

Madhavi Srinivasan

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

351
papers

26,937
citations

88
h-index

151
g-index

362
ext. papers

29,763
ext. citations

8.9
avg, IF

7.49
L-index

#	Paper	IF	Citations
351	Enhancing the polymer electrolyte metal interface on high-voltage solid-state batteries with Li-based additives inspired by the surface chemistry of Li ₇ La ₃ Zr ₂ O ₁₂ . <i>Journal of Materials Chemistry A</i> , 2022 , 10, 2352-2361	13	2
350	Enabling Al-metal anodes for aqueous electrochemical cells by using low-cost eutectic mixtures as artificial protective interphase. <i>Chemical Engineering Journal</i> , 2022 , 435, 134742	14.7	2
349	Green Recycling Methods to Treat Lithium-Ion Batteries E-Waste: A Circular Approach to Sustainability. <i>Advanced Materials</i> , 2021 , e2103346	24	25
348	Direct reuse of electronic plastic scraps from computer monitor and keyboard to direct stem cell growth and differentiation. <i>Science of the Total Environment</i> , 2021 , 807, 151085	10.2	0
347	Undesired Reactions in Aqueous Rechargeable Zinc Ion Batteries. <i>ACS Energy Letters</i> , 2021 , 6, 1773-1785	20.1	48
346	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	12.8	75
345	Metal extraction from spent lithium-ion batteries (LIBs) at high pulp density by environmentally friendly bioleaching process. <i>Journal of Cleaner Production</i> , 2021 , 280, 124242	10.3	23
344	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	8.4	33
343	Chelating Ligands as Electrolyte Solvent for Rechargeable Zinc-Ion Batteries. <i>Chemistry of Materials</i> , 2021 , 33, 1330-1340	9.6	16
342	Anion Texturing Towards Dendrite-Free Zn Anode for Aqueous Rechargeable Batteries. <i>Angewandte Chemie</i> , 2021 , 133, 7289-7295	3.6	22
341	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	8.3	16
340	Binary NaCl NaF and NaCl LiF Flux-Mediated Growth of Mixed-Valence (V ³⁺ /V ⁴⁺) NASICON-Type Na ₃ V ₂ (PO ₄) ₂ F _{2.5} O _{0.5} and Na _{2.4} Li _{0.6} V ₂ (PO ₄) ₂ F _{2.5} O _{0.5} for Highly Reversible Na- and Li-Ion Storage. <i>ACS Applied Energy Materials</i> , 2021 , 4, 1387-1397	6.1	1
339	Anion Texturing Towards Dendrite-Free Zn Anode for Aqueous Rechargeable Batteries. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 7213-7219	16.4	68
338	Machine Learning: An Advanced Platform for Materials Development and State Prediction in Lithium-Ion Batteries. <i>Advanced Materials</i> , 2021 , e2101474	24	14
337	A new insight into Li-staging, in-situ electrochemical exfoliation, and superior Li storage characteristics of highly crystalline few-layered graphene. <i>Journal of Energy Storage</i> , 2021 , 41, 102908	7.8	1
336	A review on the recycling of spent lithium-ion batteries (LIBs) by the bioleaching approach. <i>Chemosphere</i> , 2021 , 282, 130944	8.4	33
335	Progress and Challenges on Battery Waste Management :A Critical Review. <i>ChemistrySelect</i> , 2020 , 5, 6182-6193	1.8	7

