Vanchiappan Aravindan

List of Publications by Year
in descending order

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242 papers	15,084 citations	13865 67 h-index	23533 111 g-index
248 all docs	248 docs citations	248 times ranked	13112 citing authors

#	Article	IF	Citations
1	Insertion-Type Electrodes for Nonaqueous Li-Ion Capacitors. Chemical Reviews, 2014, 114, 11619-11635.	47.7	632
2	Research Progress on Negative Electrodes for Practical Liâ€Ion Batteries: Beyond Carbonaceous Anodes. Advanced Energy Materials, 2015, 5, 1402225.	19.5	415
3	LiMnPO4 â€“ A next generation cathode material for lithium-ion batteries. Journal of Materials Chemistry A, 2013, 1, 3518.	10.3	383
4	Recent Advancements in Allâ€Vanadium Redox Flow Batteries. Advanced Materials Interfaces, 2016, 3, 1500309.	3.7	351
5	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.	30.8	348
6	Lithiumâ€Ion Conducting Electrolyte Salts for Lithium Batteries. Chemistry - A European Journal, 2011, 17, 14326-14346.	3.3	341
7	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.	16.0	244
8	Carbon coated nano-LiTi2(PO4)3 electrodes for non-aqueous hybrid supercapacitors. Physical Chemistry Chemical Physics, 2012, 14, 5808.	2.8	236
9	Developments and Perspectives in 3d Transitionâ€Metalâ€Based Electrocatalysts for Neutral and Nearâ€Neutral Water Electrolysis. Advanced Energy Materials, 2020, 10, 1902666.	19.5	226
10	Hierarchical Nïï£¿Moï£¿S and Nïï£¿Feï£¿S Nanosheets with Ultrahigh Energy Density for Flexible All Solidâ€State Supercapacitors. Advanced Functional Materials, 2018, 28, 1803287.	14.9	223
11	Activated carbons derived from coconut shells as high energy density cathode material for Li-ion capacitors. Scientific Reports, 2013, 3, 3002.	3.3	222
12	Flexible Solidâ€State Asymmetric Supercapacitors Based on Nitrogenâ€Doped Graphene Encapsulated Ternary Metalâ€Nitrides with Ultralong Cycle Life. Advanced Functional Materials, 2018, 28, 1804663.	14.9	212
13	Hybrid supercapacitor with nano-TiP2O7 as intercalation electrode. Journal of Power Sources, 2011, 196, 8850-8854.	7.8	204
14	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.	3.1	202
15	Burgeoning Prospects of Spent Lithiumâ€Ion Batteries in Multifarious Applications. Advanced Energy Materials, 2018, 8, 1802303.	19.5	186
16	Electrospun TiO₂â€“Graphene Composite Nanofibers as a Highly Durable Insertion Anode for Lithium Ion Batteries. Journal of Physical Chemistry C, 2012, 116, 14780-14788.	3.1	181
17	Electrospun NiO nanofibers as high performance anode material for Li-ion batteries. Journal of Power Sources, 2013, 227, 284-290.	7.8	178
18	High power lithium-ion hybrid electrochemical capacitors using spinel LiCrTiO4 as insertion electrode. Journal of Materials Chemistry, 2012, 22, 16026.	6.7	167

