

Madhavi Srinivasan

List of Publications by Year in descending order

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Constructing Hierarchical Spheres from Large Ultrathin Anatase TiO ₂ Nanosheets with Nearly 100% Exposed (001) Facets for Fast Reversible Lithium Storage. <i>Journal of the American Chemical Society</i> , 2010, 132, 6124-6130.	6.6	1,215
2	Formation of Fe ₂ O ₃ Microboxes with Hierarchical Shell Structures from Metal-Organic Frameworks and Their Lithium Storage Properties. <i>Journal of the American Chemical Society</i> , 2012, 134, 17388-17391.	6.6	935
3	Assembling carbon-coated Fe ₂ O ₃ hollow nanohorns on the CNT backbone for superior lithium storage capability. <i>Energy and Environmental Science</i> , 2012, 5, 5252-5256.	15.6	767
4	Insertion-Type Electrodes for Nonaqueous Li-Ion Capacitors. <i>Chemical Reviews</i> , 2014, 114, 11619-11635.	23.0	632
5	Controlled Growth of NiMoO ₄ Nanosheet and Nanorod Arrays on Various Conductive Substrates as Advanced Electrodes for Asymmetric Supercapacitors. <i>Advanced Energy Materials</i> , 2015, 5, 1401172.	10.2	559
6	A Review on Design Strategies for Carbon Based Metal Oxides and Sulfides Nanocomposites for High Performance Li and Na Ion Battery Anodes. <i>Advanced Energy Materials</i> , 2017, 7, 1601424.	10.2	486
7	Achieving high specific charge capacitances in Fe ₃ O ₄ /reduced graphene oxide nanocomposites. <i>Journal of Materials Chemistry</i> , 2011, 21, 3422.	6.7	430
8	Research Progress on Negative Electrodes for Practical Li-Ion Batteries: Beyond Carbonaceous Anodes. <i>Advanced Energy Materials</i> , 2015, 5, 1402225.	10.2	415
9	Recent developments in electrode materials for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 9353-9378.	5.2	413
10	MS ₂ (M = Co and Ni) Hollow Spheres with Tunable Interiors for High-Performance Supercapacitors and Photovoltaics. <i>Advanced Functional Materials</i> , 2014, 24, 2155-2162.	7.8	398
11	In situ growth of NiCo ₂ S ₄ nanosheets on graphene for high-performance supercapacitors. <i>Chemical Communications</i> , 2013, 49, 10178.	2.2	384
12	LiMnPO ₄ – A next generation cathode material for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 3518.	5.2	383
13	Recent Advancements in All-Vanadium Redox Flow Batteries. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500309.	1.9	351
14	Fabrication of Spinel One-Dimensional Architectures by Single-Spinneret Electrospinning for Energy Storage Applications. <i>ACS Nano</i> , 2015, 9, 1945-1954.	7.3	349
15	3D micro-porous conducting carbon beehive by single step polymer carbonization for high performance supercapacitors: the magic of in situ porogen formation. <i>Energy and Environmental Science</i> , 2014, 7, 728-735.	15.6	348
16	Lithium-Ion Conducting Electrolyte Salts for Lithium Batteries. <i>Chemistry - A European Journal</i> , 2011, 17, 14326-14346.	1.7	341
17	A High-Energy Lithium-Ion Capacitor by Integration of a 3D Interconnected Titanium Carbide Nanoparticle Chain Anode with a Pyridine-Derived Porous Nitrogen-Doped Carbon Cathode. <i>Advanced Functional Materials</i> , 2016, 26, 3082-3093.	7.8	330
18	Multi-functional electrospun nanofibres for advances in tissue regeneration, energy conversion & storage, and water treatment. <i>Chemical Society Reviews</i> , 2016, 45, 1225-1241.	18.7	325

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19	Graphene-supported anatase TiO ₂ nanosheets for fast lithium storage. <i>Chemical Communications</i> , 2011, 47, 5780.	2.2	305
