Vanchiappan Aravindan

List of Publications by Year in Descending Order

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63 12,050 100 237 h-index g-index citations papers 8.5 13,514 7.03 247 L-index avg, IF ext. papers ext. citations

#	Paper	IF	Citations
237	High-performance Li-ion capacitor via anion-intercalation process 2022 , 1, 20210005		
236	Next-generation Li-ion capacitor with high energy and high power by limiting alloying-intercalation process using SnO2@Graphite composite as battery type electrode. <i>Composites Part B: Engineering</i> , 2022 , 230, 109487	10	4
235	Interface charge density modulation of a lamellar-like spatially separated Ni9S8 nanosheet/Nb2O5 nanobelt heterostructure catalyst coupled with nitrogen and metal (MIICo, Fe, or Cu) atoms to accelerate acidic and alkaline hydrogen evolution reactions. <i>Chemical Engineering Journal</i> , 2022 ,	14.7	7
234	Stabilizing the high voltage LiCoPO4 cathode via Fe-doping in the gram-scale synthesis. <i>Electrochimica Acta</i> , 2022 , 140367	6.7	2
233	Fabrication of Na-Ion Full-Cells using Carbon-Coated Na V (PO) O F Cathode with Conversion Type CuO Nanoparticles from Spent Li-Ion Batteries <i>Small Methods</i> , 2022 , e2200257	12.8	2
232	Recent Advancements in LiCoPO4 Cathodes Using Electrolyte Additives. <i>Current Opinion in Electrochemistry</i> , 2021 , 100868	7.2	2
231	Metal-Ion Capacitors with Anion Intercalation Process. <i>Advanced Energy and Sustainability Research</i> , 2021 , 2, 2000069	1.6	4
230	Fabrication of 4.7 V class Bocking-chair Lype Li-ion cells with carbon-coated LiCoPO4 as cathode and graphite anode. <i>Materials Letters</i> , 2021 , 291, 129609	3.3	4
229	Interfacial Engineering in a Cathode Composite Based on Garnet-Type Solid-State Li-Ion Battery with High Voltage Cycling. <i>ChemElectroChem</i> , 2021 , 8, 570-576	4.3	4
228	Impact of carbonate-based electrolytes on the electrochemical activity of carbon-coated NaV(PO)F cathode in full-cell assembly with hard carbon anode. <i>Journal of Colloid and Interface Science</i> , 2021 , 582, 51-59	9.3	14
227	Li-ion Capacitor via Solvent-Co-Intercalation Process from Spent Li-ion Batteries. <i>Batteries and Supercaps</i> , 2021 , 4, 671-679	5.6	5
226	Building next-generation supercapacitors with battery type Ni(OH)2. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 15542-15585	13	14
225	Binary NaCl N aF and NaCl L iF Flux-Mediated Growth of Mixed-Valence (V3+/4+) NASICON-Type Na3V2(PO4)2F2.5O0.5 and Na2.4Li0.6V2(PO4)2F2.5O0.5 for Highly Reversible Na- and Li-Ion Storage. <i>ACS Applied Energy Materials</i> , 2021 , 4, 1387-1397	6.1	1
224	High energy Na-Ion capacitor employing graphitic carbon fibers from waste rubber with diglyme-based electrolyte. <i>Chemical Engineering Journal</i> , 2021 , 426, 130892	14.7	2
223	Dual-carbon Na-ion capacitors: progress and future prospects. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 9431-9450	13	5
222	Supersaturated Water-in-salthybrid electrolyte towards building high voltage Na-ion capacitors with wide temperatures operation. <i>Journal of Power Sources</i> , 2020 , 472, 228558	8.9	13
221	Achieving high-energy dual carbon Li-ion capacitors with unique low- and high-temperature performance from spent Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 4950-4959	13	33

