Madhavi Srinivasan

List of Publications by Year
in descending order

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		2203	5101
354	32,879	99	166
papers	citations	h-index	g-index

362	362	362	27511
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Grid-Connected Energy Storage Systems: State-of-the-Art and Emerging Technologies. Proceedings of the IEEE, 2023, 111, 397-420.	16.4	37
2	Machine Learning: An Advanced Platform for Materials Development and State Prediction in Lithiumâ€Ion Batteries. Advanced Materials, 2022, 34, e2101474.	11.1	140
3	Green Recycling Methods to Treat Lithiumâ€Ion Batteries Eâ€Waste: A Circular Approach to Sustainability. Advanced Materials, 2022, 34, e2103346.	11.1	148
4	Direct reuse of electronic plastic scraps from computer monitor and keyboard to direct stem cell growth and differentiation. Science of the Total Environment, 2022, 807, 151085.	3.9	7
5	Enhancing the polymer electrolyteâ€“Li metal interface on high-voltage solid-state batteries with Li-based additives inspired by the surface chemistry of Li₇La₃Zr₂O₁₂. Journal of Materials Chemistry A, 2022, 10, 2352-2361.	5.2	10
6	Anode Materials for Rechargeable Aqueous Alâ€Ion Batteries: Progress and Prospects. ChemNanoMat, 2022, 8, .	1.5	4
7	Enabling Al-metal anodes for aqueous electrochemical cells by using low-cost eutectic mixtures as artificial protective interphase. Chemical Engineering Journal, 2022, 435, 134742.	6.6	16
8	Green Closed-Loop Cathode Regeneration from Spent NMC-Based Lithium-Ion Batteries through Bioleaching. ACS Sustainable Chemistry and Engineering, 2022, 10, 2634-2644.	3.2	32
9	Ultrafast Crystallization of Ordered Mesoporous Metal Oxides and Carbon from Block Copolymer Selfâ€Assembly and Joule Heating. Advanced Materials Interfaces, 2022, 9, .	1.9	6
10	Modulation of Single Atomic Co and Fe Sites on Hollow Carbon Nanospheres as Oxygen Electrodes for Rechargeable Znâ€“Air Batteries. Small Methods, 2021, 5, e2000751.	4.6	178
11	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
12	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. Chemosphere, 2021, 266, 128937.	4.2	83
13	Chelating Ligands as Electrolyte Solvent for Rechargeable Zinc-Ion Batteries. Chemistry of Materials, 2021, 33, 1330-1340.	3.2	37
14	Anion Texturing Towards Dendriteâ€Free Zn Anode for Aqueous Rechargeable Batteries. Angewandte Chemie, 2021, 133, 7289-7295.	1.6	59
15	Bioleaching as an Eco-Friendly Approach for Metal Recovery from Spent NMC-Based Lithium-Ion Batteries at a High Pulp Density. ACS Sustainable Chemistry and Engineering, 2021, 9, 3060-3069.	3.2	64
16	Binary NaClâ€“NaF and NaClâ€“LiF Flux-Mediated Growth of Mixed-Valence (V^{3+/4+}) NASICON-Type Na₃V₂(PO₄)₂F_{2.5}O_{0.5} and Na_{2.4}Li_{0.6}V₂(PO₄)₂F_{2.5}O_{0.5} for Highly Reversible Na- and Li-Ion Storage. ACS Applied Energy Materials, 2021, 4, 1387-1397.	2.5	10
17	Anion Texturing Towards Dendriteâ€Free Zn Anode for Aqueous Rechargeable Batteries. Angewandte Chemie - International Edition, 2021, 60, 7213-7219.	7.2	209
18	Undesired Reactions in Aqueous Rechargeable Zinc Ion Batteries. ACS Energy Letters, 2021, 6, 1773-1785.	8.8	173

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19	A new insight into Li-staging, in-situ electrochemical exfoliation, and superior Li storage characteristics of highly crystalline few-layered graphene. Journal of Energy Storage, 2021, 41, 102908.	3.9	5
20	Modulating Anion Redox Activity of Li_{1.2}Mn_{0.54}Ni_{0.13}Co_{0.13}O₂ through Strong Srâ€“O Bonds toward Achieving Stable Li-Ion Half-/Full-Cell Performance. ACS Applied Energy Materials, 2021, 4, 11234-11247.	2.5	5
