Vanchiappan Aravindan

List of Publications by Year
in descending order

242	15,084	13827 67	23472 111
papers	citations	h-index	g-index

248	248	248	13112
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Recent advancements in LiCoPO4 cathodes using electrolyte additives. Current Opinion in Electrochemistry, 2022, 31, 100868.	2.5	11
2	Next-generation Li-ion capacitor with high energy and high power by limiting alloying-intercalation process using SnO2@Graphite composite as battery type electrode. Composites Part B: Engineering, 2022, 230, 109487.	5.9	23
3	Interface charge density modulation of a lamellar-like spatially separated Ni9S8 nanosheet/Nb2O5 nanobelt heterostructure catalyst coupled with nitrogen and metal (MÂ=ÂCo, Fe, or Cu) atoms to accelerate acidic and alkaline hydrogen evolution reactions. Chemical Engineering Journal, 2022, 431, 134073.	6.6	36
4	Recycling/Reuse of Current Collectors from Spent Lithiumâ€ion Batteries: Benefits and Issues. Advanced Sustainable Systems, 2022, 6, .	2.7	19
5	Highâ€performance Liâ€ion capacitor via anionâ€intercalation process. , 2022, 1, .		5
6	Graphene from Spent Lithiumâ€ion Batteries. Batteries and Supercaps, 2022, 5, .	2.4	10
7	Should we recycle the graphite from spent lithium-ion batteries? The untold story of graphite with the importance of recycling. Journal of Energy Chemistry, 2022, 71, 351-369.	7.1	59
8	Stabilizing the high voltage LiCoPO4 cathode via Fe-doping in the gram-scale synthesis. Electrochimica Acta, 2022, 419, 140367.	2.6	4
9	Fabrication of Naâ€ion Fullâ€Cells using Carbonâ€Coated Na₃V₂(PO₄)₂O₂F Cathode with Conversion Type CuO Nanoparticles from Spent Liâ€ion Batteries. Small Methods, 2022, 6, e2200257.	4.6	14
10	Developments and Perspectives on Robust Nanoâ€•and Microstructured Binderâ€Free Electrodes for Bifunctional Water Electrolysis and Beyond. Advanced Energy Materials, 2022, 12, .	10.2	63
11	Choice of Binder on Conversion Type CuO Nanoparticles toward Building High Energy Liâ€ion Capacitors: An Approach Beyond Intercalation. Advanced Materials Technologies, 2022, 7, .	3.0	6
12	Naâ€ion Battery with Graphite Anode and Na₃V₂(PO₄)₃ Cathode via Solventâ€Coâ€intercalation Process. Advanced Materials Technologies, 2022, 7, .	3.0	8
13	Pencil Powered Faradaic Electrode for Lithiumâ€ion Capacitors with High Energy and Wide Temperature Operation. Batteries and Supercaps, 2022, 5, .	2.4	4
14	V2O5 vs. LiFePO4: Who is performing better in the 3.4ÂV class category? A performance evaluation in â€œRocking-chairâ€•configuration with graphite anode. Journal of Industrial and Engineering Chemistry, 2022, 112, 389-397.	2.9	2
15	Ternary metal oxide filled PEO-based polymer electrolyte for solid-state lithium metal battery: The role of filler particle size. Solid State Sciences, 2022, 132, 106958.	1.5	5
16	Interfacial Engineering in a Cathode Composite Based on Garnetâ€Type Solidâ€State Liâ€ion Battery with High Voltage Cycling. ChemElectroChem, 2021, 8, 570-576.	1.7	12
17	Impact of carbonate-based electrolytes on the electrochemical activity of carbon-coated Na3V2(PO4)2F3 cathode in full-cell assembly with hard carbon anode. Journal of Colloid and Interface Science, 2021, 582, 51-59.	5.0	23
18	Liâ€ion Capacitor via Solventâ€Coâ€intercalation Process from Spent Liâ€ion Batteries. Batteries and Supercaps, 2021, 4, 671-679.	2.4	14

#	Article	IF	Citations
19	Building next-generation supercapacitors with battery type Ni(OH)₂. Journal of Materials Chemistry A, 2021, 9, 15542-15585.	5.2	74
20	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