220	Sandwich layered Li0.32Al0.68MnO2(OH)2 from spent Li-ion battery to build high-performance supercapacitor: Waste to energy storage approach. <i>Journal of Alloys and Compounds</i> , 2020 , 827, 154336	5.7	16
219	Regeneration of Polyolefin Separators from Spent Li-Ion Battery for Second Life. <i>Batteries and Supercaps</i> , 2020 , 3, 581-586	5.6	11
218	Deciphering the Structure-Property Relationship of Na-Mn-Co-Mg-O as a Novel High-Capacity Layered-Tunnel Hybrid Cathode and Its Application in Sodium-Ion Capacitors. <i>ACS Applied Materials & Amp; Interfaces</i> , 2020 , 12, 10268-10279	9.5	10
217	Exploring the usage of LiCrTiO4 as cathode towards constructing 1.4\(\mathbb{U}\) class Li-ion cells with graphite anode recovered from spent Li-Ion battery. <i>Chemical Engineering Journal</i> , 2020 , 397, 125472	14.7	19
216	Highly reversible water splitting cell building from hierarchical 3D nickel manganese oxyphosphide nanosheets. <i>Nano Energy</i> , 2020 , 69, 104432	17.1	44
215	Developments and Perspectives in 3d Transition-Metal-Based Electrocatalysts for Neutral and Near-Neutral Water Electrolysis. <i>Advanced Energy Materials</i> , 2020 , 10, 1902666	21.8	113
214	Atomic layer deposition of AlO on P2-NaMnCoO as interfacial layer for high power sodium-ion batteries. <i>Journal of Colloid and Interface Science</i> , 2020 , 564, 467-477	9.3	14
213	LiBO2-modified LiCoO2 as an efficient cathode with garnet framework Li6.75La3Zr1.75Nb0.25O12 electrolyte toward building all-solid-state lithium battery for high-temperature operation. <i>Electrochimica Acta</i> , 2020 , 359, 136955	6.7	5
212	Highly Perforated V O Cathode with Restricted Lithiation toward Building "Rocking-Chair" Type Cell with Graphite Anode Recovered from Spent Li-Ion Batteries. <i>Small</i> , 2020 , 16, e2002624	11	11
211	An Urgent Call to Spent LIB Recycling: Whys and Wherefores for Graphite Recovery. <i>Advanced Energy Materials</i> , 2020 , 10, 2002238	21.8	66
210	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
209	Highly Reversible Na-Intercalation into Graphite Recovered from Spent Li-Ion Batteries for High-Energy Na-Ion Capacitor. <i>ChemSusChem</i> , 2020 , 13, 5654-5663	8.3	12
208	Surface enriched graphene hollow spheres towards building ultra-high power sodium-ion capacitor with long durability. <i>Energy Storage Materials</i> , 2020 , 25, 702-713	19.4	24
207	Restricted lithiation into a layered V2O5 cathode towards building Focking-chairstype Li-ion batteries and beyond. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 9483-9495	13	13
206	Stibium: A Promising Electrode toward Building High-Performance Na-Ion Full-Cells. <i>CheM</i> , 2019 , 5, 3096	5£ 8 .126	5 15
205	Biomass-Derived Carbon Materials as Prospective Electrodes for High-Energy Lithium- and Sodium-Ion Capacitors. <i>Chemistry - an Asian Journal</i> , 2019 , 14, 936-951	4.5	42
204	Template-free synthesis of carbon hollow spheres and reduced graphene oxide from spent lithium-ion batteries towards efficient gas storage. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 3244-3252	13	53
203	Boosting the Energy Density of Flexible Solid-State Supercapacitors via Both Ternary NiV2Se4 and NiFe2Se4 Nanosheet Arrays. <i>Chemistry of Materials</i> , 2019 , 31, 4490-4504	9.6	87