21	A review on the recycling of spent lithium-ion batteries (LIBs) by the bioleaching approach. Chemosphere, 2021, 282, 130944.	4.2	122
22	An original recycling method for Li-ion batteries through large scale production of Metal Organic Frameworks. Journal of Hazardous Materials, 2020, 385, 121603.	6.5	40
23	Emerging rechargeable aqueous aluminum ion battery: Status, challenges, and outlooks. Nano Materials Science, 2020, 2, 248-263.	3.9	110
24	Repurposing of Fruit Peel Waste as a Green Reductant for Recycling of Spent Lithium-Ion Batteries. Environmental Science & Technology, 2020, 54, 9681-9692.	4.6	81
25	Architecting a Stable High-Energy Aqueous Al-Ion Battery. Journal of the American Chemical Society, 2020, 142, 15295-15304.	6.6	188
26	Boosting Zn-Ion Storage Performance of Bronze-Type VO₂ via Ni-Mediated Electronic Structure Engineering. ACS Applied Materials & Interfaces, 2020, 12, 36110-36118.	4.0	70
27	Co₃O₄ Nanosheets as Battery-Type Electrode for High-Energy Li-Ion Capacitors: A Sustained Li-Storage via Conversion Pathway. ACS Nano, 2020, 14, 10648-10654.	7.3	52
28	Mesoporous Titanium Oxynitride Monoliths from Block Copolymer-Directed Self-Assembly of Metalâ€“Urea Additives. Langmuir, 2020, 36, 10803-10810.	1.6	11
29	Rechargeable Al-Metal Aqueous Battery Using NaMnHCF as a Cathode: Investigating the Role of Coated-Al Anode Treatments for Superior Battery Cycling Performance. ACS Applied Energy Materials, 2020, 3, 8627-8635.	2.5	42
30	Progress and Challenges on Battery Waste Management :A Critical Review. ChemistrySelect, 2020, 5, 6182-6193.	0.7	23
31	Recycling of cathode from spent lithium iron phosphate batteries. Journal of Hazardous Materials, 2020, 399, 123068.	6.5	101
32	An Insight into the Electrochemical Activity of Al-doped V₂O₃. Journal of the Electrochemical Society, 2020, 167, 100514.	1.3	13
33	Bronze-type vanadium dioxide holey nanobelts as high performing cathode material for aqueous aluminium-ion batteries. Journal of Materials Chemistry A, 2020, 8, 12716-12722.	5.2	50
34	Multiscalar Investigation of FeVO₄ Conversion Cathode for a Low Concentration Zn(CF₃SO₃)₂ Rechargeable Znâ€‘ion Aqueous Battery. Batteries and Supercaps, 2020, 3, 619-630.	2.4	18
35	Electrochemical Performance of Bâ€Type Vanadium Dioxide as a Sodiumâ€‐ion Battery Cathode: A Combined Experimental and Theoretical Study. ChemElectroChem, 2020, 7, 3151-3159.	1.7	4
36	Supersaturated â€œwater-in-saltâ€•hybrid electrolyte towards building high voltage Na-ion capacitors with wide temperatures operation. Journal of Power Sources, 2020, 472, 228558.	4.0	26

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37	Targeted removal of aluminium and copper in Li-ion battery waste solutions by selective precipitation as valuable porous materials. Materials Letters, 2020, 268, 127564.	1.3	6
38	Green Synthesis of a Nanocrystalline Tin Disulfide-Reduced Graphene Oxide Anode from Ammonium Peroxostannate: a Highly Stable Sodium-Ion Battery Anode. ACS Sustainable Chemistry and Engineering, 2020, 8, 5485-5494.	3.2	17
39	Combining Organic and Inorganic Wastes to Form Metalâ€“Organic Frameworks. Materials, 2020, 13, 441.	1.3	12
40	Electrochemical deposition of highly porous reduced graphene oxide electrodes for Li-ion capacitors. Electrochimica Acta, 2020, 337, 135861.	2.6	10
41	Hydrogen-Bonding Interactions in Hybrid Aqueous/Nonaqueous Electrolytes Enable Low-Cost and Long-Lifespan Sodium-Ion Storage. ACS Applied Materials & Interfaces, 2020, 12, 22862-22872.	4.0	32