20	Green Synthesis of NiO Nanobelts with Exceptional Pseudo-Capacitive Properties. <i>Advanced Energy Materials</i> , 2012, 2, 1188-1192.	10.2	297
21	Synthesis and electrochemical properties of electrospun V ₂ O ₅ nanofibers as supercapacitor electrodes. <i>Journal of Materials Chemistry</i> , 2010, 20, 6720.	6.7	285
22	Fe ₃ O ₄ -Fe ₂ O ₃ nanotubes with superior lithium storage capability. <i>Chemical Communications</i> , 2011, 47, 8061.	2.2	265
23	Two-Dimensional Tin Disulfide Nanosheets for Enhanced Sodium Storage. <i>ACS Nano</i> , 2015, 9, 11371-11381.	7.3	257
24	Cobalt Sulfide Nanosheet/Graphene/Carbon Nanotube Nanocomposites as Flexible Electrodes for Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 12594-12599.	7.2	252
25	Electrospun carbon nanofibers and their hybrid composites as advanced materials for energy conversion and storage. <i>Nano Energy</i> , 2016, 22, 361-395.	8.2	248
26	The facile synthesis of hierarchical porous flower-like NiCo ₂ O ₄ with superior lithium storage properties. <i>Journal of Materials Chemistry A</i> , 2013, 1, 10935.	5.2	247
27	Ultralong Fe ₃ O ₄ Nanobelts: Synthesis and Effect of Binder Choice on Their Lithium Storage Properties. <i>Journal of Physical Chemistry C</i> , 2012, 116, 12508-12513.	1.5	246
28	Synthesis of CuO nanostructures from Cu-based metal organic framework (MOF-199) for application as anode for Li-ion batteries. <i>Nano Energy</i> , 2013, 2, 1158-1163.	8.2	244
29	Electrospun Porous NiCo ₂ O ₄ Nanotubes as Advanced Electrodes for Electrochemical Capacitors. <i>Chemistry - A European Journal</i> , 2013, 19, 5892-5898.	1.7	244
30	One-Pot Synthesis of Tunable Crystalline Ni ₃ S ₄ @Amorphous MoS ₂ Core/Shell Nanospheres for High-Performance Supercapacitors. <i>Small</i> , 2015, 11, 3694-3702.	5.2	243
31	Engineering Nonspherical Hollow Structures with Complex Interiors by Template-Engaged Redox Etching. <i>Journal of the American Chemical Society</i> , 2010, 132, 16271-16277.	6.6	241
32	Carbon coated nano-LiTi ₂ (PO ₄) ₃ electrodes for non-aqueous hybrid supercapacitors. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 5808.	1.3	236
33	1D hollow Fe ₃ O ₄ electrospun nanofibers as high performance anode material for lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2012, 22, 23049.	6.7	227
34	SnO ₂ Nanoparticles with Controlled Carbon Nanocoating as High-Capacity Anode Materials for Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2009, 113, 20504-20508.	1.5	222
35	Activated carbons derived from coconut shells as high energy density cathode material for Li-ion capacitors. <i>Scientific Reports</i> , 2013, 3, 3002.	1.6	222
36	Preparation of nitrogen- and phosphorous co-doped carbon microspheres and their superior performance as anode in sodium-ion batteries. <i>Carbon</i> , 2016, 99, 556-563.	5.4	218

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37	Electrospun hollow nanofibers for advanced secondary batteries. <i>Nano Energy</i> , 2017, 39, 111-139.	8.2	214
38	Nanoweb anodes composed of one-dimensional, high aspect ratio, size tunable electrospun ZnFe ₂ O ₄ nanofibers for lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2011, 21, 14999.	6.7	210
39	High-performance flexible quasi-solid-state zinc-ion batteries with layer-expanded vanadium oxide cathode and zinc/stainless steel mesh composite anode. <i>Nano Energy</i> , 2019, 62, 94-102.	8.2	209
40	Anion Texturing Towards Dendrite-free Zn Anode for Aqueous Rechargeable Batteries. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 7213-7219.	7.2	209