334	Recycling of cathode from spent lithium iron phosphate batteries. <i>Journal of Hazardous Materials</i> , 2020 , 399, 123068	12.8	29
333	An Insight into the Electrochemical Activity of Al-doped V ₂ O ₃ . <i>Journal of the Electrochemical Society</i> , 2020 , 167, 100514	3.9	5
332	Bronze-type vanadium dioxide holey nanobelts as high performing cathode material for aqueous aluminium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 12716-12722	13	21
331	Multiscalar Investigation of FeVO ₄ Conversion Cathode for a Low Concentration Zn(CF ₃ SO ₃) ₂ Rechargeable Zn-Ion Aqueous Battery. <i>Batteries and Supercaps</i> , 2020 , 3, 619-630	5.6	8
330	Electrochemical Performance of B-Type Vanadium Dioxide as a Sodium-Ion Battery Cathode: A Combined Experimental and Theoretical Study. <i>ChemElectroChem</i> , 2020 , 7, 3151-3159	4.3	1
329	Supersaturated Water-in-salt hybrid electrolyte towards building high voltage Na-ion capacitors with wide temperatures operation. <i>Journal of Power Sources</i> , 2020 , 472, 228558	8.9	13
328	Targeted removal of aluminium and copper in Li-ion battery waste solutions by selective precipitation as valuable porous materials. <i>Materials Letters</i> , 2020 , 268, 127564	3.3	2
327	Green Synthesis of a Nanocrystalline Tin Disulfide-Reduced Graphene Oxide Anode from Ammonium Peroxostannate: a Highly Stable Sodium-Ion Battery Anode. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 5485-5494	8.3	9
326	Combining Organic and Inorganic Wastes to Form Metal-Organic Frameworks. <i>Materials</i> , 2020 , 13,	3.5	6
325	Electrochemical deposition of highly porous reduced graphene oxide electrodes for Li-ion capacitors. <i>Electrochimica Acta</i> , 2020 , 337, 135861	6.7	9
324	Hydrogen-Bonding Interactions in Hybrid Aqueous/Nonaqueous Electrolytes Enable Low-Cost and Long-Lifespan Sodium-Ion Storage. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 22862-22872	9.5	12
323	Amorphous manganese dioxide with the enhanced pseudocapacitive performance for aqueous rechargeable zinc-ion battery. <i>Chemical Engineering Journal</i> , 2020 , 396, 125221	14.7	44
322	An original recycling method for Li-ion batteries through large scale production of Metal Organic Frameworks. <i>Journal of Hazardous Materials</i> , 2020 , 385, 121603	12.8	22
321	Emerging rechargeable aqueous aluminum ion battery: Status, challenges, and outlooks. <i>Nano Materials Science</i> , 2020 , 2, 248-263	10.2	61
320	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	10.3	25
319	Architecting a Stable High-Energy Aqueous Al-Ion Battery. <i>Journal of the American Chemical Society</i> , 2020 , 142, 15295-15304	16.4	94
318	Boosting Zn-Ion Storage Performance of Bronze-Type VO Ni-Mediated Electronic Structure Engineering. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 36110-36118	9.5	34
317	CoO Nanosheets as Battery-Type Electrode for High-Energy Li-Ion Capacitors: A Sustained Li-Storage Conversion Pathway. <i>ACS Nano</i> , 2020 , 14, 10648-10654	16.7	29

316	Mesoporous Titanium Oxynitride Monoliths from Block Copolymer-Directed Self-Assembly of Metal-Urea Additives. <i>Langmuir</i> , 2020 , 36, 10803-10810	4	8
315	Rechargeable Al-Metal Aqueous Battery Using NaMnHCF as a Cathode: Investigating the Role of Coated-Al Anode Treatments for Superior Battery Cycling Performance. <i>ACS Applied Energy Materials</i> , 2020 , 3, 8627-8635	6.1	17
314	Narsarsukite Na ₂ TiOSi ₄ O ₁₀ as a Low Voltage Silicate Anode for Rechargeable Li-Ion and Na-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2019 , 2, 2350-2355	6.1	2
313	Electrochemically Induced Amorphization and Unique Lithium and Sodium Storage Pathways in FeSbO Nanocrystals. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 20082-20090	9.5	11
312	Effect of Conducting Salts in Ionic Liquid Electrolytes for Enhanced Cyclability of Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 23972-23981	9.5	13
311	Microstructurally engineered nanocrystalline Fe ₃ N ₂ anodes: towards stable high energy density sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 14145-14152	13	14
310	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	17.1	127
309	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. <i>New Journal of Chemistry</i> , 2019 , 43, 9793-9801	3.6	6
308	Superior Li-ion storage of VS nanowires anchored on reduced graphene. <i>Nanoscale</i> , 2019 , 11, 9556-9562	7.7	21
307	Investigation of the Electrochemical and Thermal Stability of an Ionic Liquid Based Na _{0.6} Co _{0.1} Mn _{0.9} O ₂ /Na _{2.55} V ₆ O ₁₆ Sodium-Ion Full-Cell. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A944-A952	3.9	3
306	Hollow Mesoporous Co(PO ₃) ₂ @Carbon Polyhedra as High Performance Anode Materials for Lithium Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 8599-8606	3.8	18
305	Inverse opal manganese dioxide constructed by few-layered ultrathin nanosheets as high-performance cathodes for aqueous zinc-ion batteries. <i>Nano Research</i> , 2019 , 12, 1347-1353	10	62
304	1.3 V superwide potential window sponsored by Na-Mn-O plates as cathodes towards aqueous rechargeable sodium-ion batteries. <i>Chemical Engineering Journal</i> , 2019 , 370, 742-748	14.7	23
303	Investigating FeVO ₄ as a cathode material for aqueous aluminum-ion battery. <i>Journal of Power Sources</i> , 2019 , 426, 151-161	8.9	43
302	Electronic and Geometric Structures of Rechargeable Lithium Manganese Sulfate LiMn(SO) ₄ Cathode. <i>ACS Omega</i> , 2019 , 4, 11338-11345	3.9	0
301	Surface-Modified Hollow Ternary NiCoP Catalysts for Efficient Electrochemical Water Splitting and Energy Storage. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 39798-39808	9.5	13
300	Lignin@Nafion Membranes Forming Zn Solid-Electrolyte Interfaces Enhance the Cycle Life for Rechargeable Zinc-Ion Batteries. <i>ChemSusChem</i> , 2019 , 12, 4889-4900	8.3	64
299	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	6.1	50