42	Amorphous manganese dioxide with the enhanced pseudocapacitive performance for aqueous rechargeable zinc-ion battery. Chemical Engineering Journal, 2020, 396, 125221.	6.6	94
43	MLi₂Ti₆O₁₄ (M = 2Na, Sr, Ba, Pb) Titanate Anodes for Lithium-Ion Capacitors (LICs). ECS Meeting Abstracts, 2020, MA2020-02, 641-641.	0.0	0
44	Electronic and Geometric Structures of Rechargeable Lithium Manganese Sulfate Li₂Mn(SO₄)₂ Cathode. ACS Omega, 2019, 4, 11338-11345.	1.6	2
45	Surface-Modified Hollow Ternary NiCo₂P_x Catalysts for Efficient Electrochemical Water Splitting and Energy Storage. ACS Applied Materials & Interfaces, 2019, 11, 39798-39808.	4.0	21
46	Lignin@Nafion Membranes Forming Zn Solidâ€“Electrolyte Interfaces Enhance the Cycle Life for Rechargeable Zincâ€ion Batteries. ChemSusChem, 2019, 12, 4889-4900.	3.6	120
47	Layered VOPO₄ as a Cathode Material for Rechargeable Zinc-Ion Battery: Effect of Polypyrrole Intercalation in the Host and Water Concentration in the Electrolyte. ACS Applied Energy Materials, 2019, 2, 8667-8674.	2.5	90
48	Amorphous Feâ€“Niâ€“Pâ€“Bâ€“O Nanocages as Efficient Electrocatalysts for Oxygen Evolution Reaction. ACS Nano, 2019, 13, 12969-12979.	7.3	151
49	Narsarsukite Na2TiOSi4O10 as a Low Voltage Silicate Anode for Rechargeable Li-Ion and Na-Ion Batteries. ACS Applied Energy Materials, 2019, 2, 2350-2355.	2.5	2
50	Electrochemically Induced Amorphization and Unique Lithium and Sodium Storage Pathways in FeSbO4 Nanocrystals. ACS Applied Materials & Interfaces, 2019, 11, 20082-20090.	4.0	14
51	Effect of Conducting Salts in Ionic Liquid Electrolytes for Enhanced Cyclability of Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2019, 11, 23972-23981.	4.0	27
52	Microstructurally engineered nanocrystalline Feâ€“Snâ€“Sb anodes: towards stable high energy density sodium-ion batteries. Journal of Materials Chemistry A, 2019, 7, 14145-14152.	5.2	21
53	High-performance flexible quasi-solid-state zinc-ion batteries with layer-expanded vanadium oxide cathode and zinc/stainless steel mesh composite anode. Nano Energy, 2019, 62, 94-102.	8.2	209
54	Electrochemistry-related aspects of safety of graphene-based non-aqueous electrochemical supercapacitors: a case study with MgO-decorated few-layer graphene as an electrode material. New Journal of Chemistry, 2019, 43, 9793-9801.	1.4	13

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55	Superior Li-ion storage of VS₄ nanowires anchored on reduced graphene. Nanoscale, 2019, 11, 9556-9562.	2.8	35
56	Investigation of the Electrochemical and Thermal Stability of an Ionic Liquid Based Na_{0.6}Co_{0.1}Mn_{0.9}O₂/Na_{2.55}V₆O₁₆ Sodium-Ion Full-Cell. Journal of the Electrochemical Society, 2019, 166, A944-A952.	3.1	44
57	Hollow Mesoporous Co(PO₃)₂@Carbon Polyhedra as High Performance Anode Materials for Lithium Ion Batteries. Journal of Physical Chemistry C, 2019, 123, 8599-8606.	1.5	27
58	Inverse opal manganese dioxide constructed by few-layered ultrathin nanosheets as high-performance cathodes for aqueous zinc-ion batteries. Nano Research, 2019, 12, 1347-1353.	5.8	95
59	1.3â€¯V superwide potential window sponsored by Na-Mn-O plates as cathodes towards aqueous rechargeable sodium-ion batteries. Chemical Engineering Journal, 2019, 370, 742-748.	6.6	32
60	Investigating FeVO4 as a cathode material for aqueous aluminum-ion battery. Journal of Power Sources, 2019, 426, 151-161.	4.0	80
61	From Electrodes to Electrodes: Building Highâ€Performance Liâ€ion Capacitors and Batteries from Spent Lithiumâ€ion Battery Carbonaceous Materials. ChemElectroChem, 2019, 6, 1407-1412.	1.7	42
