Xi-Fei Li

List of Publications by Year
in descending order

324 papers	21,302 citations	8755 75 h-index	12946 131 g-index
330 all docs	330 docs citations	330 times ranked	18723 citing authors

#	Article	IF	Citations
1	Recent Developments and Understanding of Novel Mixed Transitionâ€Metal Oxides as Anodes in Lithium Ion Batteries. Advanced Energy Materials, 2016, 6, 1502175.	19.5	756
2	Recent Advances in Layered Ti₃C₂T_x MXene for Electrochemical Energy Storage. Small, 2018, 14, e1703419.	10.0	729
3	Significantly improving cycling performance of cathodes in lithium ion batteries: The effect of Al2O3 and LiAlO2 coatings on LiNi0.6Co0.2Mn0.2O2. Nano Energy, 2018, 44, 111-120.	16.0	536
4	Ultrathin MoS₂/Nitrogenâ€Doped Graphene Nanosheets with Highly Reversible Lithium Storage. Advanced Energy Materials, 2013, 3, 839-844.	19.5	440
5	Interlayer Material Selection for Lithium-Sulfur Batteries. Joule, 2019, 3, 361-386.	24.0	406
6	Tin Oxide with Controlled Morphology and Crystallinity by Atomic Layer Deposition onto Graphene Nanosheets for Enhanced Lithium Storage. Advanced Functional Materials, 2012, 22, 1647-1654.	14.9	384
7	Atomic layer deposition of solid-state electrolyte coated cathode materials with superior high-voltage cycling behavior for lithium ion battery application. Energy and Environmental Science, 2014, 7, 768-778.	30.8	363
8	Significant impact of 2D graphene nanosheets on large volume change tin-based anodes in lithium-ion batteries: A review. Journal of Power Sources, 2015, 274, 869-884.	7.8	343
9	Layer by layer assembly of sandwiched graphene/SnO2 nanorod/carbon nanostructures with ultrahigh lithium ion storage properties. Energy and Environmental Science, 2013, 6, 2900.	30.8	335
10	Superior cycle stability of nitrogen-doped graphene nanosheets as anodes for lithium ion batteries. Electrochemistry Communications, 2011, 13, 822-825.	4.7	315
11	Recent advancements of polyaniline-based nanocomposites for supercapacitors. Journal of Power Sources, 2019, 424, 108-130.	7.8	305
12	Superior energy capacity of graphene nanosheets for a nonaqueous lithium-oxygen battery. Chemical Communications, 2011, 47, 9438.	4.1	293
13	Review and prospect of NiCo2O4-based composite materials for supercapacitor electrodes. Journal of Energy Chemistry, 2019, 31, 54-78.	12.9	275
14	Controllable Cathodeâ€“Electrolyte Interface of Li[Ni_{0.8}Co_{0.1}Mn_{0.1}]O₂ for Lithium Ion Batteries: A Review. Advanced Energy Materials, 2019, 9, 1901597.	19.5	273
15	Nitrogen-doped carbon nanotubes as cathode for lithiumâ€“air batteries. Electrochemistry Communications, 2011, 13, 668-672.	4.7	261
16	Nitrogen-doped graphene nanosheets as cathode materials with excellent electrocatalytic activity for high capacity lithium-oxygen batteries. Electrochemistry Communications, 2012, 18, 12-15.	4.7	248
17	Three-Dimensional Ordered Macroporous Metalâ€“Organic Framework Single Crystal-Derived Nitrogen-Doped Hierarchical Porous Carbon for High-Performance Potassium-Ion Batteries. Nano Letters, 2019, 19, 4965-4973.	9.1	246
18	Capacitive mechanism of oxygen functional groups on carbon surface in supercapacitors. Electrochimica Acta, 2018, 282, 618-625.	5.2	224

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19	Threeâ€Dimensional Porous Coreâ€Shell Sn@Carbon Composite Anodes for Highâ€Performance Lithiumâ€Ion Battery Applications. Advanced Energy Materials, 2012, 2, 238-244.	19.5	223
