Madhavi Srinivasan

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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	Constructing hierarchical spheres from large ultrathin anatase TiO2 nanosheets with nearly 100% exposed (001) facets for fast reversible lithium storage. *Journal of the American Chemical Society*, **2010**, 132, 6124-30	16.4	1149
350	Formation of Fe2O3 microboxes with hierarchical shell structures from metal-organic frameworks and their lithium storage properties. *Journal of the American Chemical Society*, **2012**, 134, 17388-91	16.4	841
349	Assembling carbon-coated □Fe2O3 hollow nanohorns on the CNT backbone for superior lithium storage capability. *Energy and Environmental Science*, **2012**, 5, 5252-5256	35.4	708
348	Insertion-type electrodes for nonaqueous Li-ion capacitors. *Chemical Reviews*, **2014**, 114, 11619-35	68.1	533
347	Controlled Growth of NiMoO4 Nanosheet and Nanorod Arrays on Various Conductive Substrates as Advanced Electrodes for Asymmetric Supercapacitors. *Advanced Energy Materials*, **2015**, 5, 1401172	21.8	454
346	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	21.8	389
345	Achieving high specific charge capacitances in Fe3O4/reduced graphene oxide nanocomposites. *Journal of Materials Chemistry*, **2011**, 21, 3422		378
344	MS2 (M = Co and Ni) Hollow Spheres with Tunable Interiors for High-Performance Supercapacitors and Photovoltaics. *Advanced Functional Materials*, **2014**, 24, 2155-2162	15.6	362
343	Research Progress on Negative Electrodes for Practical Li-Ion Batteries: Beyond Carbonaceous Anodes. *Advanced Energy Materials*, **2015**, 5, 1402225	21.8	361
342	Recent developments in electrode materials for sodium-ion batteries. *Journal of Materials Chemistry A*, **2015**, 3, 9353-9378	13	357
341	In situ growth of NiCo(2)S(4) nanosheets on graphene for high-performance supercapacitors. *Chemical Communications*, **2013**, 49, 10178-80	5.8	347
340	LiMnPO4 □A next generation cathode material for lithium-ion batteries. *Journal of Materials Chemistry A*, **2013**, 1, 3518	13	342
339	3D micro-porous conducting carbon beehive by single step polymer carbonization for high performance supercapacitors: the magic of in situ porogen formation. *Energy and Environmental Science*, **2014**, 7, 728-735	35.4	304
338	Fabrication of spinel one-dimensional architectures by single-spinneret electrospinning for energy storage applications. *ACS Nano*, **2015**, 9, 1945-54	16.7	302
337	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. *Advanced Functional Materials*, **2016**, 26, 3082-3093	15.6	292
336	Graphene-supported anatase TiO2 nanosheets for fast lithium storage. *Chemical Communications*, **2011**, 47, 5780-2	5.8	289
335	Multi-functional electrospun nanofibres for advances in tissue regeneration, energy conversion & storage, and water treatment. *Chemical Society Reviews*, **2016**, 45, 1225-41	58.5	274

334	Green Synthesis of NiO Nanobelts with Exceptional Pseudo-Capacitive Properties. *Advanced Energy Materials*, **2012**, 2, 1188-1192	21.8	274
333	Lithium-ion conducting electrolyte salts for lithium batteries. *Chemistry - A European Journal*, **2011**, 17, 14326-46	4.8	268
332	Synthesis and electrochemical properties of electrospun V2O5 nanofibers as supercapacitor electrodes. *Journal of Materials Chemistry*, **2010**, 20, 6720		255
331	Recent Advancements in All-Vanadium Redox Flow Batteries. *Advanced Materials Interfaces*, **2016**, 3, 1500309	4.6	253
330	□Fe2O3 nanotubes with superior lithium storage capability. *Chemical Communications*, **2011**, 47, 8061-3	5.8	246
329	Two-Dimensional Tin Disulfide Nanosheets for Enhanced Sodium Storage. *ACS Nano*, **2015**, 9, 11371-81	16.7	231
328	The facile synthesis of hierarchical porous flower-like NiCo2O4 with superior lithium storage properties. *Journal of Materials Chemistry A*, **2013**, 1, 10935	13	227
327	Engineering nonspherical hollow structures with complex interiors by template-engaged redox etching. *Journal of the American Chemical Society*, **2010**, 132, 16271-7	16.4	223
326	Ultralong □MoO3 Nanobelts: Synthesis and Effect of Binder Choice on Their Lithium Storage Properties. *Journal of Physical Chemistry C*, **2012**, 116, 12508-12513	3.8	221