62	Water in Rechargeable Multivalentâ€ion Batteries: Anâ€‰Electrochemical Pandora's Box. ChemSusChem, 2019, 12, 379-396.	3.6	62
63	All carbon based high energy lithium-ion capacitors from biomass: The role of crystallinity. Journal of Power Sources, 2019, 414, 96-102.	4.0	66
64	Batteries: Progress in Rechargeable Aqueous Zincâ€•and Aluminumâ€ion Battery Electrodes: Challenges and Outlook (Adv. Sustainable Syst. 1/2019). Advanced Sustainable Systems, 2019, 3, 1970004.	2.7	13
65	Progress in Rechargeable Aqueous Zincâ€•and Aluminumâ€ion Battery Electrodes: Challenges and Outlook. Advanced Sustainable Systems, 2019, 3, 1800111.	2.7	147
66	High power Na-ion capacitor with TiS2 as insertion host. Scripta Materialia, 2019, 161, 54-57.	2.6	18
67	Citric Acid Assisted Solid State Synthesis of V₂O₃, V₂O₃/C and V₂O₃/Graphene Composites for Liâ€ion Battery Anode Applications. ChemElectroChem, 2019, 6, 493-503.	1.7	27
68	Graphene Oxideâ€Supported Î²â€Tin Telluride Composite for Sodiumâ€•and Lithiumâ€ion Battery Anodes. Energy Technology, 2018, 6, 127-133.	1.8	35
69	High-Crystallinity Urchin-like VS₄ Anode for High-Performance Lithium-Ion Storage. ACS Applied Materials & Interfaces, 2018, 10, 14727-14734.	4.0	74
70	Vanadium Oxide Thin Film Formation on Graphene Oxide by Microexplosive Decomposition of Ammonium Peroxovanadate and Its Application as a Sodium Ion Battery Anode. Langmuir, 2018, 34, 2741-2747.	1.6	20
71	High energy Li-ion capacitor and battery using graphitic carbon spheres as an insertion host from cooking oil. Journal of Materials Chemistry A, 2018, 6, 3242-3248.	5.2	48
72	Two Dimensional TiS₂ as a Promising Insertion Anode for Naâ€ion Battery. ChemistrySelect, 2018, 3, 524-528.	0.7	47

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73	Elongated graphitic hollow nanofibers from vegetable oil as prospective insertion host for constructing advanced high energy Li-Ion capacitor and battery. Carbon, 2018, 134, 9-14.	5.4	29
74	Synthesis of high volumetric capacity graphene oxide-supported tellurantimony Na- and Li-ion battery anodes by hydrogen peroxide sol gel processing. Journal of Colloid and Interface Science, 2018, 512, 165-171.	5.0	29
75	Hierarchical three-dimensional Fe3O4@porous carbon matrix/graphene anodes for high performance lithium ion batteries. Electrochimica Acta, 2018, 260, 965-973.	2.6	61
76	Amorphous Vanadium Oxide Thin Films as Stable Performing Cathodes of Lithium and Sodium-Ion Batteries. Nanoscale Research Letters, 2018, 13, 363.	3.1	26
77	Synthesis and physicochemical characterization of room temperature ionic liquids and their application in sodium ion batteries. Physical Chemistry Chemical Physics, 2018, 20, 29412-29422.	1.3	21
78	Beyond intercalation based sodium-ion batteries: the role of alloying anodes, efficient sodiation mechanisms and recent progress. Sustainable Energy and Fuels, 2018, 2, 2567-2582.	2.5	27
79	Layered Trichalcogenidophosphate: A New Catalyst Family for Water Splitting. Nano-Micro Letters, 2018, 10, 67.	14.4	65
80	CoSe₂-Decorated NbSe₂ Nanosheets Fabricated via Cation Exchange for Li Storage. ACS Applied Materials & Interfaces, 2018, 10, 37773-37778.	4.0	18
81	Exploring two dimensional Co0.33In2.67S2.29Se1.71 as alloy type negative electrode for Li-ion battery with olivine LiFePO4 cathode. Materials Today Energy, 2018, 9, 19-26.	2.5	2
82	Identifying the Origin and Contribution of Surface Storage in TiO₂(B) Nanotube Electrode by In Situ Dynamic Valence State Monitoring. Advanced Materials, 2018, 30, e1802200.	11.1	90