298	Amorphous Fe-Ni-P-B-O Nanocages as Efficient Electrocatalysts for Oxygen Evolution Reaction. <i>ACS Nano</i> , 2019 , 13, 12969-12979	16.7	80
297	From Electrodes to Electrodes: Building High-Performance Li-Ion Capacitors and Batteries from Spent Lithium-Ion Battery Carbonaceous Materials. <i>ChemElectroChem</i> , 2019 , 6, 1407-1412	4.3	25
296	Water in Rechargeable Multivalent-Ion Batteries: An Electrochemical Pandora's Box. <i>ChemSusChem</i> , 2019 , 12, 379-396	8.3	48
295	All carbon based high energy lithium-ion capacitors from biomass: The role of crystallinity. <i>Journal of Power Sources</i> , 2019 , 414, 96-102	8.9	45
294	Batteries: Progress in Rechargeable Aqueous Zinc- and Aluminum-Ion Battery Electrodes: Challenges and Outlook (Adv. Sustainable Syst. 1/2019). <i>Advanced Sustainable Systems</i> , 2019 , 3, 1970004	5.9	9
293	Progress in Rechargeable Aqueous Zinc- and Aluminum-Ion Battery Electrodes: Challenges and Outlook. <i>Advanced Sustainable Systems</i> , 2019 , 3, 1800111	5.9	104
292	High power Na-ion capacitor with TiS ₂ as insertion host. <i>Scripta Materialia</i> , 2019 , 161, 54-57	5.6	14
291	Citric Acid Assisted Solid State Synthesis of V ₂ O ₃ , V ₂ O ₃ /C and V ₂ O ₃ /Graphene Composites for Li-ion Battery Anode Applications. <i>ChemElectroChem</i> , 2019 , 6, 493-503	4.3	17
290	Graphene Oxide-Supported Bi ₂ Te ₃ in Telluride Composite for Sodium- and Lithium-Ion Battery Anodes. <i>Energy Technology</i> , 2018 , 6, 127-133	3.5	26
289	High-Crystallinity Urchin-like VS Anode for High-Performance Lithium-Ion Storage. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 14727-14734	9.5	47
288	Vanadium Oxide Thin Film Formation on Graphene Oxide by Microexplosive Decomposition of Ammonium Peroxovanadate and Its Application as a Sodium Ion Battery Anode. <i>Langmuir</i> , 2018 , 34, 27411-27417	16	
287	High energy Li-ion capacitor and battery using graphitic carbon spheres as an insertion host from cooking oil. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 3242-3248	13	40
286	Two Dimensional TiS ₂ as a Promising Insertion Anode for Na-Ion Battery. <i>ChemistrySelect</i> , 2018 , 3, 524-528		34
285	Elongated graphitic hollow nanofibers from vegetable oil as prospective insertion host for constructing advanced high energy Li-Ion capacitor and battery. <i>Carbon</i> , 2018 , 134, 9-14	10.4	24
284	Synthesis of high volumetric capacity graphene oxide-supported tellurantimony Na- and Li-ion battery anodes by hydrogen peroxide sol gel processing. <i>Journal of Colloid and Interface Science</i> , 2018 , 512, 165-171	9.3	23
283	Performance-improved Li-O batteries by tailoring the phases of MoC porous nanorods as an efficient cathode. <i>Nanoscale</i> , 2018 , 10, 14877-14884	7.7	21
282	Fe ₂ Mo ₃ O ₈ /exfoliated graphene oxide: solid-state synthesis, characterization and anodic application in Li-ion batteries. <i>New Journal of Chemistry</i> , 2018 , 42, 12817-12823	3.6	13
281	Unusual Li-Storage Behaviour of Two-Dimensional ReS ₂ Single Crystals. <i>Batteries and Supercaps</i> , 2018 , 1, 69-74	5.6	3