21	Metalâ€Ion Capacitors with Anion Intercalation Process. Advanced Energy and Sustainability Research, 2021, 2, 2000069.	2.8	7
22	Fabrication of 4.7ÂV class â€œrocking-chairâ€•type Li-ion cells with carbon-coated LiCoPO4 as cathode and graphite anode. Materials Letters, 2021, 291, 129609.	1.3	9
23	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
24	High energy Na-Ion capacitor employing graphitic carbon fibers from waste rubber with diglyme-based electrolyte. Chemical Engineering Journal, 2021, 426, 130892.	6.6	11
25	Dual-carbon Na-ion capacitors: progress and future prospects. Journal of Materials Chemistry A, 2021, 9, 9431-9450.	5.2	23
26	Solvent Co-intercalation: An Emerging Mechanism in Li-, Na-, and K-Ion Capacitors. ACS Energy Letters, 2021, 6, 4228-4244.	8.8	40
27	Surface enriched graphene hollow spheres towards building ultra-high power sodium-ion capacitor with long durability. Energy Storage Materials, 2020, 25, 702-713.	9.5	39
28	Highly reversible water splitting cell building from hierarchical 3D nickel manganese oxyphosphide nanosheets. Nano Energy, 2020, 69, 104432.	8.2	74
29	Developments and Perspectives in 3d Transitionâ€Metalâ€Based Electrocatalysts for Neutral and Nearâ€Neutral Water Electrolysis. Advanced Energy Materials, 2020, 10, 1902666.	10.2	226
30	Atomic layer deposition of Al2O3 on P2-Na0.5Mn0.5Co0.5O2 as interfacial layer for high power sodium-ion batteries. Journal of Colloid and Interface Science, 2020, 564, 467-477.	5.0	25
31	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. Electrochimica Acta, 2020, 359, 136955.	2.6	16
32	Highly Perforated V₂O₅ Cathode with Restricted Lithiation toward Building â€œRockingâ€Chairâ€•Type Cell with Graphite Anode Recovered from Spent Liâ€Ion Batteries. Small, 2020, 16, e2002624.	5.2	21
33	An Urgent Call to Spent LIB Recycling: Whys and Wherefores for Graphite Recovery. Advanced Energy Materials, 2020, 10, 2002238.	10.2	167
34	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
35	Highly Reversible Naâ€Intercalation into Graphite Recovered from Spent Liâ€“Ion Batteries for Highâ€Energy Naâ€Ion Capacitor. ChemSusChem, 2020, 13, 5654-5663.	3.6	25
36	Corrigendum to â€œSurface enriched graphene hollow spheres towards building ultra-high power sodium-ion capacitor with long durabilityâ€•[Energy Storage Mater. 25 (2020) 702â€“713]. Energy Storage Materials, 2020, 27, 599.	9.5	1

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37	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
38	Achieving high-energy dual carbon Li-ion capacitors with unique low- and high-temperature performance from spent Li-ion batteries. Journal of Materials Chemistry A, 2020, 8, 4950-4959.	5.2	66
39	Sandwich layered Li0.32Al0.68MnO2(OH)2 from spent Li-ion battery to build high-performance supercapacitor: Waste to energy storage approach. Journal of Alloys and Compounds, 2020, 827, 154336.	2.8	25
40	Regeneration of Polyolefin Separators from Spent Liâ€Ion Battery for Second Life. Batteries and Supercaps, 2020, 3, 581-586.	2.4	24
41	Deciphering the Structureâ€“Property Relationship of Naâ€“Mnâ€“Coâ€“Mgâ€“O as a Novel High-Capacity Layeredâ€“Tunnel Hybrid Cathode and Its Application in Sodium-Ion Capacitors. ACS Applied Materials & Interfaces, 2020, 12, 10268-10279.	4.0	18
42	Restricted lithiation into a layered V₂O₅ cathode towards building â€œrocking-chairâ€•type Li-ion batteries and beyond. Journal of Materials Chemistry A, 2020, 8, 9483-9495.	5.2	25