83	Performance-improved Li-O₂ batteries by tailoring the phases of Mo_xC porous nanorods as an efficient cathode. Nanoscale, 2018, 10, 14877-14884.	2.8	28
84	Fe₂Mo₃O₈/exfoliated graphene oxide: solid-state synthesis, characterization and anodic application in Li-ion batteries. New Journal of Chemistry, 2018, 42, 12817-12823.	1.4	17
85	Unusual Liâ€Storage Behaviour of Twoâ€Dimensional ReS₂ Single Crystals. Batteries and Supercaps, 2018, 1, 69-74.	2.4	4
86	Morphology controlled lithium storage in Li₃VO₄ anodes. Journal of Materials Chemistry A, 2018, 6, 456-463.	5.2	46
87	Experimental Elucidation of a Graphenothermal Reduction Mechanism of Fe₂O₃: An Enhanced Anodic Behavior of an Exfoliated Reduced Graphene Oxide/Fe₃O₄ Composite in Li-Ion Batteries. Journal of Physical Chemistry C, 2017, 121, 3778-3789.	1.5	36
88	Li-ion vs. Na-ion capacitors: A performance evaluation with coconut shell derived mesoporous carbon and natural plant based hard carbon. Chemical Engineering Journal, 2017, 316, 506-513.	6.6	90
89	Highly mesoporous carbon from Teak wood sawdust as prospective electrode for the construction of high energy Li-ion capacitors. Electrochimica Acta, 2017, 228, 131-138.	2.6	66
90	Nanostructured intermetallic FeSn2-carbonaceous composites as highly stable anode for Na-ion batteries. Journal of Power Sources, 2017, 343, 296-302.	4.0	34

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91	In situ X-ray absorption near edge structure studies and charge transfer kinetics of Na₆[V₁₀O₂₈] electrodes. Physical Chemistry Chemical Physics, 2017, 19, 3358-3365.	1.3	31
92	Cobalt nanoparticles encapsulated in carbon nanotube-grafted nitrogen and sulfur co-doped multichannel carbon fibers as efficient bifunctional oxygen electrocatalysts. Journal of Materials Chemistry A, 2017, 5, 4949-4961.	5.2	129
93	Morphology controlled Si-modified LiNi 0.5 Mn 1.5 O 4 microspheres as high performance high voltage cathode materials in lithium ion batteries. Journal of Power Sources, 2017, 346, 89-96.	4.0	45
94	Design of 3-Dimensional Hierarchical Architectures of Carbon and Highly Active Transition Metals (Fe,) Tj ETQq0 0 0 rgBT /Overlock 10 T 2017, 29, 1665-1675.	3.2	104
95	Unveiling two-dimensional TiS₂ 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
96	Large-scale synthesis of highly uniform Fe 1â^'x S nanostructures as a high-rate anode for sodium ion batteries. Nano Energy, 2017, 37, 81-89.	8.2	161
97	Best Practices for Mitigating Irreversible Capacity Loss of Negative Electrodes in Liâ€Ion Batteries. Advanced Energy Materials, 2017, 7, 1602607.	10.2	122
98	Novel Preparation of Nâ€Doped SnO₂ Nanoparticles via Laserâ€Assisted Pyrolysis: Demonstration of Exceptional Lithium Storage Properties. Advanced Materials, 2017, 29, 1603286.	11.1	132
99	Exploring Highâ€Energy Liâ€(r)on Batteries and Capacitors with Conversionâ€Type Fe₃O₄â€rGO as the Negative Electrode. ChemElectroChem, 2017, 4, 2626-2633.	1.7	10
100	Fabrication of High Energy Liâ€"Ion Capacitors from Orange Peel Derived Porous Carbon. ChemistrySelect, 2017, 2, 5051-5058.	0.7	17
101	Exploring the influence of iron substitution in lithium rich layered oxides Li₂Ru_{1â^'x}Fe_xO₃: triggering the anionic redox reaction. Journal of Materials Chemistry A, 2017, 5, 14387-14396.	5.2	18
102	Î²â€Co(OH)₂ Nanosheets: A Superior Pseudocapacitive Electrode for Highâ€Energy Supercapacitors. Chemistry - an Asian Journal, 2017, 12, 2127-2133.	1.7	40
103	Nanoscale ion intermixing induced activation of Fe₂O₃/MnO₂ composites for application in lithium ion batteries. Journal of Materials Chemistry A, 2017, 5, 8510-8518.	5.2	57