202	All ternary metal selenide nanostructures for high energy flexible charge storage devices. <i>Nano Energy</i> , 2019 , 65, 103999	17.1	94
201	Electrochemically Generated Li V O as Insertion Host for High-Energy Li-Ion Capacitors. <i>Chemistry - an Asian Journal</i> , 2019 , 14, 4665-4672	4.5	9
200	Biomass-Derived Carbon: A Value-Added Journey Towards Constructing High-Energy Supercapacitors in an Asymmetric Fashion. <i>ChemSusChem</i> , 2019 , 12, 4353-4382	8.3	32
199	Transformation of Spent Li-Ion Battery in to High Energy Supercapacitors in Asymmetric Configuration. <i>ChemElectroChem</i> , 2019 , 6, 5283-5292	4.3	6
198	Efficient bifunctional catalytic activity of nanoscopic Pd-decorated La0.6Sr0.4CoO3- perovskite toward LiD2 battery, oxygen reduction, and oxygen evolution reactions. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 80, 686-695	6.3	5
197	Focus on Spinel Li Ti O as Insertion Type Anode for High-Performance Na-Ion Batteries. <i>Small</i> , 2019 , 15, e1904484	11	18
196	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
195	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
194	High power Na-ion capacitor with TiS2 as insertion host. <i>Scripta Materialia</i> , 2019 , 161, 54-57	5.6	14
193	Bulk metal-derived metal oxide nanoparticles on oxidized carbon surface. <i>Journal of Alloys and Compounds</i> , 2018 , 752, 198-205	5.7	1
192	Electrochemical Activity of Hematite Phase in Full-Cell Li-ion Assemblies. <i>Advanced Energy Materials</i> , 2018 , 8, 1702841	21.8	15
191	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
190	Two Dimensional TiS2 as a Promising Insertion Anode for Na-Ion Battery. ChemistrySelect, 2018, 3, 524-	5 2.8	34
189	Orderly meso-perforated spherical and apple-shaped 3D carbon microstructures for high-energy supercapacitors and high-capacity Li-ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 6422	-6434	11
188	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
187	Hierarchical Ni?Mo?S and Ni?Fe?S Nanosheets with Ultrahigh Energy Density for Flexible All Solid-State Supercapacitors. <i>Advanced Functional Materials</i> , 2018 , 28, 1803287	15.6	141
186	Recycling Strategies for Spent Li-Ion Battery Mixed Cathodes. ACS Energy Letters, 2018, 3, 2101-2103	20.1	58
185	Unusual Li-Storage Behaviour of Two-Dimensional ReS2 Single Crystals. <i>Batteries and Supercaps</i> , 2018 , 1, 69-74	5.6	3

184	Morphology controlled lithium storage in Li3VO4 anodes. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 456	5- 46 3	32
183	Burgeoning Prospects of Spent Lithium-Ion Batteries in Multifarious Applications. <i>Advanced Energy Materials</i> , 2018 , 8, 1802303	21.8	100
182	Flexible Solid-State Asymmetric Supercapacitors Based on Nitrogen-Doped Graphene Encapsulated Ternary Metal-Nitrides with Ultralong Cycle Life. <i>Advanced Functional Materials</i> , 2018 , 28, 1804663	15.6	148
181	Electrochemical Route to Alleviate Irreversible Capacity Loss from Conversion Type Fe2O3 Anodes by LiVPO4F Prelithiation. <i>ACS Applied Energy Materials</i> , 2018 ,	6.1	4
180	Exploring two dimensional Co0.33In2.67S2.29Se1.71 as alloy type negative electrode for Li-ion battery with olivine LiFePO4 cathode. <i>Materials Today Energy</i> , 2018 , 9, 19-26	7	1
179	Building Next-Generation Li-ion Capacitors with High Energy: An Approach beyond Intercalation. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 3946-3958	6.4	37
178	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
177	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
176	Nanostructured intermetallic FeSn2-carbonaceous composites as highly stable anode for Na-ion batteries. <i>Journal of Power Sources</i> , 2017 , 343, 296-302	8.9	27
175	Unveiling two-dimensional TiS2 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
174	Marine algae inspired pre-treated SnO 2 nanorods bundle as negative electrode for Li-ion capacitor and battery: An approach beyond intercalation. <i>Chemical Engineering Journal</i> , 2017 , 324, 26-34	14.7	44
173	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
172	Exploring High-Energy Li-I(r)on Batteries and Capacitors with Conversion-Type Fe3O4-rGO as the Negative Electrode. <i>ChemElectroChem</i> , 2017 , 4, 2626-2633	4.3	8
171	Fabrication of High Energy Lilbn Capacitors from Orange Peel Derived Porous Carbon. <i>ChemistrySelect</i> , 2017 , 2, 5051-5058	1.8	15
170	Exploring the influence of iron substitution in lithium rich layered oxides Li2Ru1\(\mathbb{H}\)FexO3: triggering the anionic redox reaction. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 14387-14396	13	13
169	ECo(OH) Nanosheets: A Superior Pseudocapacitive Electrode for High-Energy Supercapacitors. <i>Chemistry - an Asian Journal</i> , 2017 , 12, 2127-2133	4.5	30
168	Highly Stable Intermetallic FeSn2-Graphite Composite Anode for Sodium-Ion Batteries. <i>ChemElectroChem</i> , 2017 , 4, 1932-1936	4.3	11
167	Solvothermal synthesis of Li3VO4: 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