20	Significant impact on cathode performance of lithium-ion batteries by precisely controlled metal oxide nanocoatings via atomic layer deposition. Journal of Power Sources, 2014, 247, 57-69.	7.8	212
21	Recent advances in Li1+xAlxTi2âˆ’x(PO4)3 solid-state electrolyte for safe lithium batteries. Energy Storage Materials, 2019, 19, 379-400.	18.0	210
22	3D porous LiFePO4/graphene hybrid cathodes with enhanced performance for Li-ion batteries. Journal of Power Sources, 2012, 208, 340-344.	7.8	201
23	LiFePO4â€“graphene as a superior cathode material for rechargeable lithium batteries: impact of stacked graphene and unfolded graphene. Energy and Environmental Science, 2013, 6, 1521.	30.8	199
24	Nitrogen/sulfur dual-doping of reduced graphene oxide harvesting hollow ZnSnS3 nano-microcubes with superior sodium storage. Nano Energy, 2019, 57, 414-423.	16.0	194
25	Recent advances in effective protection of sodium metal anode. Nano Energy, 2018, 53, 630-642.	16.0	191
26	Promising Dual-Doped Graphene Aerogel/SnS₂ Nanocrystal Building High Performance Sodium Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 2637-2648.	8.0	185
27	Morphology-dependent performance of nanostructured Ni3S2/Ni anode electrodes for high performance sodium ion batteries. Nano Energy, 2016, 26, 533-540.	16.0	182
28	Controlled SnO2Crystallinity Effectively Dominating Sodium Storage Performance. Advanced Energy Materials, 2016, 6, 1502057.	19.5	180
29	Enhanced electrochemical performance of porous NiOâ€“Ni nanocomposite anode for lithium ion batteries. Journal of Power Sources, 2011, 196, 9625-9630.	7.8	171
30	A review of niobium oxides based nanocomposites for lithium-ion batteries, sodium-ion batteries and supercapacitors. Nano Energy, 2021, 85, 105955.	16.0	171
31	Engineering nanostructured anodes via electrostatic spray deposition for high performance lithium ion battery application. Journal of Materials Chemistry A, 2013, 1, 165-182.	10.3	163
32	Advanced metal-organic frameworks (MOFs) and their derived electrode materials for supercapacitors. Journal of Power Sources, 2018, 402, 281-295.	7.8	160
33	Binder-free porous coreâ€“shell structured Ni/NiO configuration for application of high performance lithium ion batteries. Electrochemistry Communications, 2010, 12, 1222-1225.	4.7	159
34	High concentration nitrogen doped carbon nanotube anodes with superior Li+ storage performance for lithium rechargeable battery application. Journal of Power Sources, 2012, 197, 238-245.	7.8	158
35	Carbon nanomaterials and their composites for supercapacitors. , 2022, 4, 950-985.		157
36	On rechargeability and reaction kinetics of sodiumâ€“air batteries. Energy and Environmental Science, 2014, 7, 3747-3757.	30.8	150

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37	Building Fast Diffusion Channel by Constructing Metal Sulfide/Metal Selenide Heterostructures for High-Performance Sodium Ion Batteries Anode. Nano Letters, 2020, 20, 6199-6205.	9.1	149
38	Oxygen vacancies and grain boundaries potential barriers modulation facilitated formaldehyde gas sensing performances for In2O3 hierarchical architectures. Sensors and Actuators B: Chemical, 2018, 255, 159-165.	7.8	142
39	Controllable Heterojunctions with a Semicoherent Phase Boundary Boosting the Potassium Storage of CoSe₂/FeSe₂. Advanced Materials, 2021, 33, e2102471.	21.0	142
40	Suppression of Jahnâ€“Teller distortion of spinel LiMn2O4 cathode. Journal of Alloys and Compounds, 2009, 479, 310-313.	5.5	139