41	Fast Synthesis of Li-MoO_3 Nanorods with Controlled Aspect Ratios and Their Enhanced Lithium Storage Capabilities. <i>Journal of Physical Chemistry C</i> , 2010, 114, 8675-8678.	1.5	208
42	Hybrid supercapacitor with nano-TiP ₂ O ₇ as intercalation electrode. <i>Journal of Power Sources</i> , 2011, 196, 8850-8854.	4.0	204
43	High Aspect Ratio Electrospun CuO Nanofibers as Anode Material for Lithium-Ion Batteries with Superior Cycleability. <i>Journal of Physical Chemistry C</i> , 2012, 116, 18087-18092.	1.5	202
44	A Flexible Quasi-Solid-State Asymmetric Electrochemical Capacitor Based on Hierarchical Porous V ₂ O ₅ Nanosheets on Carbon Nanofibers. <i>Advanced Energy Materials</i> , 2015, 5, 1500753.	10.2	198
45	Cobalt Oxide Nanowall Arrays on Reduced Graphene Oxide Sheets with Controlled Phase, Grain Size, and Porosity for Li-Ion Battery Electrodes. <i>Journal of Physical Chemistry C</i> , 2011, 115, 8400-8406.	1.5	196
46	Printable photo-supercapacitor using single-walled carbon nanotubes. <i>Energy and Environmental Science</i> , 2011, 4, 413-416.	15.6	188
47	Architecting a Stable High-Energy Aqueous Al-Ion Battery. <i>Journal of the American Chemical Society</i> , 2020, 142, 15295-15304.	6.6	188
48	One-pot synthesis of uniform carbon-coated MoO ₂ nanospheres for high-rate reversible lithium storage. <i>Chemical Communications</i> , 2010, 46, 6906.	2.2	185
49	Controllable Preparation of Square Nickel Chalcogenide (NiS and NiSe ₂) Nanoplates for Superior Li/Na Ion Storage Properties. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 25261-25267.	4.0	185
50	TiO ₂ hollow spheres with large amount of exposed (001) facets for fast reversible lithium storage. <i>Journal of Materials Chemistry</i> , 2011, 21, 1677-1680.	6.7	182
51	Electrospun TiO ₂ -Graphene Composite Nanofibers as a Highly Durable Insertion Anode for Lithium Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2012, 116, 14780-14788.	1.5	181
52	Few-layered Ni(OH) ₂ nanosheets for high-performance supercapacitors. <i>Journal of Power Sources</i> , 2015, 295, 323-328.	4.0	180
53	Electrospun NiO nanofibers as high performance anode material for Li-ion batteries. <i>Journal of Power Sources</i> , 2013, 227, 284-290.	4.0	178
54	Modulation of Single Atomic Co and Fe Sites on Hollow Carbon Nanospheres as Oxygen Electrodes for Rechargeable Zn-Air Batteries. <i>Small Methods</i> , 2021, 5, e2000751.	4.6	178

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55	Metal oxyfluorides TiOF ₂ and NbO ₂ F as anodes for Li-ion batteries. Journal of Power Sources, 2006, 162, 1312-1321.	4.0	177
56	CuO nanostructures supported on Cu substrate as integrated electrodes for highly reversible lithium storage. Nanoscale, 2011, 3, 1618.	2.8	174
57	Undesired Reactions in Aqueous Rechargeable Zinc Ion Batteries. ACS Energy Letters, 2021, 6, 1773-1785.	8.8	173
58	High power lithium-ion hybrid electrochemical capacitors using spinel LiCrTiO ₄ as insertion electrode. Journal of Materials Chemistry, 2012, 22, 16026.	6.7	167
59	TiO ₂ /AC Composites for Synergistic Adsorption-Photocatalysis Processes: Present Challenges and Further Developments for Water Treatment and Reclamation. Critical Reviews in Environmental Science and Technology, 2011, 41, 1173-1230.	6.6	164
60	Large-scale synthesis of highly uniform Fe _{1-x} S nanostructures as a high-rate anode for sodium ion batteries. Nano Energy, 2017, 37, 81-89.	8.2	161
61	Apatite - An Adaptive Framework Structure. Reviews in Mineralogy and Geochemistry, 2005, 57, 307-401.	2.2	159