43	Exploring the usage of LiCrTiO4 as cathode towards constructing 1.4ÂV class Li-ion cells with graphite anode recovered from spent Li-Ion battery. Chemical Engineering Journal, 2020, 397, 125472.	6.6	33
44	All ternary metal selenide nanostructures for high energy flexible charge storage devices. Nano Energy, 2019, 65, 103999.	8.2	152
45	Electrochemically Generated Î³â€Li x V 2 O 5 as Insertion Host for Highâ€Energy Liâ€Ion Capacitors. Chemistry - an Asian Journal, 2019, 14, 4665-4672.	1.7	12
46	Biomassâ€Derived Carbon: A Valueâ€Added Journey Towards Constructing Highâ€Energy Supercapacitors in an Asymmetric Fashion. ChemSusChem, 2019, 12, 4353-4382.	3.6	51
47	Transformation of Spent Liâ€Ion Battery in to High Energy Supercapacitors in Asymmetric Configuration. ChemElectroChem, 2019, 6, 5283-5292.	1.7	8
48	Efficient bifunctional catalytic activity of nanoscopic Pd-decorated La0.6Sr0.4CoO3- perovskite toward Liâ€“O2 battery, oxygen reduction, and oxygen evolution reactions. Journal of Industrial and Engineering Chemistry, 2019, 80, 686-695.	2.9	11
49	Focus on Spinel Li₄Ti₅O₁₂ as Insertion Type Anode for Highâ€Performance Naâ€Ion Batteries. Small, 2019, 15, e1904484.	5.2	35
50	Stibium: A Promising Electrode toward Building High-Performance Na-Ion Full-Cells. CheM, 2019, 5, 3096-3126.	5.8	29
51	Biomassâ€Derived Carbon Materials as Prospective Electrodes for Highâ€Energy Lithiumâ€and Sodiumâ€Ion Capacitors. Chemistry - an Asian Journal, 2019, 14, 936-951.	1.7	55
52	Template-free synthesis of carbon hollow spheres and reduced graphene oxide from spent lithium-ion batteries towards efficient gas storage. Journal of Materials Chemistry A, 2019, 7, 3244-3252.	5.2	83
53	Boosting the Energy Density of Flexible Solid-State Supercapacitors via Both Ternary NiV₂Se₄ and NiFe₂Se₄ Nanosheet Arrays. Chemistry of Materials, 2019, 31, 4490-4504.	3.2	138
54	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

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55	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
56	High power Na-ion capacitor with TiS2 as insertion host. Scripta Materialia, 2019, 161, 54-57.	2.6	18
57	Bulk metal-derived metal oxide nanoparticles on oxidized carbon surface. Journal of Alloys and Compounds, 2018, 752, 198-205.	2.8	1
58	Electrochemical Activity of Hematite Phase in Fullâ€Cell Liâ€ion Assemblies. Advanced Energy Materials, 2018, 8, 1702841.	10.2	16
59	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
60	Two Dimensional TiS₂ as a Promising Insertion Anode for Naâ€ion Battery. ChemistrySelect, 2018, 3, 524-528.	0.7	47
61	Orderly meso-perforated spherical and apple-shaped 3D carbon microstructures for high-energy supercapacitors and high-capacity Li-ion battery anodes. Journal of Materials Chemistry A, 2018, 6, 6422-6434.	5.2	15
62	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
63	Burgeoning Prospects of Spent Lithiumâ€ion Batteries in Multifarious Applications. Advanced Energy Materials, 2018, 8, 1802303.	10.2	186
64	Flexible Solidâ€State Asymmetric Supercapacitors Based on Nitrogenâ€Doped Graphene Encapsulated Ternary Metalâ€Nitrides with Ultralong Cycle Life. Advanced Functional Materials, 2018, 28, 1804663.	7.8	212
65	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
66	Building Next-Generation Li-ion Capacitors with High Energy: An Approach beyond Intercalation. Journal of Physical Chemistry Letters, 2018, 9, 3946-3958.	2.1	51
67	Hierarchical Niï£¿Moï£¿S and Niï£¿Feï£¿S Nanosheets with Ultrahigh Energy Density for Flexible All Solidâ€State Supercapacitors. Advanced Functional Materials, 2018, 28, 1803287.	7.8	223