41	Defect-Rich Crystalline SnO₂ Immobilized on Graphene Nanosheets with Enhanced Cycle Performance for Li Ion Batteries. Journal of Physical Chemistry C, 2012, 116, 22149-22156.	3.1	138
42	Discharge product morphology and increased charge performance of lithiumâ€“oxygen batteries with graphene nanosheet electrodes: the effect of sulphur doping. Journal of Materials Chemistry, 2012, 22, 20170.	6.7	136
43	Hierarchically porous LiFePO4/nitrogen-doped carbon nanotubes composite as a cathode for lithium ion batteries. Journal of Materials Chemistry, 2012, 22, 7537.	6.7	135
44	Sulfur/Nitrogen Dual-doped Porous Graphene Aerogels Enhancing Anode Performance of Lithium Ion Batteries. Electrochimica Acta, 2016, 205, 188-197.	5.2	133
45	Crumpled reduced graphene oxide conformally encapsulated hollow V2O5 nano/microsphere achieving brilliant lithium storage performance. Nano Energy, 2016, 24, 32-44.	16.0	132
46	Bimetallic Platinumâ€“Rhodium Alloy Nanodendrites as Highly Active Electrocatalyst for the Ethanol Oxidation Reaction. ACS Applied Materials & Interfaces, 2018, 10, 19755-19763.	8.0	132
47	SnO₂/Reduced Graphene Oxide Interlayer Mitigating the Shuttle Effect of Liâ€“S Batteries. ACS Applied Materials & Interfaces, 2018, 10, 18665-18674.	8.0	129
48	Recent advances in the research of MLi2Ti6O14 (Mâ€¯=â€¯2Na, Sr, Ba, Pb) anode materials for Li-ion batteries. Journal of Power Sources, 2018, 399, 26-41.	7.8	125
49	Atomic Layer Deposition of Lithium Tantalate Solid-State Electrolytes. Journal of Physical Chemistry C, 2013, 117, 20260-20267.	3.1	123
50	Superior catalytic activity of nitrogen-doped graphene cathodes for high energy capacity sodiumâ€“air batteries. Chemical Communications, 2013, 49, 11731.	4.1	119
51	Free-standing grapheneâ€“carbon nanotube hybrid papers used as current collector and binder free anodes for lithium ion batteries. Journal of Power Sources, 2013, 237, 41-46.	7.8	118
52	A review of atomic layer deposition providing high performance lithium sulfur batteries. Journal of Power Sources, 2017, 338, 34-48.	7.8	115
53	A ZnO/ZnFe₂O₄ uniform coreâ€“shell heterojunction with a tubular structure modified by NiOOH for efficient photoelectrochemical water splitting. Dalton Transactions, 2018, 47, 12181-12187.	3.3	115
54	Hierarchical nanostructured coreâ€“shell Sn@C nanoparticles embedded in graphene nanosheets: spectroscopic view and their application in lithium ion batteries. Physical Chemistry Chemical Physics, 2013, 15, 3535.	2.8	113

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55	Structurally tailored graphene nanosheets as lithium ion battery anodes: an insight to yield exceptionally high lithium storage performance. Nanoscale, 2013, 5, 12607.	5.6	107
56	MOF derived ZnSeâ€“FeSe2/RGO Nanocomposites with enhanced sodium/potassium storage. Journal of Power Sources, 2020, 455, 227937.	7.8	107
57	A Highâ€Performance, Tailorable, Wearable, and Foldable Solidâ€State Supercapacitor Enabled by Arranging Pseudocapacitive Groups and MXene Flakes on Textile Electrode Surface. Advanced Functional Materials, 2021, 31, 2008185.	14.9	104
58	MOF-derived porous NiO nanoparticle architecture for high performance supercapacitors. Materials Letters, 2017, 188, 1-4.	2.6	102
59	Hybrid 0D/2D edamame shaped ZnIn2S4 photoanode modified by Co-Pi and Pt for charge management towards efficient photoelectrochemical water splitting. Applied Catalysis B: Environmental, 2019, 244, 188-196.	20.2	102