62	MOF-derived crumpled-sheet-assembled perforated carbon cuboids as highly effective cathode active materials for ultra-high energy density Li-ion hybrid electrochemical capacitors (Li-HECs). Nanoscale, 2014, 6, 4387.	2.8	159
63	Carbon Nanotube-Encapsulated Noble Metal Nanoparticle Hybrid as a Cathode Material for Li-Oxygen Batteries. Advanced Functional Materials, 2014, 24, 6516-6523.	7.8	157
64	Constructing high energy density non-aqueous Li-ion capacitors using monoclinic TiO ₂ -B nanorods as insertion host. Journal of Materials Chemistry A, 2013, 1, 6145.	5.2	154
65	P ₂ Na _x Co _y Mn _{1-y} O ₂ (y = 0, 1) Cycling Stability. Chemistry of Materials, 2016, 28, 2041-2051.	3.2	154
66	Morphology, structure and electrochemical properties of single phase electrospun vanadium pentoxide nanofibers for lithium ion batteries. Journal of Power Sources, 2011, 196, 6465-6472.	4.0	152
67	Amorphous Fe-Ni-B-O Nanocages as Efficient Electrocatalysts for Oxygen Evolution Reaction. ACS Nano, 2019, 13, 12969-12979.	7.3	151
68	Green Recycling Methods to Treat Lithium-Ion Batteries E-Waste: A Circular Approach to Sustainability. Advanced Materials, 2022, 34, e2103346.	11.1	148
69	Unveiling TiNb ₂ O ₇ as an Insertion Anode for Lithium Ion Capacitors with High Energy and Power Density. ChemSusChem, 2014, 7, 1858-1863.	3.6	147
70	Progress in Rechargeable Aqueous Zinc and Aluminum-Ion Battery Electrodes: Challenges and Outlook. Advanced Sustainable Systems, 2019, 3, 1800111.	2.7	147
71	Effect of poly(ethylene oxide) on ionic conductivity and electrochemical properties of poly(vinylidene fluoride) based polymer gel electrolytes prepared by electrospinning for lithium ion batteries. Journal of Power Sources, 2014, 245, 283-291.	4.0	144
72	Photocatalytic degradation of bisphenol-A by nitrogen-doped TiO ₂ hollow sphere in a vis-LED photoreactor. Applied Catalysis B: Environmental, 2010, 95, 414-422.	10.8	143

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73	TiO ₂ polymorphs in "rocking-chair"™ Li-ion batteries. <i>Materials Today</i> , 2015, 18, 345-351.	8.3	143
74	Machine Learning: An Advanced Platform for Materials Development and State Prediction in Lithium-ion Batteries. <i>Advanced Materials</i> , 2022, 34, e2101474.	11.1	140
75	Superior lithium storage properties of Li^+ -Fe ₂ O ₃ nano-assembled spindles. <i>Nano Energy</i> , 2013, 2, 890-896.	8.2	133
76	Novel Preparation of Na-Doped SnO ₂ Nanoparticles via Laser-Assisted Pyrolysis: Demonstration of Exceptional Lithium Storage Properties. <i>Advanced Materials</i> , 2017, 29, 1603286.	11.1	132
77	Effect of aluminium doping on cathodic behaviour of LiNi _{0.7} Co _{0.3} O ₂ . <i>Journal of Power Sources</i> , 2001, 93, 156-162.	4.0	131
78	Electrospun nanofibers: A prospective electro-active material for constructing high performance Li-ion batteries. <i>Chemical Communications</i> , 2015, 51, 2225-2234.	2.2	131
79	Research progress in Na-ion capacitors. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7538-7548.	5.2	131
80	Cobalt nanoparticles encapsulated in carbon nanotube-grafted nitrogen and sulfur co-doped multichannel carbon fibers as efficient bifunctional oxygen electrocatalysts. <i>Journal of Materials Chemistry A</i> , 2017, 5, 4949-4961.	5.2	129
81	Electrospun polyaniline nanofibers web electrodes for supercapacitors. <i>Journal of Applied Polymer Science</i> , 2013, 129, 1660-1668.	1.3	128
82	Fabrication of High Energy-Density Hybrid Supercapacitors Using Electrospun V ₂ O ₅ Nanofibers with a Self-Supported Carbon Nanotube Network. <i>ChemPlusChem</i> , 2012, 77, 570-575.	1.3	125