280	Morphology controlled lithium storage in Li ₃ VO ₄ anodes. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 456-463	4.63	32
279	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	6.7	45
278	Amorphous Vanadium Oxide Thin Films as Stable Performing Cathodes of Lithium and Sodium-Ion Batteries. <i>Nanoscale Research Letters</i> , 2018 , 13, 363	5	15
277	Synthesis and physicochemical characterization of room temperature ionic liquids and their application in sodium ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 29412-29422	3.6	12
276	Beyond intercalation based sodium-ion batteries: the role of alloying anodes, efficient sodiation mechanisms and recent progress. <i>Sustainable Energy and Fuels</i> , 2018 , 2, 2567-2582	5.8	22
275	Route of Irreversible Transformation in Layered Tin Thiophosphite and Enhanced Lithium Storage Performance. <i>ACS Applied Energy Materials</i> , 2018 ,	6.1	4
274	Layered Trichalcogenidophosphate: A New Catalyst Family for Water Splitting. <i>Nano-Micro Letters</i> , 2018 , 10, 67	19.5	44
273	CoSe-Decorated NbSe Nanosheets Fabricated via Cation Exchange for Li Storage. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 37773-37778	9.5	10
272	Electrochemical Route to Alleviate Irreversible Capacity Loss from Conversion Type Fe ₂ O ₃ Anodes by LiVPO ₄ F Prelithiation. <i>ACS Applied Energy Materials</i> , 2018 ,	6.1	4
271	Exploring two dimensional Co _{0.33} In _{2.67} S _{2.29} Se _{1.71} as alloy type negative electrode for Li-ion battery with olivine LiFePO ₄ cathode. <i>Materials Today Energy</i> , 2018 , 9, 19-26	7	1
270	Identifying the Origin and Contribution of Surface Storage in TiO (B) Nanotube Electrode by In Situ Dynamic Valence State Monitoring. <i>Advanced Materials</i> , 2018 , 30, e1802200	24	72
269	Experimental Elucidation of a Graphenothermal Reduction Mechanism of Fe ₂ O ₃ : An Enhanced Anodic Behavior of an Exfoliated Reduced Graphene Oxide/Fe ₃ O ₄ Composite in Li-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 3778-3789	3.8	26
268	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	14.7	64
267	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	6.7	56
266	Nanostructured intermetallic FeSn ₂ -carbonaceous composites as highly stable anode for Na-ion batteries. <i>Journal of Power Sources</i> , 2017 , 343, 296-302	8.9	27
265	In situ X-ray absorption near edge structure studies and charge transfer kinetics of Na[VO] electrodes. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 3358-3365	3.6	23
264	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	13	101
263	Morphology controlled Si-modified LiNi _{0.5} Mn _{1.5} O ₄ microspheres as high performance high voltage cathode materials in lithium ion batteries. <i>Journal of Power Sources</i> , 2017 , 346, 89-96	8.9	39