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19	An Urgent Call to Spent LIB Recycling: Whys and Wherefores for Graphite Recovery. Advanced Energy Materials, 2020, 10, 2002238.	19.5	167
20	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.	5.6	159
21	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.	10.3	154
22	Morphology, structure and electrochemical properties of single phase electrospun vanadium pentoxide nanofibers for lithium ion batteries. Journal of Power Sources, 2011, 196, 6465-6472.	7.8	152
23	All ternary metal selenide nanostructures for high energy flexible charge storage devices. Nano Energy, 2019, 65, 103999.	16.0	152
24	Unveiling TiNb₂O₇ as an Insertion Anode for Lithium Ion Capacitors with High Energy and Power Density. ChemSusChem, 2014, 7, 1858-1863.	6.8	147
25	TiO2 polymorphs in â€˜rocking-chairâ€™ Li-ion batteries. Materials Today, 2015, 18, 345-351.	14.2	143
26	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.	7.8	140
27	Boosting the Energy Density of Flexible Solid-State Supercapacitors via Both Ternary NiV₂Se₄ and NiFe₂Se₄ Nanosheet Arrays. Chemistry of Materials, 2019, 31, 4490-4504.	6.7	138
28	Superior lithium storage properties of Î±-Fe2O3 nano-assembled spindles. Nano Energy, 2013, 2, 890-896.	16.0	133
29	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.	6.7	133
30	Electrospun nanofibers: A prospective electro-active material for constructing high performance Li-ion batteries. Chemical Communications, 2015, 51, 2225-2234.	4.1	131
31	Research progress in Na-ion capacitors. Journal of Materials Chemistry A, 2016, 4, 7538-7548.	10.3	131
32	Construction of Highâ€Energyâ€Density Supercapacitors from Pineâ€Coneâ€Derived Highâ€Surfaceâ€Area Carbons. ChemSusChem, 2014, 7, 1435-1442.	6.8	126
33	Fabrication of High Energyâ€Density Hybrid Supercapacitors Using Electrospun V₂O₅ Nanofibers with a Selfâ€Supported Carbon Nanotube Network. ChemPlusChem, 2012, 77, 570-575.	2.8	125
34	Exceptional Performance of TiNb₂O₇ Anode in All One-Dimensional Architecture by Electrospinning. ACS Applied Materials & Interfaces, 2014, 6, 8660-8666.	8.0	124
35	Influence of carbon towards improved lithium storage properties of Li2MnSiO4 cathodes. Journal of Materials Chemistry, 2011, 21, 2470.	6.7	122
36	Novel polymer electrolyte based on cob-web electrospun multi component polymer blend of polyacrylonitrile/poly(methyl methacrylate)/polystyrene for lithium ion batteriesâ€”Preparation and electrochemical characterization. Journal of Power Sources, 2012, 202, 299-307.	7.8	122

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37	Best Practices for Mitigating Irreversible Capacity Loss of Negative Electrodes in Liâ€Ion Batteries. Advanced Energy Materials, 2017, 7, 1602607.	19.5	122
38	A novel asymmetric hybrid supercapacitor based on Li2FeSiO4 and activated carbon electrodes. Journal of Alloys and Compounds, 2010, 504, 224-227.	5.5	119
39	Electrochemical performance of carbon-coated lithium manganese silicate for asymmetric hybrid supercapacitors. Journal of Power Sources, 2010, 195, 3761-3764.	7.8	115
40	Carbon supported, Al doped-Li3V2(PO4)3 as a high rate cathode material for lithium-ion batteries. Journal of Materials Chemistry, 2012, 22, 6556.	6.7	114
41	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.	16.0	114
42	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.	10.3	109
43	Atomic layer deposited (ALD) SnO2 anodes with exceptional cycleability for Li-ion batteries. Nano Energy, 2013, 2, 720-725.	16.0	107
44	Recycling Strategies for Spent Li-Ion Battery Mixed Cathodes. ACS Energy Letters, 2018, 3, 2101-2103.	17.4	103
45	Fluorineâ€Doped Fe₂O₃ as High Energy Density Electroactive Material for Hybrid Supercapacitor Applications. Chemistry - an Asian Journal, 2014, 9, 852-857.	3.3	99
46	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.	7.8	97
47	Adipic acid assisted solâ€“gel synthesis of Li2MnSiO4 nanoparticles with improved lithium storage properties. Journal of Materials Chemistry, 2010, 20, 7340.	6.7	96
48	Nonaqueous Lithiumâ€Ion Capacitors with High Energy Densities using Trigolâ€Reduced Graphene Oxide Nanosheets as Cathodeâ€Active Material. ChemSusChem, 2013, 6, 2240-2244.	6.8	96
49	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.	7.8	93
50	Synthesis of porous LiMn2O4 hollow nanofibers by electrospinning with extraordinary lithium storage properties. Chemical Communications, 2013, 49, 6677.	4.1	90
51	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.	12.7	90
52	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.	5.6	87
53	Oligomer-salt derived 3D, heavily nitrogen doped, porous carbon for Li-ion hybrid electrochemical capacitors application. Carbon, 2014, 80, 462-471.	10.3	84
54	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.	10.3	83