60	MOF-derived porous hollow Co₃O₄parallelepipeds for building high-performance Li-ion batteries. Journal of Materials Chemistry A, 2015, 3, 22542-22546.	10.3	101
61	Metalâ€“Organic Frameworks-Derived Co₂P@N-C@rGO with Dual Protection Layers for Improved Sodium Storage. ACS Applied Materials & Interfaces, 2018, 10, 14641-14648.	8.0	100
62	Ultrathin atomic layer deposited ZrO2 coating to enhance the electrochemical performance of Li4Ti5O12 as an anode material. Electrochimica Acta, 2013, 93, 195-201.	5.2	99
63	Superior Cathode Performance of Nitrogen-Doped Graphene Frameworks for Lithium Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 10643-10651.	8.0	98
64	Ultrathin Rh nanosheets as a highly efficient bifunctional electrocatalyst for isopropanol-assisted overall water splitting. Nanoscale, 2019, 11, 9319-9326.	5.6	97
65	Direct coherent multi-ink printing of fabric supercapacitors. Science Advances, 2021, 7, .	10.3	95
66	Graphene Nanoribbons Derived from the Unzipping of Carbon Nanotubes: Controlled Synthesis and Superior Lithium Storage Performance. Journal of Physical Chemistry C, 2014, 118, 881-890.	3.1	93
67	Novel approach toward a binder-free and current collector-free anode configuration: highly flexible nanoporous carbon nanotube electrodes with strong mechanical strength harvesting improved lithium storage. Journal of Materials Chemistry, 2012, 22, 18847.	6.7	91
68	Novel understanding of carbothermal reduction enhancing electronic and ionic conductivity of Li₄Ti₅O₁₂ anode. Journal of Materials Chemistry A, 2015, 3, 11773-11781.	10.3	88
69	Recent progress and prospects of Li-CO2 batteries: Mechanisms, catalysts and electrolytes. Energy Storage Materials, 2021, 34, 148-170.	18.0	88
70	Oxygen-containing Functional Groups Enhancing Electrochemical Performance of Porous Reduced Graphene Oxide Cathode in Lithium Ion Batteries. Electrochimica Acta, 2015, 174, 762-769.	5.2	86
71	High energy and power lithium-ion capacitors based on Mn3O4/3D-graphene as anode and activated polyaniline-derived carbon nanorods as cathode. Chemical Engineering Journal, 2019, 370, 1485-1492.	12.7	86
72	Design, synthesis, and application of metal sulfides for Liâ€“S batteries: progress and prospects. Journal of Materials Chemistry A, 2020, 8, 17848-17882.	10.3	85

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73	Selective Etching Induced Synthesis of Hollow Rh Nanospheres Electrocatalyst for Alcohol Oxidation Reactions. Small, 2018, 14, e1801239.	10.0	82
74	High-performance self-assembly MnCo2O4 nanosheets for asymmetric supercapacitors. Journal of Energy Chemistry, 2019, 37, 66-72.	12.9	80
75	Superior sodium storage of novel VO₂nano-microspheres encapsulated into crumpled reduced graphene oxide. Journal of Materials Chemistry A, 2017, 5, 4850-4860.	10.3	79
76	In situ self-catalyzed formation of coreâ€“shell LiFePO4@CNT nanowires for high rate performance lithium-ion batteries. Journal of Materials Chemistry A, 2013, 1, 7306.	10.3	78
77	Atomic layer deposited coatings to significantly stabilize anodes for Li ion batteries: effects of coating thickness and the size of anode particles. Journal of Materials Chemistry A, 2014, 2, 2306.	10.3	78
78	Surface engineering of LiNi0.8Mn0.1Co0.1O2 towards boosting lithium storage: Bimetallic oxides versus monometallic oxides. Nano Energy, 2020, 77, 105034.	16.0	78
79	Controllable oxygenic functional groups of metal-free cathodes for high performance lithium ion batteries. Journal of Materials Chemistry A, 2015, 3, 11376-11386.	10.3	77