166	Formation of NiCo2O4 rods over Co3O4 nanosheets as efficient catalyst for LiD2 batteries and water splitting. <i>Journal of Catalysis</i> , 2017 , 349, 175-182	7.3	50
165	Cu-doped P2-Na0.5Ni0.33Mn0.67O2 encapsulated with MgO as a novel high voltage cathode with enhanced Na-storage properties. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 8408-8415	13	82
164	Structural, Thermal, and Electrochemical Studies of Novel Li2CoxMn1⊠(SO4)2 Bimetallic Sulfates. Journal of Physical Chemistry C, 2017 , 121, 24971-24978	3.8	3
163	High energy Li-ion capacitors using two-dimensional TiSe0.6S1.4 as insertion host. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 19819-19825	13	23
162	Tailored perovskite Li0.33La0.56TiO3 via an adipic acid-assisted solution process: A promising solid electrolyte for lithium batteries. <i>Journal of Alloys and Compounds</i> , 2017 , 729, 338-343	5.7	11
161	Ex situ XAS investigation of effect of binders on electrochemical performance of Li2Fe(SO4)2 cathode. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 19963-19971	13	4
160	Exceptional catalytic activity of hollow structured La0.6Sr0.4CoO3perovskite spheres in aqueous media and aprotic LiD2 batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 18029-18037	13	23
159	Practical Li-Ion Battery Assembly with One-Dimensional Active Materials. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 4031-4037	6.4	15
158	A chemically bonded NaTi2(PO4)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
157	Rusted iron wire waste into high performance anode (Fe2O3) for Li-ion batteries: an efficient waste management approach. <i>Green Chemistry</i> , 2016 , 18, 1395-1404	10	32
156	Tailoring three dimensional MnO2/RuO2 hybrid nanostructure as prospective bifunctional catalyst for LiD2 batteries. <i>Electrochimica Acta</i> , 2016 , 212, 701-709	6.7	14
155	High energy Li-ion capacitors with conversion type Mn3O4 particulates anchored to few layer graphene as the negative electrode. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 15134-15139	13	34
154	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
153	LiVPO4F: A New Cathode for High-Energy Lithium Ion Capacitors. <i>ChemistrySelect</i> , 2016 , 1, 3316-3322	1.8	8
152	Red Mud and Li-Ion Batteries: A Magnetic Connection. <i>ChemSusChem</i> , 2016 , 9, 2193-200	8.3	10
151	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
150	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, 5578-55	5 B 1	52
149	High energy asymmetric supercapacitor with 1D@2D structured NiCo2O4@Co3O4 and jackfruit derived high surface area porous carbon. <i>Journal of Power Sources</i> , 2016 , 306, 248-257	8.9	122

(2015-2016)