68	Recycling Strategies for Spent Li-Ion Battery Mixed Cathodes. ACS Energy Letters, 2018, 3, 2101-2103.	8.8	103
69	Unusual Liâ€storage Behaviour of Twoâ€Dimensional ReS₂ Single Crystals. Batteries and Supercaps, 2018, 1, 69-74.	2.4	4
70	Morphology controlled lithium storage in Li₃VO₄ anodes. Journal of Materials Chemistry A, 2018, 6, 456-463.	5.2	46
71	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
72	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

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73	Nanostructured intermetallic FeSn2-carbonaceous composites as highly stable anode for Na-ion batteries. Journal of Power Sources, 2017, 343, 296-302.	4.0	34
74	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
75	Marine algae inspired pre-treated SnO 2 nanorods bundle as negative electrode for Li-ion capacitor and battery: An approach beyond intercalation. Chemical Engineering Journal, 2017, 324, 26-34.	6.6	53
76	Best Practices for Mitigating Irreversible Capacity Loss of Negative Electrodes in Liâ€Ion Batteries. Advanced Energy Materials, 2017, 7, 1602607.	10.2	122
77	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
78	Fabrication of High Energy Liâ€"Ion Capacitors from Orange Peel Derived Porous Carbon. ChemistrySelect, 2017, 2, 5051-5058.	0.7	17
79	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
80	Î²â€Co(OH)₂ Nanosheets: A Superior Pseudocapacitive Electrode for Highâ€Energy Supercapacitors. Chemistry - an Asian Journal, 2017, 12, 2127-2133.	1.7	40
81	Highly Stable Intermetallic FeSn₂â€Graphite Composite Anode for Sodiumâ€Ion Batteries. ChemElectroChem, 2017, 4, 1932-1936.	1.7	21
82	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
83	Formation of NiCo 2 O 4 rods over Co 3 O 4 nanosheets as efficient catalyst for Liâ€"O 2 batteries and water splitting. Journal of Catalysis, 2017, 349, 175-182.	3.1	58
84	Cu-doped P2-Na_{0.5}Ni_{0.33}Mn_{0.67}O₂ encapsulated with MgO as a novel high voltage cathode with enhanced Na-storage properties. Journal of Materials Chemistry A, 2017, 5, 8408-8415.	5.2	109
85	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
86	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
87	Tailored perovskite Li0.33La0.56TiO3 via an adipic acid-assisted solution process: A promising solid electrolyte for lithium batteries. Journal of Alloys and Compounds, 2017, 729, 338-343.	2.8	17
88	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
89	Exceptional catalytic activity of hollow structured La_{0.6}Sr_{0.4}CoO_{3â^'Î´} perovskite spheres in aqueous media and aprotic Liâ€"O₂ batteries. Journal of Materials Chemistry A, 2017, 5, 18029-18037.	5.2	33
90	Practical Li-Ion Battery Assembly with One-Dimensional Active Materials. Journal of Physical Chemistry Letters, 2017, 8, 4031-4037.	2.1	16

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91	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
92	Biomassâ€Derived Electrode for Next Generation Lithiumâ€Ion Capacitors. ChemSusChem, 2016, 9, 849-854.	3.6	82
93	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
94	3D Interconnected Porous Graphene Sheets Loaded with Cobalt Oxide Nanoparticles for Lithiumâ€Ion Battery Anodes. Energy Technology, 2016, 4, 816-822.	1.8	7
95	(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
96	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
97	Confined ZrO2 encapsulation over high capacity integrated 0.5Li[Ni0.5Mn1.5]O4Â·0.5[Li2MnO3Â·Li(Mn0.5Ni0.5)O2] cathode with enhanced electrochemical performance. Electrochimica Acta, 2016, 194, 454-460.	2.6	13