262	Design of 3-Dimensional Hierarchical Architectures of Carbon and Highly Active Transition Metals (Fe, Co, Ni) as Bifunctional Oxygen Catalysts for Hybrid Lithium-Air Batteries. <i>Chemistry of Materials</i> , 2017 , 29, 1665-1675	9.6	91
261	Unveiling two-dimensional TiS ₂ as an insertion host for the construction of high energy Li-ion capacitors. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 9177-9181	13	62
260	Large-scale synthesis of highly uniform Fe _{1-x} S nanostructures as a high-rate anode for sodium ion batteries. <i>Nano Energy</i> , 2017 , 37, 81-89	17.1	137
259	Best Practices for Mitigating Irreversible Capacity Loss of Negative Electrodes in Li-Ion Batteries. <i>Advanced Energy Materials</i> , 2017 , 7, 1602607	21.8	96
258	Novel Preparation of N-Doped SnO Nanoparticles via Laser-Assisted Pyrolysis: Demonstration of Exceptional Lithium Storage Properties. <i>Advanced Materials</i> , 2017 , 29, 1603286	24	109
257	Exploring High-Energy Li-Ion Batteries and Capacitors with Conversion-Type Fe ₃ O ₄ -rGO as the Negative Electrode. <i>ChemElectroChem</i> , 2017 , 4, 2626-2633	4.3	8
256	Fabrication of High Energy Li-Ion Capacitors from Orange Peel Derived Porous Carbon. <i>ChemistrySelect</i> , 2017 , 2, 5051-5058	1.8	15
255	Exploring the influence of iron substitution in lithium rich layered oxides Li ₂ Ru _{1-x} FexO ₃ : triggering the anionic redox reaction. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 14387-14396	13	13
254	Co(OH) Nanosheets: A Superior Pseudocapacitive Electrode for High-Energy Supercapacitors. <i>Chemistry - an Asian Journal</i> , 2017 , 12, 2127-2133	4.5	30
253	Nanoscale ion intermixing induced activation of Fe ₂ O ₃ /MnO ₂ composites for application in lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 8510-8518	13	47
252	Highly Stable Intermetallic FeSn ₂ -Graphite Composite Anode for Sodium-Ion Batteries. <i>ChemElectroChem</i> , 2017 , 4, 1932-1936	4.3	11
251	Solvothermal synthesis of Li ₃ VO ₄ : Morphology control and electrochemical performance as anode for lithium-ion batteries. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 22167-22174	6.7	12
250	Design and synthesis of porous channel-rich carbon nanofibers for self-standing oxygen reduction reaction and hydrogen evolution reaction bifunctional catalysts in alkaline medium. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 7507-7515	13	59
249	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	21.8	389
248	Melt-Spun Fe-Sb Intermetallic Alloy Anode for Performance Enhanced Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 39399-39406	9.5	33
247	Polymeric Nanomaterials Based on the Buckybowl Motif: Synthesis through Ring-Opening Metathesis Polymerization and Energy Storage Applications. <i>ACS Macro Letters</i> , 2017 , 6, 1212-1216	6.6	25
246	Structural, Thermal, and Electrochemical Studies of Novel Li ₂ CoxMn _{1-x} (SO ₄) ₂ Bimetallic Sulfates. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 24971-24978	3.8	3
245	Systematic control of FeO crystal growth direction for improved electrochemical performance of lithium-ion battery anodes. <i>Beilstein Journal of Nanotechnology</i> , 2017 , 8, 2032-2044	3	6

244	High energy Li-ion capacitors using two-dimensional TiSe _{0.6} S _{1.4} as insertion host. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 19819-19825	13	23
243	Ex situ XAS investigation of effect of binders on electrochemical performance of Li ₂ Fe(SO ₄) ₂ cathode. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 19963-19971	13	4
242	Interfacial Phenomena/Capacities Beyond Conversion Reaction Occurring in Nano-sized Transition-Metal-Oxide-Based Negative Electrodes in Lithium-Ion Batteries: A Review. <i>ChemElectroChem</i> , 2017 , 4, 2727-2754	4.3	30
241	Evaluation of electrochemical performances of ZnFe ₂ O ₄ /Fe ₂ O ₃ nanoparticles prepared by laser pyrolysis. <i>New Journal of Chemistry</i> , 2017 , 41, 9236-9243	3.6	8
240	Practical Li-Ion Battery Assembly with One-Dimensional Active Materials. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 4031-4037	6.4	15
239	Electrospun hollow nanofibers for advanced secondary batteries. <i>Nano Energy</i> , 2017 , 39, 111-139	17.1	147
238	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	13	64
237	Rusted iron wire waste into high performance anode (Fe ₂ O ₃) for Li-ion batteries: an efficient waste management approach. <i>Green Chemistry</i> , 2016 , 18, 1395-1404	10	32
236	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, 25261-7	9.5	145
235	High energy Li-ion capacitors with conversion type Mn ₃ O ₄ particulates anchored to few layer graphene as the negative electrode. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 15134-15139	13	34
234	Overlithiated Li _{1+x} Ni _{0.5} Mn _{1.5} O ₄ in all one dimensional architecture with conversion type Fe ₂ O ₃ : A new approach to eliminate irreversible capacity loss. <i>Electrochimica Acta</i> , 2016 , 215, 647-651	6.7	27
233	LiVPO ₄ F: A New Cathode for High-Energy Lithium Ion Capacitors. <i>ChemistrySelect</i> , 2016 , 1, 3316-3322	1.8	8
232	Red Mud and Li-Ion Batteries: A Magnetic Connection. <i>ChemSusChem</i> , 2016 , 9, 2193-200	8.3	10
231	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	13	71
230	A comparative evaluation of differently synthesized high surface area carbons for Li-ion hybrid electrochemical supercapacitor application: Pore size distribution holds the key. <i>Applied Materials Today</i> , 2016 , 2, 1-6	6.6	20
229	P ₂ NaxCo _y Mn _{1-y} O ₂ (y = 0, 0.1) as Cathode Materials in Sodium-Ion Batteries—Effects of Doping and Morphology To Enhance Cycling Stability. <i>Chemistry of Materials</i> , 2016 , 28, 2041-2051	9.6	124
228	Electrospun carbon nanofibers and their hybrid composites as advanced materials for energy conversion and storage. <i>Nano Energy</i> , 2016 , 22, 361-395	17.1	200
227	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	13	52