148	Tube-like carbon for Li-ion capacitors derived from the environmentally undesirable plant: Prosopis juliflora. <i>Carbon</i> , 2016 , 98, 58-66	10.4	41
147	Biomass-Derived Electrode for Next Generation Lithium-Ion Capacitors. <i>ChemSusChem</i> , 2016 , 9, 849-54	8.3	69
146	Exploring Anatase TiO2 Nanofibers as New Cathode for Constructing 1.6 V Class R ocking-Chair Type Li-Ion Cells. <i>Particle and Particle Systems Characterization</i> , 2016 , 33, 306-310	3.1	11
145	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
144	(0 0 1) faceted mesoporous anatase TiO2 microcubes as superior insertion anode in practical Li-ion configuration with LiMn2O4. <i>Energy Storage Materials</i> , 2016 , 3, 106-112	19.4	13
143	Graphene based nanocomposites for alloy (SnO2), and conversion (Fe3O4) type efficient anodes for Li-ion battery applications. <i>Composites Science and Technology</i> , 2016 , 130, 88-95	8.6	12
142	Confined ZrO2 encapsulation over high capacity integrated 0.5Li[Ni0.5Mn1.5]O4[0.5[Li2MnO3[Li(Mn0.5Ni0.5)O2] cathode with enhanced electrochemical performance. <i>Electrochimica Acta</i> , 2016 , 194, 454-460	6.7	10
141	Research progress in Na-ion capacitors. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 7538-7548	13	121
140	Pre-lithiated LixMn2O4: A new approach to mitigate the irreversible capacity loss in negative electrodes for Li-ion battery. <i>Electrochimica Acta</i> , 2016 , 208, 225-230	6.7	25
139	Synthesis of SnS2 single crystals and its Li-storage performance with LiMn2O4 cathode. <i>Applied Materials Today</i> , 2016 , 5, 68-72	6.6	17
138	TiO2-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
137	Recent Advancements in All-Vanadium Redox Flow Batteries. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1500309	4.6	253
136	Electrochemical performance of hematite nanoparticles derived from spherical maghemite and elongated goethite particles. <i>Journal of Power Sources</i> , 2015 , 276, 291-298	8.9	24
135	TiO2 polymorphs in Eocking-chairLi-ion batteries. <i>Materials Today</i> , 2015 , 18, 345-351	21.8	109
134	Two-Dimensional Mesoporous Cobalt Sulfide Nanosheets as a Superior Anode for a Li-Ion Battery and a Bifunctional Electrocatalyst for the LiD2 System. <i>Chemistry of Materials</i> , 2015 , 27, 5726-5735	9.6	113
133	Research Progress on Negative Electrodes for Practical Li-Ion Batteries: Beyond Carbonaceous Anodes. <i>Advanced Energy Materials</i> , 2015 , 5, 1402225	21.8	361
132	Ultralong Durability of Porous ⊞eO Nanofibers in Practical Li-Ion Configuration with LiMnO Cathode. <i>Advanced Science</i> , 2015 , 2, 1500050	13.6	29
131	Excellent performance of Fe3O4-perforated graphene composite as promising anode in practical Li-ion configuration with LiMn2O4. <i>Energy Storage Materials</i> , 2015 , 1, 152-157	19.4	20

130	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
129	Unveiling the Fabrication of R ocking-Chair T ype 3.2 and 1.2 V Class Cells Using Spinel LiNi0.5Mn1.5O4 as Cathode with Li4Ti5O12. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 24332-24336	3.8	10
128	Fabrication of New 2.4 V Lithium-Ion Cell with Carbon-Coated LiTi2(PO4)3 as the Cathode. <i>ChemElectroChem</i> , 2015 , 2, 231-235	4.3	27
127	Electrospun nanofibers: a prospective electro-active material for constructing high performance Li-ion batteries. <i>Chemical Communications</i> , 2015 , 51, 2225-34	5.8	123
126	Bio-mass derived mesoporous carbon as superior electrode in all vanadium redox flow battery with multicouple reactions. <i>Journal of Power Sources</i> , 2015 , 274, 846-850	8.9	78
125	Synthesis of 2D/2D Structured Mesoporous Co3O4 Nanosheet/N-Doped Reduced Graphene Oxide Composites as a Highly Stable Negative Electrode for Lithium Battery Applications. <i>Chemistry - an Asian Journal</i> , 2015 , 10, 1776-83	4.5	44
124	High surface area porous carbon for ultracapacitor application by pyrolysis of polystyrene containing pendant carboxylic acid groups prepared via click chemistry. <i>Materials Today Communications</i> , 2015 , 4, 166-175	2.5	11
123	Nanostructured spinel LiNi0.5Mn1.5O4 as new insertion anode for advanced Li-ion capacitors with high power capability. <i>Nano Energy</i> , 2015 , 12, 69-75	17.1	98
122	Importance of nanostructure for reversible Li-insertion into octahedral sites of LiNi0.5Mn1.5O4 and its application towards aqueous Li-ion chemistry. <i>Journal of Power Sources</i> , 2015 , 280, 240-245	8.9	14
121	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. <i>Journal of Power Sources</i> , 2015 , 281, 310)-3°197	64
120	Culli2MnSiO4-polyaniline composite hybrids as high performance cathode for lithium batteries. Journal of Alloys and Compounds, 2015 , 630, 292-298	5.7	11
119	Sol-gel synthesis of aliovalent vanadium-doped LiNi(0.5)Mn(1.5)O(4) cathodes with excellent performance at high temperatures. <i>ChemSusChem</i> , 2014 , 7, 829-34	8.3	52
118	Improving the energy density of Li-ion capacitors using polymer-derived porous carbons as cathode. <i>Electrochimica Acta</i> , 2014 , 130, 766-770	6.7	65
117	Construction of high-energy-density supercapacitors from pine-cone-derived high-surface-area carbons. <i>ChemSusChem</i> , 2014 , 7, 1435-42	8.3	105
116	Carbon-coated LiTi(2)(PO(4))(3): an ideal insertion host for lithium-ion and sodium-ion batteries. <i>Chemistry - an Asian Journal</i> , 2014 , 9, 878-82	4.5	37
115	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). <i>Nanoscale</i> , 2014 , 6, 4387-94	7.7	144
114	Insertion-type electrodes for nonaqueous Li-ion capacitors. <i>Chemical Reviews</i> , 2014 , 114, 11619-35	68.1	533
113	Exceptional performance of a high voltage spinel LiNi0.5Mn1.5O4 cathode in all one dimensional architectures with an anatase TiO2 anode by electrospinning. <i>Nanoscale</i> , 2014 , 6, 8926-34	7.7	47