98	Research progress in Na-ion capacitors. Journal of Materials Chemistry A, 2016, 4, 7538-7548.	5.2	131
99	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
100	Synthesis of SnS2 single crystals and its Li-storage performance with LiMn2O4 cathode. Applied Materials Today, 2016, 5, 68-72.	2.3	19
101	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
102	Recent Advancements in Allâ€Vanadium Redox Flow Batteries. Advanced Materials Interfaces, 2016, 3, 1500309.	1.9	351
103	Tailoring three dimensional Î±â€“MnO2/RuO2 hybrid nanostructure as prospective bifunctional catalyst for Liâ€“O2 batteries. Electrochimica Acta, 2016, 212, 701-709.	2.6	20
104	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
105	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
106	LiVPO₄F: A New Cathode for High-Energy Lithium Ion Capacitors. ChemistrySelect, 2016, 1, 3316-3322.	0.7	11
107	Red Mud and Liâ€Ion Batteries: A Magnetic Connection. ChemSusChem, 2016, 9, 2193-2200.	3.6	15
108	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

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109	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
110	High energy asymmetric supercapacitor with 1D@2D structured NiCo2O4@Co3O4 and jackfruit derived high surface area porous carbon. Journal of Power Sources, 2016, 306, 248-257.	4.0	140
111	Tube-like carbon for Li-ion capacitors derived from the environmentally undesirable plant: Prosopis juliflora. Carbon, 2016, 98, 58-66.	5.4	51
112	Rusted iron wire waste into high performance anode (Î±-Fe₂O₃) for Li-ion batteries: an efficient waste management approach. Green Chemistry, 2016, 18, 1395-1404.	4.6	39
113	Synthesis of 2D/2D Structured Mesoporous Co₃O₄ Nanosheet/Nâ€Doped Reduced Graphene Oxide Composites as a Highly Stable Negative Electrode for Lithium Battery Applications. Chemistry - an Asian Journal, 2015, 10, 1776-1783.	1.7	50
114	High surface area porous carbon for ultracapacitor application by pyrolysis of polystyrene containing pendant carboxylic acid groups prepared via click chemistry. Materials Today Communications, 2015, 4, 166-175.	0.9	14
115	Nanostructured spinel LiNi 0.5 Mn 1.5 O 4 as new insertion anode for advanced Li-ion capacitors with high power capability. Nano Energy, 2015, 12, 69-75.	8.2	114
116	Importance of nanostructure for reversible Li-insertion into octahedral sites of LiNi0.5Mn1.5O4 and its application towards aqueous Li-ion chemistry. Journal of Power Sources, 2015, 280, 240-245.	4.0	15
117	Carbon-coated Li 3 V 2 (PO 4) 3 as insertion type electrode for lithium-ion hybrid electrochemical capacitors: An evaluation of anode and cathodic performance. Journal of Power Sources, 2015, 281, 310-317.	4.0	73
118	Cuâ€“Li2MnSiO4-polyaniline composite hybrids as high performance cathode for lithium batteries. Journal of Alloys and Compounds, 2015, 630, 292-298.	2.8	13
119	Electrochemical performance of hematite nanoparticles derived from spherical maghemite and elongated goethite particles. Journal of Power Sources, 2015, 276, 291-298.	4.0	25
120	TiO2 polymorphs in â€˜rocking-chairâ€™ Li-ion batteries. Materials Today, 2015, 18, 345-351.	8.3	143
121	Two-Dimensional Mesoporous Cobalt Sulfide Nanosheets as a Superior Anode for a Li-Ion Battery and a Bifunctional Electrocatalyst for the Liâ€“O₂ System. Chemistry of Materials, 2015, 27, 5726-5735.	3.2	133
122	Research Progress on Negative Electrodes for Practical Liâ€ion Batteries: Beyond Carbonaceous Anodes. Advanced Energy Materials, 2015, 5, 1402225.	10.2	415