80	Fish gill-derived activated carbon for supercapacitor application. Journal of Alloys and Compounds, 2017, 694, 636-642.	5.5	76
81	Tailoring interactions of carbon and sulfur in Liâ€“S battery cathodes: significant effects of carbonâ€“heteroatom bonds. Journal of Materials Chemistry A, 2014, 2, 12866.	10.3	75
82	Rational design of hybrid Co3O4/graphene films: Free-standing flexible electrodes for high performance supercapacitors. Electrochimica Acta, 2018, 259, 338-347.	5.2	75
83	3D frame-like architecture of N-C-incorporated mixed metal phosphide boosting ultrahigh energy density pouch-type supercapacitors. Nano Energy, 2022, 91, 106630.	16.0	74
84	Improved photoelectrochemical response of CuWO4/BiOI p-n heterojunction embedded with plasmonic Ag nanoparticles. Chemical Engineering Journal, 2019, 370, 218-227.	12.7	72
85	A hybrid energy storage mechanism of carbonous anodes harvesting superior rate capability and long cycle life for sodium/potassium storage. Journal of Materials Chemistry A, 2019, 7, 3673-3681.	10.3	70
86	Enhanced capacitance of boron-doped graphene aerogels for aqueous symmetric supercapacitors. Applied Surface Science, 2019, 475, 285-293.	6.1	70
87	Bifunctional Catalytic Effect of CoSe₂ for Lithiumâ€“Sulfur Batteries: Single Doping versus Dual Doping. Advanced Functional Materials, 2022, 32, 2107838.	14.9	70
88	Tin-alloy heterostructures encapsulated in amorphous carbon nanotubes as hybrid anodes in rechargeable lithium ion batteries. Electrochimica Acta, 2013, 89, 387-393.	5.2	69
89	Polyethylenimine-modified nickel phosphide nanosheets: interfacial protons boost the hydrogen evolution reaction. Journal of Materials Chemistry A, 2019, 7, 13770-13776.	10.3	69
90	Flexible Sub-Micro Carbon Fiber@CNTs as Anodes for Potassium-Ion Batteries. ACS Applied Materials & Interfaces, 2019, 11, 5015-5021.	8.0	69

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91	Constructing Sb O C bond to improve the alloying reaction reversibility of free-standing Sb2Se3 nanorods for potassium-ion batteries. Nano Energy, 2022, 93, 106764.	16.0	68
92	Rationally-designed configuration of directly-coated Ni3S2/Ni electrode by RGO providing superior sodium storage. Carbon, 2018, 133, 14-22.	10.3	67
93	Controlled design of metal oxide-based (Mn2+/Nb5+) anodes for superior sodium-ion hybrid supercapacitors: Synergistic mechanisms of hybrid ion storage. Nano Energy, 2020, 71, 104594.	16.0	67
94	Dopingâ€Induced Electronic/Ionic Engineering to Optimize the Redox Kinetics for Potassium Storage: A Case Study of Niâ€Doped CoSe₂. Advanced Science, 2022, 9, e2200341.	11.2	67
95	Size-dependent surface phase change of lithium iron phosphate during carbon coating. Nature Communications, 2014, 5, 3415.	12.8	66
96	A review of mechanics-related material damages in all-solid-state batteries: Mechanisms, performance impacts and mitigation strategies. Nano Energy, 2020, 70, 104545.	16.0	65
97	Rational design of Sn/SnO 2 /porous carbon nanocomposites as anode materials for sodium-ion batteries. Applied Surface Science, 2017, 412, 170-176.	6.1	63
98	Target construction of ultrathin graphitic carbon encapsulated FeS hierarchical microspheres featuring superior low-temperature lithium/sodium storage properties. Journal of Materials Chemistry A, 2018, 6, 7997-8005.	10.3	62
99	Chemical Heterointerface Engineering on Hybrid Electrode Materials for Electrochemical Energy Storage. Small Methods, 2021, 5, e2100444.	8.6	62