325	Electrospun porous NiCo2O4 nanotubes as advanced electrodes for electrochemical capacitors. *Chemistry - A European Journal*, **2013**, 19, 5892-8	4.8	220
324	One-Pot Synthesis of Tunable Crystalline Ni3 S4 @Amorphous MoS2 Core/Shell Nanospheres for High-Performance Supercapacitors. *Small*, **2015**, 11, 3694-702	11	218
323	Synthesis of CuO nanostructures from Cu-based metal organic framework (MOF-199) for application as anode for Li-ion batteries. *Nano Energy*, **2013**, 2, 1158-1163	17.1	217
322	SnO2 Nanoparticles with Controlled Carbon Nanocoating as High-Capacity Anode Materials for Lithium-Ion Batteries. *Journal of Physical Chemistry C*, **2009**, 113, 20504-20508	3.8	215
321	Carbon coated nano-LiTi2(PO4)3 electrodes for non-aqueous hybrid supercapacitors. *Physical Chemistry Chemical Physics*, **2012**, 14, 5808-14	3.6	213
320	1D hollow □Fe2O3 electrospun nanofibers as high performance anode material for lithium ion batteries. *Journal of Materials Chemistry*, **2012**, 22, 23049		207
319	Electrospun carbon nanofibers and their hybrid composites as advanced materials for energy conversion and storage. *Nano Energy*, **2016**, 22, 361-395	17.1	200
318	Nanoweb anodes composed of one-dimensional, high aspect ratio, size tunable electrospun ZnFe2O4 nanofibers for lithium ion batteries. *Journal of Materials Chemistry*, **2011**, 21, 14999		197
317	Activated carbons derived from coconut shells as high energy density cathode material for Li-ion capacitors. *Scientific Reports*, **2013**, 3, 3002	4.9	195

316	Fast Synthesis of MoO3 Nanorods with Controlled Aspect Ratios and Their Enhanced Lithium Storage Capabilities. *Journal of Physical Chemistry C*, **2010**, 114, 8675-8678	3.8	190
315	Preparation of nitrogen- and phosphorous co-doped carbon microspheres and their superior performance as anode in sodium-ion batteries. *Carbon*, **2016**, 99, 556-563	10.4	189
314	Hybrid supercapacitor with nano-TiP2O7 as intercalation electrode. *Journal of Power Sources*, **2011**, 196, 8850-8854	8.9	185
313	Cobalt Oxide Nanowall Arrays on Reduced Graphene Oxide Sheets with Controlled Phase, Grain Size, and Porosity for Li-Ion Battery Electrodes. *Journal of Physical Chemistry C*, **2011**, 115, 8400-8406	3.8	181
312	A Flexible Quasi-Solid-State Asymmetric Electrochemical Capacitor Based on Hierarchical Porous V2O5 Nanosheets on Carbon Nanofibers. *Advanced Energy Materials*, **2015**, 5, 1500753	21.8	178
311	High Aspect Ratio Electrospun CuO Nanofibers as Anode Material for Lithium-Ion Batteries with Superior Cycleability. *Journal of Physical Chemistry C*, **2012**, 116, 18087-18092	3.8	175
310	One-pot synthesis of uniform carbon-coated MoO(2) nanospheres for high-rate reversible lithium storage. *Chemical Communications*, **2010**, 46, 6906-8	5.8	172
309	Electrospun TiO2Graphene Composite Nanofibers as a Highly Durable Insertion Anode for Lithium Ion Batteries. *Journal of Physical Chemistry C*, **2012**, 116, 14780-14788	3.8	171
308	Printable photo-supercapacitor using single-walled carbon nanotubes. *Energy and Environmental Science*, **2011**, 4, 413-416	35.4	167
307	TiO2 hollow spheres with large amount of exposed (001) facets for fast reversible lithium storage. *Journal of Materials Chemistry*, **2011**, 21, 1677-1680		167
306	Electrospun NiO nanofibers as high performance anode material for Li-ion batteries. *Journal of Power Sources*, **2013**, 227, 284-290	8.9	164
305	Metal oxyfluorides TiOF2 and NbO2F as anodes for Li-ion batteries. *Journal of Power Sources*, **2006**, 162, 1312-1321	8.9	163
304	CuO nanostructures supported on Cu substrate as integrated electrodes for highly reversible lithium storage. *Nanoscale*, **2011**, 3, 1618-23	7.7	157
303	High power lithium-ion hybrid electrochemical capacitors using spinel LiCrTiO4 as insertion electrode. *Journal of Materials Chemistry*, **2012**, 22, 16026		152
302	Cobalt Sulfide Nanosheet/Graphene/Carbon Nanotube Nanocomposites as Flexible Electrodes for Hydrogen Evolution. *Angewandte Chemie*, **2014**, 126, 12802-12807	3.6	149
301	Electrospun hollow nanofibers for advanced secondary batteries. *Nano Energy*, **2017**, 39, 111-139	17.1	147