104	Highly Stable Intermetallic FeSn₂â€Graphite Composite Anode for Sodiumâ€Ion Batteries. ChemElectroChem, 2017, 4, 1932-1936.	1.7	21
105	Solvothermal synthesis of Li3VO4: Morphology control and electrochemical performance as anode for lithium-ion batteries. International Journal of Hydrogen Energy, 2017, 42, 22167-22174.	3.8	17
106	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
107	A Review on Design Strategies for Carbon Based Metal Oxides and Sulfides Nanocomposites for High Performance Li and Na Ion Battery Anodes. Advanced Energy Materials, 2017, 7, 1601424.	10.2	486
108	Melt-Spun Feâ€"Sb Intermetallic Alloy Anode for Performance Enhanced Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 39399-39406.	4.0	48

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109	Polymeric Nanomaterials Based on the Buckybowl Motif: Synthesis through Ring-Opening Metathesis Polymerization and Energy Storage Applications. ACS Macro Letters, 2017, 6, 1212-1216.	2.3	32
110	Structural, Thermal, and Electrochemical Studies of Novel Li₂Co_xMn_{1â€“x}(SO₄)₂ Bimetallic Sulfates. Journal of Physical Chemistry C, 2017, 121, 24971-24978.	1.5	3
111	High energy Li-ion capacitors using two-dimensional TiSe_{0.6}S_{1.4} as insertion host. Journal of Materials Chemistry A, 2017, 5, 19819-19825.	5.2	31
112	Ex situ XAS investigation of effect of binders on electrochemical performance of Li₂Fe(SO₄)₂ cathode. Journal of Materials Chemistry A, 2017, 5, 19963-19971.	5.2	4
113	Interfacial Phenomena/Capacities Beyond Conversion Reaction Occurring in Nanoâ€sized Transitionâ€Metalâ€Oxideâ€Based Negative Electrodes in Lithiumâ€Ion Batteries: A Review. ChemElectroChem, 2017, 4, 2727-2754.	1.7	48
114	Evaluation of electrochemical performances of ZnFe₂O₄/Î³-Fe₂O₃nanoparticles prepared by laser pyrolysis. New Journal of Chemistry, 2017, 41, 9236-9243.	1.4	16
115	Practical Li-Ion Battery Assembly with One-Dimensional Active Materials. Journal of Physical Chemistry Letters, 2017, 8, 4031-4037.	2.1	16
116	Electrospun hollow nanofibers for advanced secondary batteries. Nano Energy, 2017, 39, 111-139.	8.2	214
117	Systematic control of Î±-Fe2O3 crystal growth direction for improved electrochemical performance of lithium-ion battery anodes. Beilstein Journal of Nanotechnology, 2017, 8, 2032-2044.	1.5	7
118	A chemically bonded NaTi₂(PO₄)₃/rGO microsphere composite as a high-rate insertion anode for sodium-ion capacitors. Journal of Materials Chemistry A, 2017, 5, 17506-17516.	5.2	80
119	Exploring Anatase TiO₂ Nanofibers as New Cathode for Constructing 1.6 V Class â€œRockingâ€Chairâ€•Type Liâ€Ion Cells. Particle and Particle Systems Characterization, 2016, 33, 306-310.	1.2	13
120	3D Interconnected Porous Graphene Sheets Loaded with Cobalt Oxide Nanoparticles for Lithiumâ€Ion Battery Anodes. Energy Technology, 2016, 4, 816-822.	1.8	7
121	A Highâ€Energy Lithiumâ€Ion Capacitor by Integration of a 3D Interconnected Titanium Carbide Nanoparticle Chain Anode with a Pyridineâ€Derived Porous Nitrogenâ€Doped Carbon Cathode. Advanced Functional Materials, 2016, 26, 3082-3093.	7.8	330
122	Mechanism of Na⁺ Insertion in Alkali Vanadates and Its Influence on Battery Performance. Advanced Energy Materials, 2016, 6, 1502336.	10.2	26
123	(0 0 1) faceted mesoporous anatase TiO 2 microcubes as superior insertion anode in practical Li-ion configuration with LiMn 2 O 4. Energy Storage Materials, 2016, 3, 106-112.	9.5	16
124	Graphene based nanocomposites for alloy (SnO2), and conversion (Fe3O4) type efficient anodes for Li-ion battery applications. Composites Science and Technology, 2016, 130, 88-95.	3.8	14