100	Atomic layer deposition derived amorphous TiO2 thin film decorating graphene nanosheets with superior rate capability. Electrochemistry Communications, 2015, 57, 43-47.	4.7	61
101	An optimized Al₂O₃ layer for enhancing the anode performance of NiCo₂O₄ nanosheets for sodium-ion batteries. Journal of Materials Chemistry A, 2017, 5, 17881-17888.	10.3	61
102	Amorphous SnO2/graphene aerogel nanocomposites harvesting superior anode performance for lithium energy storage. Applied Energy, 2016, 175, 529-535.	10.1	60
103	Synthesis, Functional Modifications, and Diversified Applications of Molybdenum Oxides Micro-/Nanocrystals: A Review. Crystal Growth and Design, 2018, 18, 6326-6369.	3.0	60
104	Microwave-assisted hydrothermal synthesis of nanostructured spinel Li4Ti5O12 as anode materials for lithium ion batteries. Electrochimica Acta, 2012, 63, 100-104.	5.2	59
105	Exposing the photocorrosion mechanism and control strategies of a CuO photocathode. Inorganic Chemistry Frontiers, 2019, 6, 2488-2499.	6.0	59
106	Controllable atomic layer deposition of one-dimensional nanotubular TiO2. Applied Surface Science, 2013, 266, 132-140.	6.1	58
107	Carbon black cathodes for lithium oxygen batteries: Influence of porosity and heteroatom-doping. Carbon, 2013, 64, 170-177.	10.3	58
108	Functional Passivation Interface of LiNi_{0.8}Co_{0.1}Mn_{0.1}O₂ toward Superior Lithium Storage. Advanced Functional Materials, 2021, 31, 2008301.	14.9	58

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109	Sodium doping derived electromagnetic center of lithium layered oxide cathode materials with enhanced lithium storage. Nano Energy, 2022, 94, 106900.	16.0	57
110	Influence of paper thickness on the electrochemical performances of graphene papers as an anode for lithium ion batteries. Electrochimica Acta, 2013, 91, 227-233.	5.2	56
111	Reduced graphene oxide decorated porous SnO2 nanotubes with enhanced sodium storage. Journal of Alloys and Compounds, 2017, 710, 323-330.	5.5	56
112	An elaborate insight of lithiation behavior of V2O5 anode. Nano Energy, 2020, 78, 105233.	16.0	56
113	Atomic layer deposited Li4Ti5O12 on nitrogen-doped carbon nanotubes. RSC Advances, 2013, 3, 7285.	3.6	54
114	Constructing high-rate and long-life phosphorus/carbon anodes for potassium-ion batteries through rational nanoconfinement. Nano Energy, 2021, 83, 105772.	16.0	54
115	Electrochemical Impedance Spectroscopy Illuminating Performance Evolution of Porous Coreâ€“Shell Structured Nickel/Nickel Oxide Anode Materials. Electrochimica Acta, 2015, 164, 55-61.	5.2	52
116	Tailored lithium storage performance of graphene aerogel anodes with controlled surface defects for lithium-ion batteries. Applied Surface Science, 2016, 364, 651-659.	6.1	52
117	Effective surface disorder engineering of metal oxide nanocrystals for improved photocatalysis. Applied Catalysis B: Environmental, 2017, 203, 615-624.	20.2	51
118	A nanoarchitectured Na₆Fe₅(SO₄)₈/CNTs cathode for building a low-cost 3.6ÂV sodium-ion full battery with superior sodium storage. Journal of Materials Chemistry A, 2019, 7, 14656-14669.	10.3	51
119	Heterogeneous interface of Se@Sb@C boosting potassium storage. Nano Energy, 2020, 78, 105345.	16.0	51
120	Electrospun SnO2â€“ZnO nanofibers with improved electrochemical performance as anode materials for lithium-ion batteries. International Journal of Hydrogen Energy, 2015, 40, 14338-14344.	7.1	50
121	Heterogeneous structured MoSe₂â€“MoO₃ quantum dots with enhanced sodium/potassium storage. Journal of Materials Chemistry A, 2020, 8, 23395-23403.	10.3	48