300	Few-layered Ni(OH)2 nanosheets for high-performance supercapacitors. *Journal of Power Sources*, **2015**, 295, 323-328	8.9	146
299	Controllable Preparation of Square Nickel Chalcogenide (NiS and NiSe2) Nanoplates for Superior Li/Na Ion Storage Properties. *ACS Applied Materials & Interfaces*, **2016**, 8, 25261-7	9.5	145

298	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, 4387-94	7.7	144
297	Carbon Nanotube-Encapsulated Noble Metal Nanoparticle Hybrid as a Cathode Material for Li-Oxygen Batteries. *Advanced Functional Materials*, **2014**, 24, 6516-6523	15.6	143
296	TiO2/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	11.1	140
295	Morphology, structure and electrochemical properties of single phase electrospun vanadium pentoxide nanofibers for lithium ion batteries. *Journal of Power Sources*, **2011**, 196, 6465-6472	8.9	140
294	Large-scale synthesis of highly uniform Fe 1 S nanostructures as a high-rate anode for sodium ion batteries. *Nano Energy*, **2017**, 37, 81-89	17.1	137
293	Constructing high energy density non-aqueous Li-ion capacitors using monoclinic TiO2-B nanorods as insertion host. *Journal of Materials Chemistry A*, **2013**, 1, 6145	13	133
292	Apatite - An Adaptive Framework Structure. *Reviews in Mineralogy and Geochemistry*, **2005**, 57, 307-401	7.1	133
291	Cobalt sulfide nanosheet/graphene/carbon nanotube nanocomposites as flexible electrodes for hydrogen evolution. *Angewandte Chemie - International Edition*, **2014**, 53, 12594-9	16.4	131
290	Unveiling TiNb2 O7 as an insertion anode for lithium ion capacitors with high energy and power density. *ChemSusChem*, **2014**, 7, 1858-63	8.3	131
289	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	17.1	127
288	Photocatalytic degradation of bisphenol-A by nitrogen-doped TiO2 hollow sphere in a vis-LED photoreactor. *Applied Catalysis B: Environmental*, **2010**, 95, 414-422	21.8	125
287	P2 NaxCoyMn1 O2 (y = 0, 0.1) as Cathode Materials in Sodium-Ion Batteries Effects of Doping and Morphology To Enhance Cycling Stability. *Chemistry of Materials*, **2016**, 28, 2041-2051	9.6	124
286	Electrospun nanofibers: a prospective electro-active material for constructing high performance Li-ion batteries. *Chemical Communications*, **2015**, 51, 2225-34	5.8	123
285	Effect of poly(ethylene oxide) on ionic conductivity and electrochemical properties of poly(vinylidenefluoride) based polymer gel electrolytes prepared by electrospinning for lithium ion batteries. *Journal of Power Sources*, **2014**, 245, 283-291	8.9	121
284	Research progress in Na-ion capacitors. *Journal of Materials Chemistry A*, **2016**, 4, 7538-7548	13	121
283	Superior lithium storage properties of Fe2O3 nano-assembled spindles. *Nano Energy*, **2013**, 2, 890-896	17.1	117
282	Effect of aluminium doping on cathodic behaviour of LiNi0.7Co0.3O2. *Journal of Power Sources*, **2001**, 93, 156-162	8.9	116
281	Fabrication of High Energy-Density Hybrid Supercapacitors Using Electrospun V2O5 Nanofibers with a Self-Supported Carbon Nanotube Network. *ChemPlusChem*, **2012**, 77, 570-575	2.8	115

280	Exceptional performance of TiNb□□ anode in all one-dimensional architecture by electrospinning. *ACS Applied Materials & Interfaces*, **2014**, 6, 8660-6	9.5	113
279	Electrospun polyaniline nanofibers web electrodes for supercapacitors. *Journal of Applied Polymer Science*, **2013**, 129, 1660-1668	2.9	111
278	Degradation of methylene blue by three-dimensionally ordered macroporous titania. *Environmental Science & Technology*, **2007**, 41, 4405-9	10.3	111
277	Novel Preparation of N-Doped SnO Nanoparticles via Laser-Assisted Pyrolysis: Demonstration of Exceptional Lithium Storage Properties. *Advanced Materials*, **2017**, 29, 1603286	24	109
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275	Cadmium and lead ion capture with Three dimensionally ordered macroporous hydroxyapatite. *Environmental Science & Technology*, **2006**, 40, 7054-9	10.3	106
274	Ultrathin nickel oxide nanosheets for enhanced sodium and lithium storage. *Journal of Power Sources*, **2015**, 274, 755-761	8.9	104
273	Progress in Rechargeable Aqueous Zinc- and Aluminum-Ion Battery Electrodes: Challenges and Outlook. *Advanced Sustainable Systems*, **2019**, 3, 1800111	5.9	104