(2013-2014)

112	Electrospun TiO2INanofibers as Insertion Anode for Li-Ion Battery Applications. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 16776-16781	3.8	26
111	Indanthrone derived disordered graphitic carbon as promising insertion anode for sodium ion battery with long cycle life. <i>Electrochimica Acta</i> , 2014 , 146, 218-223	6.7	19
110	Oligomer-salt derived 3D, heavily nitrogen doped, porous carbon for Li-ion hybrid electrochemical capacitors application. <i>Carbon</i> , 2014 , 80, 462-471	10.4	77
109	From waste paper basket to solid state and Li-HEC ultracapacitor electrodes: a value added journey for shredded office paper. <i>Small</i> , 2014 , 10, 4395-402	11	58
108	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	35.4	304
107	Exceptional performance of TiNbDIanode in all one-dimensional architecture by electrospinning. <i>ACS Applied Materials & Distributed & </i>	9.5	113
106	Unveiling TiNb2 O7 as an insertion anode for lithium ion capacitors with high energy and power density. <i>ChemSusChem</i> , 2014 , 7, 1858-63	8.3	131
105	Carbon-Coated Li3Nd3W2O12: A High Power and Low-Voltage Insertion Anode with Exceptional Cycleability for Li-Ion Batteries. <i>Advanced Energy Materials</i> , 2014 , 4, 1301715	21.8	30
104	Enhanced elevated temperature performance of LiFePO4 modified spinel LiNi0.5Mn1.5O4 cathode. Journal of Alloys and Compounds, 2014 , 612, 51-55	5.7	15
103	Understanding the exceptional elevated temperature performance of high voltage LiNi0.5Mn1.5O4 cathodes by LiFePO4 modification. <i>Electrochimica Acta</i> , 2014 , 137, 404-410	6.7	8
102	Self-Assembled Ultrathin Anatase TiO2 Nanosheets with Reactive (001) Facets for Highly Enhanced Reversible Li Storage. <i>ChemElectroChem</i> , 2014 , 1, 539-543	4.3	21
101	Fluorine-doped Fe(2)O(3) as high energy density electroactive material for hybrid supercapacitor applications. <i>Chemistry - an Asian Journal</i> , 2014 , 9, 852-7	4.5	85
100	Does carbon coating really improves the electrochemical performance of electrospun SnO2 anodes?. <i>Electrochimica Acta</i> , 2014 , 121, 109-115	6.7	38
99	Carbon coated LiTi2(PO4)3 as new insertion anode for aqueous Na-ion batteries. <i>Journal of Alloys and Compounds</i> , 2014 , 603, 48-51	5.7	21
98	Influence of dilution effect on the electrochemical performance of integrated 0.5Li(Mn1.5Ni0.5)O4. 0.5(Li2MnO3[li(Mn0.5Ni0.5)O2) cathodes. <i>Ceramics International</i> , 2014 , 40, 13033-13039	5.1	5
97	Synthesis and optimization of NASICON-type Li3V2(PO4)3 by adipic acid-mediated solid-state approach. <i>Journal of Applied Electrochemistry</i> , 2013 , 43, 583-593	2.6	7
96	Nonaqueous lithium-ion capacitors with high energy densities using trigol-reduced graphene oxide nanosheets as cathode-active material. <i>ChemSusChem</i> , 2013 , 6, 2240-4	8.3	87
95	Experimental investigations of SiO2 based ferrite magnetic tunnel junction. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2013 , 178, 937-941	3.1	3