83	Exceptional Performance of TiNb ₂ O ₇ Anode in All One-Dimensional Architecture by Electrospinning. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 8660-8666.	4.0	124
84	Cadmium and Lead Ion Capture with Three Dimensionally Ordered Macroporous Hydroxyapatite. <i>Environmental Science & Technology</i> , 2006, 40, 7054-7059.	4.6	122
85	Novel polymer electrolyte based on cob-web electrospun multi component polymer blend of polyacrylonitrile/poly(methyl methacrylate)/polystyrene for lithium ion batteries" Preparation and electrochemical characterization. <i>Journal of Power Sources</i> , 2012, 202, 299-307.	4.0	122
86	Best Practices for Mitigating Irreversible Capacity Loss of Negative Electrodes in Li-ion Batteries. <i>Advanced Energy Materials</i> , 2017, 7, 1602607.	10.2	122
87	A review on the recycling of spent lithium-ion batteries (LIBs) by the bioleaching approach. <i>Chemosphere</i> , 2021, 282, 130944.	4.2	122
88	Lignin@Nafion Membranes Forming Zn Solid-Electrolyte Interfaces Enhance the Cycle Life for Rechargeable Zinc-ion Batteries. <i>ChemSusChem</i> , 2019, 12, 4889-4900.	3.6	120
89	Degradation of Methylene Blue by Three-Dimensionally Ordered Macroporous Titania. <i>Environmental Science & Technology</i> , 2007, 41, 4405-4409.	4.6	118
90	Nanostructured spinel LiNi _{0.5} Mn _{1.5} O ₄ as new insertion anode for advanced Li-ion capacitors with high power capability. <i>Nano Energy</i> , 2015, 12, 69-75.	8.2	114

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109	Size- and shape-controlled synthesis of ZnIn ₂ S ₄ nanocrystals with high photocatalytic performance. <i>CrystEngComm</i> , 2013, 15, 1922.	1.3	90
110	Synthesis of porous LiMn ₂ O ₄ hollow nanofibers by electrospinning with extraordinary lithium storage properties. <i>Chemical Communications</i> , 2013, 49, 6677.	2.2	90
111	Li-ion vs. Na-ion capacitors: A performance evaluation with coconut shell derived mesoporous carbon and natural plant based hard carbon. <i>Chemical Engineering Journal</i> , 2017, 316, 506-513.	6.6	90
112	Identifying the Origin and Contribution of Surface Storage in TiO ₂ (B) Nanotube Electrode by In Situ Dynamic Valence State Monitoring. <i>Advanced Materials</i> , 2018, 30, e1802200.	11.1	90
113	Layered VOPO ₄ as a Cathode Material for Rechargeable Zinc-Ion Battery: Effect of Polypyrrole Intercalation in the Host and Water Concentration in the Electrolyte. <i>ACS Applied Energy Materials</i> , 2019, 2, 8667-8674.	2.5	90
114	High-Performing Mesoporous Iron Oxalate Anodes for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 7011-7019.	4.0	89
115	Layered Na _x MnO _{2+z} in Sodium Ion Batteries—Influence of Morphology on Cycle Performance. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 8059-8065.	4.0	89
116	Synthesis of TiO ₂ hollow nanofibers by co-axial electrospinning and its superior lithium storage capability in full-cell assembly with olivine phosphate. <i>Nanoscale</i> , 2013, 5, 5973.	2.8	87
117	Vanadium-based polyoxometalate as new material for sodium-ion battery anodes. <i>Journal of Power Sources</i> , 2015, 288, 270-277.	4.0	87
118	Synthesis of Fe ₂ O ₃ /carbon nanocomposites as high capacity electrodes for next generation lithium ion batteries: a review. <i>Journal of Materials Chemistry A</i> , 2016, 4, 18223-18239.	5.2	85
119	Oligomer-salt derived 3D, heavily nitrogen doped, porous carbon for Li-ion hybrid electrochemical capacitors application. <i>Carbon</i> , 2014, 80, 462-471.	5.4	84
120	Effect of the Ionic Conductivity on the Performance of Polyelectrolyte-Based Supercapacitors. <i>Advanced Functional Materials</i> , 2010, 20, 4344-4350.	7.8	83