272	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. *Journal of Power Sources*, **2012**, 202, 299-307	8.9	103
271	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	13	101
270	Nanostructured spinel LiNi0.5Mn1.5O4 as new insertion anode for advanced Li-ion capacitors with high power capability. *Nano Energy*, **2015**, 12, 69-75	17.1	98
269	Best Practices for Mitigating Irreversible Capacity Loss of Negative Electrodes in Li-Ion Batteries. *Advanced Energy Materials*, **2017**, 7, 1602607	21.8	96
268	Controlled Growth of CuS on Electrospun Carbon Nanofibers as an Efficient Counter Electrode for Quantum Dot-Sensitized Solar Cells. *Journal of Physical Chemistry C*, **2014**, 118, 16526-16535	3.8	94
267	Architecting a Stable High-Energy Aqueous Al-Ion Battery. *Journal of the American Chemical Society*, **2020**, 142, 15295-15304	16.4	94
266	Monodispersed Ag nanoparticles loaded on the PVP-assisted synthetic Bi2O2CO3 microspheres with enhanced photocatalytic and supercapacitive performances. *Journal of Materials Chemistry A*, **2013**, 1, 7630	13	93
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263	Atomic layer deposited (ALD) SnO2 anodes with exceptional cycleability for Li-ion batteries. *Nano Energy*, **2013**, 2, 720-725	17.1	88

262	Nonaqueous lithium-ion capacitors with high energy densities using trigol-reduced graphene oxide nanosheets as cathode-active material. *ChemSusChem*, **2013**, 6, 2240-4	8.3	87
261	Effect of nano-clay on ionic conductivity and electrochemical properties of poly(vinylidene fluoride) based nanocomposite porous polymer membranes and their application as polymer electrolyte in lithium ion batteries. *European Polymer Journal*, **2013**, 49, 307-318	5.2	85
260	Hollow nanospheres constructed by CoS2 nanosheets with a nitrogen-doped-carbon coating for energy-storage and photocatalysis. *ChemSusChem*, **2014**, 7, 2212-20	8.3	84
259	Synthesis of multimodal porous ZnCo2O4 and its electrochemical properties as an anode material for lithium ion batteries. *Journal of Power Sources*, **2015**, 294, 112-119	8.9	83
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257	Controlled synthesis of BiOCl hierarchical self-assemblies with highly efficient photocatalytic properties. *Chemistry - an Asian Journal*, **2013**, 8, 258-68	4.5	81
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254	Synthesis of TiO2 hollow nanofibers by co-axial electrospinning and its superior lithium storage capability in full-cell assembly with olivine phosphate. *Nanoscale*, **2013**, 5, 5973-80	7.7	80
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252	Bio-mass derived mesoporous carbon as superior electrode in all vanadium redox flow battery with multicouple reactions. *Journal of Power Sources*, **2015**, 274, 846-850	8.9	78
251	Oligomer-salt derived 3D, heavily nitrogen doped, porous carbon for Li-ion hybrid electrochemical capacitors application. *Carbon*, **2014**, 80, 462-471	10.4	77
250	Modulation of Single Atomic Co and Fe Sites on Hollow Carbon Nanospheres as Oxygen Electrodes for Rechargeable Zn-Air Batteries.. *Small Methods*, **2021**, 5, e2000751	12.8	75
249	Size- and shape-controlled synthesis of ZnIn2S4 nanocrystals with high photocatalytic performance. *CrystEngComm*, **2013**, 15, 1922	3.3	74
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247	Layered NaxMnO□z in sodium ion batteries-influence of morphology on cycle performance. *ACS Applied Materials & Interfaces*, **2014**, 6, 8059-65	9.5	72
246	Identifying the Origin and Contribution of Surface Storage in TiO (B) Nanotube Electrode by In Situ Dynamic Valence State Monitoring. *Advanced Materials*, **2018**, 30, e1802200	24	72
245	Synthesis of □Fe2O3/carbon nanocomposites as high capacity electrodes for next generation lithium ion batteries: a review. *Journal of Materials Chemistry A*, **2016**, 4, 18223-18239	13	71

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243	High-performing mesoporous iron oxalate anodes for lithium-ion batteries. *ACS Applied Materials & Interfaces*, **2012**, 4, 7011-9	9.5	69