226	The fabrication of LiMn ₂ O ₄ and Na _{1.16} V ₃ O ₈ based full cell aqueous rechargeable battery to power portable wearable electronics devices. <i>Materials and Design</i> , 2016 , 93, 291-296	8.1	7
225	Multi-functional electrospun nanofibres for advances in tissue regeneration, energy conversion & storage, and water treatment. <i>Chemical Society Reviews</i> , 2016 , 45, 1225-41	58.5	274
224	Conversion of uniform graphene oxide/polypyrrole composites into functionalized 3D carbon nanosheet frameworks with superior supercapacitive and sodium-ion storage properties. <i>Journal of Power Sources</i> , 2016 , 307, 17-24	8.9	21
223	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	10.4	189
222	Polypyrrole-coated hierarchical porous composites nanoarchitectures for advanced solid-state flexible hybrid devices. <i>Nano Energy</i> , 2016 , 19, 307-317	17.1	26
221	Exploring Anatase TiO ₂ Nanofibers as New Cathode for Constructing 1.6 V Class Rocking-Chair Type Li-Ion Cells. <i>Particle and Particle Systems Characterization</i> , 2016 , 33, 306-310	3.1	11
220	3D Interconnected Porous Graphene Sheets Loaded with Cobalt Oxide Nanoparticles for Lithium-Ion Battery Anodes. <i>Energy Technology</i> , 2016 , 4, 816-822	3.5	5
219	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	15.6	292
218	Mechanism of Na ⁺ Insertion in Alkali Vanadates and Its Influence on Battery Performance. <i>Advanced Energy Materials</i> , 2016 , 6, 1502336	21.8	20
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213	A Multi-Walled Carbon Nanotube Core with Graphene Oxide Nanoribbon Shell as Anode Material for Sodium Ion Batteries. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600357	4.6	19
212	Synthesis of SnS ₂ single crystals and its Li-storage performance with LiMn ₂ O ₄ cathode. <i>Applied Materials Today</i> , 2016 , 5, 68-72	6.6	17
211	Phase transition of hollow-porous Fe ₂ O ₃ microsphere based anodes for lithium ion batteries during high rate cycling. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 16569-16575	13	42
210	Silicon Doping of High Voltage Spinel LiNi _{0.5} Mn _{1.5} O ₄ towards Superior Electrochemical Performance of Lithium Ion Batteries. <i>Electrochimica Acta</i> , 2016 , 213, 904-910	6.7	22
209	TiO ₂ -reduced graphene oxide nanocomposites by microwave-assisted forced hydrolysis as excellent insertion anode for Li-ion battery and capacitor. <i>Journal of Power Sources</i> , 2016 , 327, 171-177	8.9	81

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204	Recent developments in electrode materials for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 9353-9378	13	357
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200	Few-layered Ni(OH) ₂ nanosheets for high-performance supercapacitors. <i>Journal of Power Sources</i> , 2015 , 295, 323-328	8.9	146
199	Synthesis of multimodal porous ZnCo ₂ O ₄ and its electrochemical properties as an anode material for lithium ion batteries. <i>Journal of Power Sources</i> , 2015 , 294, 112-119	8.9	83
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188	Macroporous carbon from human hair: A journey towards the fabrication of high energy Li-ion capacitors. <i>Electrochimica Acta</i> , 2015 , 182, 474-481	6.7	37
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