121	Taguchi optimization design of diameter-controlled synthesis of multi walled carbon nanotubes for the adsorption of Pb(II) and Ni(II) from chemical industry wastewater. <i>Chemosphere</i> , 2021, 266, 128937.	4.2	83
122	Repurposing of Fruit Peel Waste as a Green Reductant for Recycling of Spent Lithium-Ion Batteries. <i>Environmental Science & Technology</i> , 2020, 54, 9681-9692.	4.6	81
123	Improved Elevated Temperature Performance of Al-Intercalated V ₂ O ₅ Electrospun Nanofibers for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 3270-3277.	4.0	80
124	Investigating FeVO ₄ as a cathode material for aqueous aluminum-ion battery. <i>Journal of Power Sources</i> , 2019, 426, 151-161.	4.0	80
125	A chemically bonded NaTi ₂ (PO ₄) ₃ /rGO microsphere composite as a high-rate insertion anode for sodium-ion capacitors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 17506-17516.	5.2	80
126	High-Energy Density Asymmetric Supercapacitor Based on Electrospun Vanadium Pentoxide and Polyaniline Nanofibers in Aqueous Electrolyte. <i>Journal of the Electrochemical Society</i> , 2012, 159, A1481-A1488.	1.3	79

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127	Unveiling two-dimensional TiS ₂ as an insertion host for the construction of high energy Li-ion capacitors. Journal of Materials Chemistry A, 2017, 5, 9177-9181.	5.2	76
128	Facile Approach to Prepare Porous CaSnO ₃ Nanotubes via a Single Spinneret Electrospinning Technique as Anodes for Lithium Ion Batteries. ACS Applied Materials & Interfaces, 2012, 4, 6005-6012.	4.0	75
129	A General Method to Grow Porous Fe ₂ O ₃ Nanosheets on Substrates as Integrated Electrodes for Lithium-ion Batteries. Advanced Materials Interfaces, 2014, 1, 1400050.	1.9	74
130	Improving the energy density of Li-ion capacitors using polymer-derived porous carbons as cathode. Electrochimica Acta, 2014, 130, 766-770.	2.6	74
131	High-Crystallinity Urchin-like VS ₄ Anode for High-Performance Lithium-Ion Storage. ACS Applied Materials & Interfaces, 2018, 10, 14727-14734.	4.0	74
132	Synthesis and characterization of nitrogen-doped TiO ₂ /AC composite for the adsorption and photocatalytic degradation of aqueous bisphenol-A using solar light. Catalysis Today, 2010, 151, 8-13.	2.2	73
133	From Waste Paper Basket to Solid State and Li-HEC Ultracapacitor Electrodes: A Value Added Journey for Shredded Office Paper. Small, 2014, 10, 4395-4402.	5.2	73
134	Carbon-coated Li ₃ V ₂ (PO ₄) ₃ as insertion type electrode for lithium-ion hybrid electrochemical capacitors: An evaluation of anode and cathodic performance. Journal of Power Sources, 2015, 281, 310-317.	4.0	73
135	High-performance hybrid electrochemical capacitor with binder-free Nb ₂ O ₅ @graphene. RSC Advances, 2014, 4, 37389.	1.7	71
136	Metal extraction from spent lithium-ion batteries (LIBs) at high pulp density by environmentally friendly bioleaching process. Journal of Cleaner Production, 2021, 280, 124242.	4.6	71
137	Tuning the morphology of ZnMn ₂ O ₄ lithium ion battery anodes by electrospinning and its effect on electrochemical performance. RSC Advances, 2013, 3, 2812.	1.7	70
138	Boosting Zn-Ion Storage Performance of Bronze-Type VO ₂ via Ni-Mediated Electronic Structure Engineering. ACS Applied Materials & Interfaces, 2020, 12, 36110-36118.	4.0	70
139	Design and synthesis of porous channel-rich carbon nanofibers for self-standing oxygen reduction reaction and hydrogen evolution reaction bifunctional catalysts in alkaline medium. Journal of Materials Chemistry A, 2017, 5, 7507-7515.	5.2	69