242	Anion Texturing Towards Dendrite-Free Zn Anode for Aqueous Rechargeable Batteries. *Angewandte Chemie - International Edition*, **2021**, 60, 7213-7219	16.4	68
241	Tuning the morphology of ZnMn2O4 lithium ion battery anodes by electrospinning and its effect on electrochemical performance. *RSC Advances*, **2013**, 3, 2812	3.7	67
240	High-performance hybrid electrochemical capacitor with binder-free Nb2O5@graphene. *RSC Advances*, **2014**, 4, 37389	3.7	66
239	High-Energy Density Asymmetric Supercapacitor Based on Electrospun Vanadium Pentoxide and Polyaniline Nanofibers in Aqueous Electrolyte. *Journal of the Electrochemical Society*, **2012**, 159, A1481-A1488	3.9	66
238	One-step synthesis of SnO2 and TiO2 hollow nanostructures with various shapes and their enhanced lithium storage properties. *Chemistry - A European Journal*, **2012**, 18, 7561-7	4.8	66
237	Effect of the Ionic Conductivity on the Performance of Polyelectrolyte-Based Supercapacitors. *Advanced Functional Materials*, **2010**, 20, 4344-4350	15.6	66
236	Improving the energy density of Li-ion capacitors using polymer-derived porous carbons as cathode. *Electrochimica Acta*, **2014**, 130, 766-770	6.7	65
235	Facile approach to prepare porous CaSnO3 nanotubes via a single spinneret electrospinning technique as anodes for lithium ion batteries. *ACS Applied Materials & Interfaces*, **2012**, 4, 6005-12	9.5	65
234	A novel strategy to construct high performance lithium-ion cells using one dimensional electrospun nanofibers, electrodes and separators. *Nanoscale*, **2013**, 5, 10636-45	7.7	65
233	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	14.7	64
232	Lignin@Nafion Membranes Forming Zn Solid-Electrolyte Interfaces Enhance the Cycle Life for Rechargeable Zinc-Ion Batteries. *ChemSusChem*, **2019**, 12, 4889-4900	8.3	64
231	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	8.9	64
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228	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	13	62
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224	SBA-15 derived carbon-supported SnO2 nanowire arrays with improved lithium storage capabilities. *Journal of Materials Chemistry*, **2011**, 21, 13860		61
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222	Emerging rechargeable aqueous aluminum ion battery: Status, challenges, and outlooks. *Nano Materials Science*, **2020**, 2, 248-263	10.2	61
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217	From waste paper basket to solid state and Li-HEC ultracapacitor electrodes: a value added journey for shredded office paper. *Small*, **2014**, 10, 4395-402	11	58
216	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	6.7	56
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210	Gas separation performance of poly(4-vinylpyridine)/polyetherimide composite hollow fibers. *Journal of Membrane Science*, **2001**, 182, 111-123	9.6	52
209	A polyoxovanadate as an advanced electrode material for supercapacitors. *ChemPhysChem*, **2014**, 15, 2162-9	3.2	51

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207	FeOOH: An Earth-Abundant High-Capacity Negative Electrode Material for Sodium-Ion Batteries. *Chemistry of Materials*, **2015**, 27, 5340-5348	9.6	49
206	Asymmetric pathways in the electrochemical conversion reaction of NiO as battery electrode with high storage capacity. *Scientific Reports*, **2014**, 4, 7133	4.9	48
205	Undesired Reactions in Aqueous Rechargeable Zinc Ion Batteries. *ACS Energy Letters*, **2021**, 6, 1773-1785	20.1	48
204	Water in Rechargeable Multivalent-Ion Batteries: An Electrochemical Pandora's Box. *ChemSusChem*, **2019**, 12, 379-396	8.3	48
203	Nanoscale ion intermixing induced activation of Fe2O3/MnO2 composites for application in lithium ion batteries. *Journal of Materials Chemistry A*, **2017**, 5, 8510-8518	13	47
202	High-Crystallinity Urchin-like VS Anode for High-Performance Lithium-Ion Storage. *ACS Applied Materials & Interfaces*, **2018**, 10, 14727-14734	9.5	47
201	Exceptional performance of a high voltage spinel LiNi0.5Mn1.5O4 cathode in all one dimensional architectures with an anatase TiO2 anode by electrospinning. *Nanoscale*, **2014**, 6, 8926-34	7.7	47
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