123	Ultralong Durability of Porous Î±â€Fe₂O₃ Nanofibers in Practical Liâ€ion Configuration with LiMn₂O₄ Cathode. Advanced Science, 2015, 2, 1500050.	5.6	34
124	Excellent performance of Fe3O4-perforated graphene composite as promising anode in practical Li-ion configuration with LiMn2O4. Energy Storage Materials, 2015, 1, 152-157.	9.5	23
125	Macroporous carbon from human hair: A journey towards the fabrication of high energy Li-ion capacitors. Electrochimica Acta, 2015, 182, 474-481.	2.6	46
126	Unveiling the Fabrication of â€œRocking-Chairâ€•Type 3.2 and 1.2 V Class Cells Using Spinel LiNi_{0.5}Mn_{1.5}O₄ as Cathode with Li₄Ti₅O₁₂. Journal of Physical Chemistry C, 2015, 119, 24332-24336.	1.5	10

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127	Fabrication of New 2.4â€…V Lithiumâ€ion Cell with Carbonâ€Coated LiTi₂(PO₄)₃ as the Cathode. ChemElectroChem, 2015, 2, 231-235.	1.7	28
128	Electrospun nanofibers: A prospective electro-active material for constructing high performance Li-ion batteries. Chemical Communications, 2015, 51, 2225-2234.	2.2	131
129	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.	4.0	97
130	Understanding the exceptional elevated temperature performance of high voltage LiNi0.5Mn1.5O4 cathodes by LiFePO4 modification. Electrochimica Acta, 2014, 137, 404-410.	2.6	12
131	Selfâ€Assembled Ultrathin Anatase TiO₂ Nanosheets with Reactive (001) Facets for Highly Enhanced Reversible Li Storage. ChemElectroChem, 2014, 1, 539-543.	1.7	23
132	Fluorineâ€Doped Fe₂O₃ as High Energy Density Electroactive Material for Hybrid Supercapacitor Applications. Chemistry - an Asian Journal, 2014, 9, 852-857.	1.7	99
133	Does carbon coating really improves the electrochemical performance of electrospun SnO2 anodes?. Electrochimica Acta, 2014, 121, 109-115.	2.6	45
134	Carbon coated LiTi2(PO4)3 as new insertion anode for aqueous Na-ion batteries. Journal of Alloys and Compounds, 2014, 603, 48-51.	2.8	23
135	Influence of dilution effect on the electrochemical performance of integrated 0.5Li(Mn1.5Ni0.5)O4. 0.5(Li2MnO3â€“Li(Mn0.5Ni0.5)O2) cathodes. Ceramics International, 2014, 40, 13033-13039.	2.3	5
136	Solâ€“Gel Synthesis of Aliovalent Vanadiumâ€Doped LiNi_{0.5}Mn_{1.5}O₄ Cathodes with Excellent Performance at High Temperatures. ChemSusChem, 2014, 7, 829-834.	3.6	60
137	Improving the energy density of Li-ion capacitors using polymer-derived porous carbons as cathode. Electrochimica Acta, 2014, 130, 766-770.	2.6	74
138	Construction of Highâ€Energyâ€Density Supercapacitors from Pineâ€Coneâ€Derived Highâ€Surfaceâ€Area Carbons. ChemSusChem, 2014, 7, 1435-1442.	3.6	126
139	Carbonâ€Coated LiTi₂(PO₄)₃: An Ideal Insertion Host for Lithiumâ€ion and Sodiumâ€ion Batteries. Chemistry - an Asian Journal, 2014, 9, 878-882.	1.7	40
140	MOF-derived crumpled-sheet-assembled perforated carbon cuboids as highly effective cathode active materials for ultra-high energy density Li-ion hybrid electrochemical capacitors (Li-HECs). Nanoscale, 2014, 6, 4387.	2.8	159
141	Insertion-Type Electrodes for Nonaqueous Li-Ion Capacitors. Chemical Reviews, 2014, 114, 11619-11635.	23.0	632
142	Exceptional performance of a high voltage spinel LiNi_{0.5}Mn_{1.5}O₄cathode in all one dimensional architectures with an anatase TiO₂anode by electrospinning. Nanoscale, 2014, 6, 8926.	2.8	52
143	Electrospun TiO2â^Î´ Nanofibers as Insertion Anode for Li-Ion Battery Applications. Journal of Physical Chemistry C, 2014, 118, 16776-16781.	1.5	28
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