140	A novel strategy to construct high performance lithium-ion cells using one dimensional electrospun nanofibers, electrodes and separators. Nanoscale, 2013, 5, 10636.	2.8	68
141	Synthesis and Cathodic Properties of LiCo _{1-x} Rh _x O ₂ (0 ≤ x ≤ 0.2) and LiRhO ₂ . Journal of the Electrochemical Society, 2001, 148, A1279.	1.3	67
142	One-Step Synthesis of SnO ₂ and TiO ₂ Hollow Nanostructures with Various Shapes and Their Enhanced Lithium Storage Properties. Chemistry - A European Journal, 2012, 18, 7561-7567.	1.7	67
143	A novel SWCNT-polyoxometalate nanohybrid material as an electrode for electrochemical supercapacitors. Nanoscale, 2015, 7, 7934-7941.	2.8	67
144	Controlled synthesis of FeOOH nanorods and their transformation to mesoporous Fe ₂ O ₃ , Fe ₃ O ₄ @C nanorods as anodes for lithium ion batteries. RSC Advances, 2013, 3, 15316.	1.7	66

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145	Highly mesoporous carbon from Teak wood sawdust as prospective electrode for the construction of high energy Li-ion capacitors. <i>Electrochimica Acta</i> , 2017, 228, 131-138.	2.6	66
146	All carbon based high energy lithium-ion capacitors from biomass: The role of crystallinity. <i>Journal of Power Sources</i> , 2019, 414, 96-102.	4.0	66
147	Template-Free Electrochemical Deposition of Interconnected ZnSb Nanoflakes for Li-Ion Battery Anodes. <i>Chemistry of Materials</i> , 2011, 23, 1032-1038.	3.2	65
148	Electrospun Zn _{1-x} Mn _x Fe ₂ O ₄ Nanofibers As Anodes for Lithium-Ion Batteries and the Impact of Mixed Transition Metallic Oxides on Battery Performance. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 5461-5467.	4.0	65
149	A Polyoxovanadate as an Advanced Electrode Material for Supercapacitors. <i>ChemPhysChem</i> , 2014, 15, 2162-2169.	1.0	65
150	Layered Trichalcogenidophosphate: A New Catalyst Family for Water Splitting. <i>Nano-Micro Letters</i> , 2018, 10, 67.	14.4	65
151	Effect of Cr dopant on the cathodic behavior of LiCoO ₂ . <i>Electrochimica Acta</i> , 2002, 48, 219-226.	2.6	64
152	Bioleaching as an Eco-Friendly Approach for Metal Recovery from Spent NMC-Based Lithium-Ion Batteries at a High Pulp Density. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 3060-3069.	3.2	64
153	Synthesis and Enhanced Lithium Storage Properties of Electrospun V ₂ O ₅ Nanofibers in Full-Cell Assembly with a Spinel Li ₄ Ti ₅ O ₁₂ Anode. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 3475-3480.	4.0	63
154	Template assisted assembly of cobalt nanobowl arrays. <i>Journal of Materials Chemistry</i> , 2005, 15, 4424.	6.7	62
155	Water in Rechargeable Multivalent-Ion Batteries: An Electrochemical Pandora's Box. <i>ChemSusChem</i> , 2019, 12, 379-396.	3.6	62
156	SBA-15 derived carbon-supported SnO ₂ nanowire arrays with improved lithium storage capabilities. <i>Journal of Materials Chemistry</i> , 2011, 21, 13860.	6.7	61
157	Hierarchical three-dimensional Fe ₃ O ₄ @porous carbon matrix/graphene anodes for high performance lithium ion batteries. <i>Electrochimica Acta</i> , 2018, 260, 965-973.	2.6	61
158	Effect of LiBOB Additive on the Electrochemical Performance of LiCoPO ₄ . <i>Journal of the Electrochemical Society</i> , 2012, 159, A1435-A1439.	1.3	60
159	Silica-assisted bottom-up synthesis of graphene-like high surface area carbon for highly efficient ultracapacitor and Li-ion hybrid capacitor applications. <i>Journal of Materials Chemistry A</i> , 2016, 4, 5578-5591.	5.2	60
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