125	Research progress in Na-ion capacitors. Journal of Materials Chemistry A, 2016, 4, 7538-7548.	5.2	131
126	Pre-lithiated Li x Mn 2 O 4 : A new approach to mitigate the irreversible capacity loss in negative electrodes for Li-ion battery. Electrochimica Acta, 2016, 208, 225-230.	2.6	39

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127	A Multiâ€Walled Carbon Nanotube Core with Graphene Oxide Nanoribbon Shell as Anode Material for Sodium Ion Batteries. Advanced Materials Interfaces, 2016, 3, 1600357.	1.9	20
128	Synthesis of SnS2 single crystals and its Li-storage performance with LiMn2O4 cathode. Applied Materials Today, 2016, 5, 68-72.	2.3	19
129	Phase transition of hollow-porous Î±-Fe₂O₃ microsphere based anodes for lithium ion batteries during high rate cycling. Journal of Materials Chemistry A, 2016, 4, 16569-16575.	5.2	54
130	Silicon Doping of High Voltage Spinel LiNi 0.5 Mn 1.5 O 4 towards Superior Electrochemical Performance of Lithium Ion Batteries. Electrochimica Acta, 2016, 213, 904-910.	2.6	34
131	TiO2-reduced graphene oxide nanocomposites by microwave-assisted forced hydrolysis as excellent insertion anode for Li-ion battery and capacitor. Journal of Power Sources, 2016, 327, 171-177.	4.0	93
132	Study of lithium conducting single ion conductor based on polystyrene sulfonate for lithium battery application. Polymer, 2016, 99, 748-755.	1.8	28
133	Recent Advancements in Allâ€Vanadium Redox Flow Batteries. Advanced Materials Interfaces, 2016, 3, 1500309.	1.9	351
134	Controllable Preparation of Square Nickel Chalcogenide (NiS and NiSe₂) Nanoplates for Superior Li/Na Ion Storage Properties. ACS Applied Materials & Interfaces, 2016, 8, 25261-25267.	4.0	185
135	High energy Li-ion capacitors with conversion type Mn₃O₄ particulates anchored to few layer graphene as the negative electrode. Journal of Materials Chemistry A, 2016, 4, 15134-15139.	5.2	39
136	Overlithiated Li 1+x Ni 0.5 Mn 1.5 O 4 in all one dimensional architecture with conversion type Î±-Fe 2 O 3 : A new approach to eliminate irreversible capacity loss. Electrochimica Acta, 2016, 215, 647-651.	2.6	39
137	LiVPO₄F: A New Cathode for High-Energy Lithium Ion Capacitors. ChemistrySelect, 2016, 1, 3316-3322.	0.7	11
138	Red Mud and Liâ€Ion Batteries: A Magnetic Connection. ChemSusChem, 2016, 9, 2193-2200.	3.6	15
139	Synthesis of Î±-Fe₂O₃/carbon nanocomposites as high capacity electrodes for next generation lithium ion batteries: a review. Journal of Materials Chemistry A, 2016, 4, 18223-18239.	5.2	85
140	A comparative evaluation of differently synthesized high surface area carbons for Li-ion hybrid electrochemical supercapacitor application: Pore size distribution holds the key. Applied Materials Today, 2016, 2, 1-6.	2.3	23
141	P2â€“Na_xCo_yMn_{1â€“y}O₂ (y = 0,) Tj ETQq1 1 0.7843 Cycling Stability. Chemistry of Materials, 2016, 28, 2041-2051.	3.2	154
142	Electrospun carbon nanofibers and their hybrid composites as advanced materials for energy conversion and storage. Nano Energy, 2016, 22, 361-395.	8.2	248
143	Silica-assisted bottom-up synthesis of graphene-like high surface area carbon for highly efficient ultracapacitor and Li-ion hybrid capacitor applications. Journal of Materials Chemistry A, 2016, 4, 5578-5591.	5.2	60
144	The fabrication of LiMn2O4 and Na1.16V3O8 based full cell aqueous rechargeable battery to power portable wearable electronics devices. Materials and Design, 2016, 93, 291-296.	3.3	10

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