122	Interaction of Carbon Coating on LiFePO₄: A Local Visualization Study of the Influence of Impurity Phases. Advanced Functional Materials, 2013, 23, 806-814.	14.9	47
123	1D WO 3 Nanorods/2D WO 3â^' x Nanoflakes Homojunction Structure for Enhanced Charge Separation and Transfer towards Efficient Photoelectrochemical Performance. ChemSusChem, 2019, 12, 5282-5290.	6.8	47
124	Biomass-derived nanostructured porous carbons for sodium ion batteries: a review. Materials Technology, 2019, 34, 232-245.	3.0	47
125	Fabrication of MoS₂-Graphene Nanocomposites by Layer-by-Layer Manipulation for High-Performance Lithium Ion Battery Anodes. ECS Journal of Solid State Science and Technology, 2013, 2, M3034-M3039.	1.8	46
126	Ion association tailoring SEI composition for Li metal anode protection. Journal of Energy Chemistry, 2020, 45, 1-6.	12.9	46

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127	Engineering 2D Materials: A Viable Pathway for Improved Electrochemical Energy Storage. Advanced Energy Materials, 2020, 10, 2002621.	19.5	45
128	Printable Ink Design towards Customizable Miniaturized Energy Storage Devices. , 2020, 2, 1041-1056.		45
129	Hydrothermal synthesis of mixed crystal phases TiO2â€“reduced graphene oxide nanocomposites with small particle size for lithium ion batteries. International Journal of Hydrogen Energy, 2014, 39, 16116-16122.	7.1	44
130	Controllably Designed â€œVice-Electrodeâ€•Interlayers Harvesting High Performance Lithium Sulfur Batteries. ACS Applied Materials & Interfaces, 2017, 9, 40273-40280.	8.0	44
131	A novel ZnO-based inorganic/organic bilayer with low resistance for Li metal protection. Energy Storage Materials, 2018, 14, 392-401.	18.0	44
132	One-dimensional porous Co3O4 rectangular rods for enhanced acetone gas sensing properties. Sensors and Actuators B: Chemical, 2019, 297, 126746.	7.8	44
133	Significantly increased cycling performance of novel â€œself-matrixâ€•NiSnO3 anode in lithium ion battery application. RSC Advances, 2012, 2, 6150.	3.6	43
134	Controllable synthesis of hierarchical SnO2 microspheres for dye-sensitized solar cells. Journal of Power Sources, 2015, 280, 476-482.	7.8	43
135	Grapheneâ€Encapsulated Co₉S₈ Nanoparticles on N,Sâ€Codoped Carbon Nanotubes: An Efficient Bifunctional Oxygen Electrocatalyst. ChemSusChem, 2019, 12, 3390-3400.	6.8	43
136	Promising Three-Dimensional Flowerlike CuWO₄ Photoanode Modified with CdS and FeOOH for Efficient Photoelectrochemical Water Splitting. Industrial & Engineering Chemistry Research, 2018, 57, 6210-6217.	3.7	42
137	SnO2 particles anchored on N-doped graphene surface as sodium-ion battery anode with enhanced electrochemical capability. Applied Surface Science, 2017, 396, 269-277.	6.1	41
138	Controllable S-Vacancies of monolayered Moâ€“S nanocrystals for highly harvesting lithium storage. Nano Energy, 2020, 78, 105235.	16.0	41
139	Nitrogen/sulphur dual-doped hierarchical carbonaceous fibers boosting potassium-ion storage. Journal of Energy Chemistry, 2021, 55, 420-427.	12.9	41
140	Tin Oxide/Graphene Aerogel Nanocomposites Building Superior Rate Capability for Lithium Ion Batteries. Electrochimica Acta, 2015, 176, 610-619.	5.2	40
141	Fabrication and Characterization of SnO2/Graphene Composites as High Capacity Anodes for Li-Ion Batteries. Nanomaterials, 2013, 3, 606-614.	4.1	39
142	Superior lithium storage performance of hierarchical porous vanadium pentoxide nanofibers for lithium ion battery cathodes. Journal of Alloys and Compounds, 2015, 634, 50-57.	5.5	39