94	Superior charge-transfer kinetics of NASICON-type Li3V2(PO4)3 cathodes by multivalent Al3+ and ClBubstitutions. <i>Electrochimica Acta</i> , 2013 , 97, 210-215	6.7	28
93	Mesoscopic magnetic iron oxide spheres for high performance Li-ion battery anode: a new pulsed laser induced reactive micro-bubble synthesis process. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 13932	13	16
92	Carbon Coated NASICON Type Li3V2-xMx(PO4)3(M=Mn, Fe and Al) Materials with Enhanced Cyclability for Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2013 , 160, A87-A92	3.9	36
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90	LiMnPO4 IA next generation cathode material for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 3518	13	342
89	Superior lithium storage properties of Fe2O3 nano-assembled spindles. <i>Nano Energy</i> , 2013 , 2, 890-896	17.1	117
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86	High-rate and elevated temperature performance of electrospun V2O5 nanofibers carbon-coated by plasma enhanced chemical vapour deposition. <i>Nano Energy</i> , 2013 , 2, 57-64	17.1	46
85	Extraordinary long-term cycleability of TiO2-B nanorods as anodes in full-cell assembly with electrospun PVdF-HFP membranes. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 308-316	13	47
84	Constructing high energy density non-aqueous Li-ion capacitors using monoclinic TiO2-B nanorods as insertion host. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 6145	13	133
83	Synthesis of TiO2 hollow nanofibers by co-axial electrospinning and its superior lithium storage capability in full-cell assembly with olivine phosphate. <i>Nanoscale</i> , 2013 , 5, 5973-80	7.7	80
82	Atomic layer deposited (ALD) SnO2 anodes with exceptional cycleability for Li-ion batteries. <i>Nano Energy</i> , 2013 , 2, 720-725	17.1	88
81	Synthesis of porous LiMn2O4 hollow nanofibers by electrospinning with extraordinary lithium storage properties. <i>Chemical Communications</i> , 2013 , 49, 6677-9	5.8	83
80	Microwave assisted green synthesis of MgOffarbon nanotube composites as electrode material for high power and energy density supercapacitors. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 4105	13	43
79	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	17.1	217
78	Non-aqueous energy storage devices using graphene nanosheets synthesized by green route. <i>AIP Advances</i> , 2013 , 3, 042112	1.5	14
77	A novel strategy to construct high performance lithium-ion cells using one dimensional electrospun nanofibers, electrodes and separators. <i>Nanoscale</i> , 2013 , 5, 10636-45	7.7	65

