked Highly Branched Biopolymeric Binder Based on the Dielsâ€“Alder Reaction for High-Performance Silicon Anodes in Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 56095-56108.	4.0	11
108	High power lithium-ion battery based on a LiMn2O4 nanorod cathode and a carbon-coated Li4Ti5O12 nanowire anode. RSC Advances, 2016, 6, 107355-107363.	1.7	10

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109	Mesoporous Coâ€“CoO@NC Microâ€Disk Derived from ZIFâ€9 as Bifunctional Catalyst for Lithiumâ€Oxygen Batteries. ChemistrySelect, 2018, 3, 9276-9283.	0.7	10
110	Ruthenium Oxide Modified alphaâ€Manganese Dioxide Nanotube as Efficient Bifunctional Cathode Catalysts for Lithium Oxygen Batteries. ChemistrySelect, 2019, 4, 7455-7462.	0.7	10
111	Porous calciumâ€“manganese oxide/carbon nanotube microspheres as efficient oxygen reduction catalysts for rechargeable zincâ€“air batteries. Inorganic Chemistry Frontiers, 2021, 8, 2052-2060.	3.0	10
112	Ruthenium oxide modified hierarchically porous boron-doped graphene aerogels as oxygen electrodes for lithiumâ€“oxygen batteries. RSC Advances, 2018, 8, 39829-39836.	1.7	9
113	Enhancing the air stability of LiNi0.6Co0.2Mn0.2O2 cathode through WO3/Li2WO4 surface modification. Journal of Power Sources, 2021, 514, 230605.	4.0	9
114	Comparative performance of LiFePO4 and LiNi0.6Co0.2Mn0.2O2 cathode materials for lithium batteries with solidâ€“liquid hybrid electrolytes. Journal of Power Sources, 2021, 515, 230639.	4.0	9
115	Fast-Charging Anode Materials and Novel Nanocomposite Design of Rice Husk-Derived SiO₂ and Sn Nanoparticles Self-Assembled on TiO₂(B) Nanorods for Lithium-Ion Storage Applications. ACS Omega, 2022, 7, 1357-1367.	1.6	9
116	Synergistic effect of amorphous carbon coverage and enlarged voltage window on the superior lithium storage performance of nanostructured mesoporous anatase TiO2: Emphasis on interfacial storage phenomena. Journal of Alloys and Compounds, 2014, 606, 61-67.	2.8	8
117	Polyaniline-coated partially unzipped vapor-grown carbon fibers/sulfur microsphere composites for Liâ€“S cathodes. Journal of Electroanalytical Chemistry, 2016, 761, 62-67.	1.9	8
118	LiFePO₄-coated LiNi_{0.6}Co_{0.2}Mn_{0.2}O₂ for lithium-ion batteries with enhanced cycling performance at elevated temperatures and high voltages. RSC Advances, 2020, 10, 37916-37922.	1.7	8
119	Enhancement in lithium storage performances of SiO2/graphene-basedÂnanocomposites prepared by low cost and facile approach. Journal of Materials Science: Materials in Electronics, 2022, 33, 6536-6548.	1.1	7
120	A low-temperature coating method with H3BO3 for enhanced electrochemical performance of Ni-rich LiNi0.82Co0.12Mn0.06O2 cathode. Electrochimica Acta, 2022, 422, 140564.	2.6	7
121	Surface-reinforced NCM811 with enhanced electrochemical performance for Li-ion batteries. Journal of Alloys and Compounds, 2022, 918, 165488.	2.8	7
122	Znâ€“Feâ€“O@C hollow microspheres as a high performance anode material for lithium-ion batteries. RSC Advances, 2017, 7, 5459-5465.	1.7	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. ACS Applied Materials & Interfaces, 2022, 14, 24620-24635.	4.0	6
124	Structure and Catalyst Effects on the Electrochemical Performance of Air Electrodes in Lithiumâ€Oxygen Batteries. ChemElectroChem, 2018, 5, 2666-2671.	1.7	5
125	Ultradispersed titanium dioxide nanoparticles embedded in a three-dimensional graphene aerogel for high performance sulfur cathodes. RSC Advances, 2019, 9, 6568-6575.	1.7	5
126	Surface platinum-rich CuPt bimetallic nanoparticles supported by partially unzipped vapor grown carbon fibers and their electrocatalytic activities. RSC Advances, 2014, 4, 29429-29434.	1.7	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.	1.0	4
128	Transformation of SnS Nanocompisites to Sn and S Nanoparticles during Lithiation. Crystals, 2021, 11, 145.	1.0	3
129	PROPORTIONAL EFFECT IN SbSi/N-DOPED GRAPHENE NANOCOMPOSITE PREPARATION FOR HIGH-PERFORMANCE LITHIUM-ION BATTERIES. Surface Review and Letters, 2021, 28, .	0.5	2
130	A porous Coâ€“Ru@C shell as a bifunctional catalyst for lithiumâ€“oxygen batteries. RSC Advances, 2018, 8, 23973-23980.	1.7	1
131	Building well-defined hierarchical nanostructures for sulfur and silicon electrodes. Progress in Natural Science: Materials International, 2019, 29, 672-678.	1.8	1
132	Tetramethylpyrazine: an electrolyte additive for high capacity and energy efficiency lithiumâ€“oxygen batteries. RSC Advances, 2021, 11, 24320-24325.	1.7	1