143	Double boosting single atom Feâ€“N4 sites for high efficiency O2 and CO2 electroreduction. Carbon, 2021, 182, 109-116.	10.3	39
144	Confining ZnS/SnS₂ Ultrathin Heterostructured Nanosheets in Hollow Nâ€Doped Carbon Nanocubes as Novel Sulfur Host for Advanced Liâ€S Batteries. Small, 2022, 18, e2107727.	10.0	39

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145	A novel coating onto LiMn2O4 cathode with increased lithium ion battery performance. Applied Surface Science, 2014, 317, 884-891.	6.1	38
146	Optimized activation of Li2MnO3 effectively boosting rate capability of xLi2MnO3â^™(1-x)LiMO2 cathode. Nano Energy, 2021, 88, 106240.	16.0	38
147	Observation of Surface/Defect States of SnO₂ Nanowires on Different Substrates from X-ray Excited Optical Luminescence. Crystal Growth and Design, 2012, 12, 397-402.	3.0	37
148	Scalable synthesis of functionalized graphene as cathodes in Li-ion electrochemical energy storage devices. Applied Energy, 2016, 175, 512-521.	10.1	37
149	Vertically Aligned Co₉S₈ Nanotube Arrays onto Graphene Papers as Highâ€Performance Flexible Electrodes for Supercapacitors. Chemistry - A European Journal, 2018, 24, 2339-2343.	3.3	37
150	A Mixed Microporous/Low-range Mesoporous Composite with High Sulfur Loading from Hierarchically-structured Carbon for Lithium Sulfur Batteries. Electrochimica Acta, 2017, 230, 181-188.	5.2	36
151	Superior Sodium Storage of Vanadium Pentoxide Cathode with Controllable Interlamellar Spacing. Electrochimica Acta, 2017, 244, 77-85.	5.2	36
152	Hierarchically stacked reduced graphene oxide/carbon nanotubes for as high performance anode for sodium-ion batteries. Electrochimica Acta, 2019, 302, 65-70.	5.2	36
153	Novel method to enhance the cycling performance of spinel LiMn2O4. Electrochemistry Communications, 2007, 9, 2023-2026.	4.7	35
154	Superior Sodium Storage of Carbon-Coated NaV₆O₁₅ Nanotube Cathode: Pseudocapacitance Versus Intercalation. ACS Applied Materials & Interfaces, 2019, 11, 10631-10641.	8.0	35
155	Rich Surface Oxygen Vacancies of MnO₂ for Enhancing Electrocatalytic Oxygen Reduction and Oxygen Evolution Reactions. Advanced Energy and Sustainability Research, 2021, 2, 2100030.	5.8	35
156	Facile synthesis and excellent formaldehyde gas sensing properties of novel spindle-like In2O3 porous polyhedra. Sensors and Actuators B: Chemical, 2016, 237, 944-952.	7.8	34
157	Spinel LiMn2O4 active material with high capacity retention. Applied Surface Science, 2007, 253, 8592-8596.	6.1	33
158	Nanoporous tree-like SiO2 films fabricated by solâ€“gel assisted electrostatic spray deposition. Microporous and Mesoporous Materials, 2012, 151, 488-494.	4.4	33
159	Nanostructued coreâ€“shell Sn nanowires @ CNTs with controllable thickness of CNT shells for lithium ion battery. Applied Surface Science, 2015, 332, 192-197.	6.1	33
160	Recent advances of polar transition-metal sulfides host materials for advanced lithiumâ€“sulfur batteries. Functional Materials Letters, 2018, 11, 1840010.	1.2	33
161	Building sandwich-like carbon coated Si@CNTs composites as high-performance anode materials for lithium-ion batteries. Electrochimica Acta, 2020, 364, 137278.	5.2	33
162	Controllable lithium storage performance of tin oxide anodes with various particle sizes. International Journal of Hydrogen Energy, 2015, 40, 14314-14321.	7.1	32

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