76	Synthesis and enhanced lithium storage properties of electrospun V2O5 nanofibers in full-cell assembly with a spinel Li4Ti5O12 anode. <i>ACS Applied Materials & Distriction of the English Action</i> (1988) and 1989 are spinel Li4Ti5O12 anode. <i>ACS Applied Materials & Distriction</i> (1989) and 1989 are spinel Li4Ti5O12 anode. <i>ACS Applied Materials & Distriction</i> (1989) are spinel Li4Ti5O12 anode. <i>ACS Applied Materials & Distriction</i> (1989) are spinel Li4Ti5O12 anode. <i>ACS Applied Materials & Distriction</i> (1989) are spinel Li4Ti5O12 anode. <i>ACS Applied Materials & Distriction</i> (1989) are spinel Li4Ti5O12 anode. <i>ACS Applied Materials & Distriction</i> (1989) are spinel Li4Ti5O12 anode. <i>ACS Applied Materials & Distriction</i> (1989) are spinel Li4Ti5O12 anode. <i>ACS Applied Materials & Distriction</i> (1989) are spinel Li4Ti5O12 anode. <i>ACS Applied Materials & Distriction</i> (1989) are spinel Li4Ti5O12 anode. <i>ACS Applied Materials & Distriction</i> (1989) are spinel Li4Ti5O12 anode. <i>ACS Applied Materials & Distriction</i> (1989) are spinel Li4Ti5O12 anode. <i>ACS Applied Materials & Distriction</i> (1989) are spinel Li4Ti5O12 anode. <i>ACS Applied Materials & Distriction</i> (1989) are spinel Li4Ti5O12 anode. <i>ACS Applied Materials & Distriction</i> (1989) are spinel Li4Ti5O12 anode. <i>ACS Applied Materials & Distriction</i> (1989) are spinel Li4Ti5O12 anode. <i>ACS Applied Materials & Distriction</i> (1989) are spinel Li4Ti5O12 anode. <i>ACS Applied Materials & Distriction</i> (1989) are spinel Li4Ti5O12 and action (1989) are spinel Li4Ti5O12 and action (1989) are spinel Li4Ti5O12 and action (1989) are spinel Li4Ti5O12 anode. <i>ACS Applied Materials & Distriction</i> (1989) are spinel Li4Ti5O12 and action (1989) are sp	9.5	59
75	Activated carbons derived from coconut shells as high energy density cathode material for Li-ion capacitors. <i>Scientific Reports</i> , 2013 , 3, 3002	4.9	195
74	Influence of synthesis technique on the structural and electrochemical properties of Bobalt-free layered type Li1+x(Mn0.4Ni0.4Fe0.2)1 MO2 (0. <i>Electrochimica Acta</i> , 2013 , 108, 749-756	6.7	18
73	Unveiling organicThorganic hybrids as a cathode material for high performance lithium-ion capacitors. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 707-714	13	65
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71	Palladium- and gold-nanoparticle-modified porous carbon as a high-power anode for lithium-ion batteries. <i>ChemPhysChem</i> , 2013 , 14, 3887-90	3.2	2
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69	Electrochemical performance of cobalt free, Li1.2(Mn0.32Ni0.32Fe0.16)O2 cathodes for lithium batteries. <i>Electrochimica Acta</i> , 2012 , 68, 246-253	6.7	71
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40	Influence of carbon towards improved lithium storage properties of Li2MnSiO4 cathodes. <i>Journal of Materials Chemistry</i> , 2011 , 21, 2470		112
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20	Polyvinylidenefluoride (PVdF) based novel polymer electrolytes complexed with Mg(ClO4)2. <i>EPJ Applied Physics</i> , 2009 , 45, 11101	1.1	3
19	Nanoparticulate AlO(OH)n filled polyvinylidenefluoride-co-hexafluoropropylene based microporous membranes for lithium ion batteries. <i>Journal of Renewable and Sustainable Energy</i> , 2009 , 1, 023108	2.5	13
18	Improved Cycle Performance of Sulfur-Doped LiFePO4Material at High Temperatures. <i>Bulletin of the Korean Chemical Society</i> , 2009 , 30, 2223-2226	1.2	19
17	Polyvinylidene fluorideBexafluoropropylene (PVdFBFP)-based composite polymer electrolyte containing LiPF3(CF3CF2)3. <i>Journal of Non-Crystalline Solids</i> , 2008 , 354, 3451-3457	3.9	39
16	Lithium difluoro(oxalate)borate-based novel nanocomposite polymer electrolytes for lithium ion batteries. <i>Polymer International</i> , 2008 , 57, 932-938	3.3	22
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14	Effects of TiO2and ZrO2nanofillers in LiBOB based PVdF/PVC composite polymer electrolytes (CPE). <i>Journal Physics D: Applied Physics</i> , 2007 , 40, 6754-6759	3	18
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7	Solvent Co-intercalation: An Emerging Mechanism in Li-, Na-, and K-Ion Capacitors. <i>ACS Energy Letters</i> ,4228-4244	20.1	5
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5	Graphene from Spent Lithium-Ion Batteries. <i>Batteries and Supercaps</i> ,	5.6	1

LIST OF PUBLICATIONS

4	Pencil Scripted Ultrathin Graphene Nanostructure as Binder-Free Battery-Type Electrode for Li-Ion Micro-Capacitors with Excellent Performance. <i>Energy Technology</i> ,2200205	3.5	1
3	Developments and Perspectives on Robust Nano- and Microstructured Binder-Free Electrodes for Bifunctional Water Electrolysis and Beyond. <i>Advanced Energy Materials</i> ,2200409	21.8	12
2	Choice of Binder on Conversion Type CuO Nanoparticles toward Building High Energy Li-Ion Capacitors: An Approach Beyond Intercalation. <i>Advanced Materials Technologies</i> ,2200423	6.8	1
1	Na-Ion Battery with Graphite Anode and Na 3 V 2 (PO 4) 3 Cathode via Solvent-Co-Intercalation Process. <i>Advanced Materials Technologies</i> ,2200399	6.8	3