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55	Electrochemical performance of cobalt free, Li1.2(Mn0.32Ni0.32Fe0.16)O2 cathodes for lithium batteries. Electrochimica Acta, 2012, 68, 246-253.	5.2	82
56	Biomassâ€Derived Electrode for Next Generation Lithiumâ€Ion Capacitors. ChemSusChem, 2016, 9, 849-854.	6.8	82
57	Improved Elevated Temperature Performance of Al-Intercalated V₂O₅ Electrospun Nanofibers for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2012, 4, 3270-3277.	8.0	80
58	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.	10.3	80
59	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.	2.9	79
60	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.	10.3	76
61	Improving the energy density of Li-ion capacitors using polymer-derived porous carbons as cathode. Electrochimica Acta, 2014, 130, 766-770.	5.2	74
62	Highly reversible water splitting cell building from hierarchical 3D nickel manganese oxyphosphide nanosheets. Nano Energy, 2020, 69, 104432.	16.0	74
63	Building next-generation supercapacitors with battery type Ni(OH)₂. Journal of Materials Chemistry A, 2021, 9, 15542-15585.	10.3	74
64	From Waste Paper Basket to Solid State and Liâ€HEC Ultracapacitor Electrodes: A Value Added Journey for Shredded Office Paper. Small, 2014, 10, 4395-4402.	10.0	73
65	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.	7.8	73
66	Preparation of LiCoPO4 and LiFePO4 coated LiCoPO4 materials with improved battery performance. Journal of Alloys and Compounds, 2010, 497, 321-324.	5.5	71
67	Unveiling organicâ€“inorganic hybrids as a cathode material for high performance lithium-ion capacitors. Journal of Materials Chemistry A, 2013, 1, 707-714.	10.3	71
68	Preparation and electrochemical characterization of LiFePO4 nanoparticles with high rate capability by a solâ€“gel method. Journal of Alloys and Compounds, 2010, 491, 668-672.	5.5	70
69	A novel strategy to construct high performance lithium-ion cells using one dimensional electrospun nanofibers, electrodes and separators. Nanoscale, 2013, 5, 10636.	5.6	68
70	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.	5.2	66
71	All carbon based high energy lithium-ion capacitors from biomass: The role of crystallinity. Journal of Power Sources, 2019, 414, 96-102.	7.8	66
72	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.	10.3	66

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73	Synthesis and Enhanced Lithium Storage Properties of Electrospun V₂O₅ Nanofibers in Full-Cell Assembly with a Spinel Li₄Ti₅O₁₂ Anode. ACS Applied Materials & Interfaces, 2013, 5, 3475-3480.	8.0	63
74	Developments and Perspectives on Robust Nanoâ€•and Microstructured Binderâ€Free Electrodes for Bifunctional Water Electrolysis and Beyond. Advanced Energy Materials, 2022, 12, .	19.5	63
75	Effect of LiBOB Additive on the Electrochemical Performance of LiCoPO₄. Journal of the Electrochemical Society, 2012, 159, A1435-A1439.	2.9	60
76	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.	6.8	60
77	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.	10.3	60
78	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.	12.9	59
79	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.	6.2	58
80	Microwave assisted green synthesis of MgOâ€“carbon nanotube composites as electrode material for high power and energy density supercapacitors. Journal of Materials Chemistry A, 2013, 1, 4105.	10.3	57
81	Size controlled synthesis of Li2MnSiO4 nanoparticles: Effect of calcination temperature and carbon content for high performance lithium batteries. Journal of Colloid and Interface Science, 2011, 355, 472-477.	9.4	55
82	Biomassâ€Derived Carbon Materials as Prospective Electrodes for Highâ€Energy Lithiumâ€•and Sodiumâ€Ion Capacitors. Chemistry - an Asian Journal, 2019, 14, 936-951.	3.3	55
83	Chemical Lithiation Studies on Combustion Synthesized V₂O₅Cathodes with Full Cell Application for Lithium Ion Batteries. Journal of the Electrochemical Society, 2013, 160, A1016-A1024.	2.9	54
84	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.	12.7	53
85	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.	5.6	52
86	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.	14.6	52
87	Tube-like carbon for Li-ion capacitors derived from the environmentally undesirable plant: Prosopis juliflora. Carbon, 2016, 98, 58-66.	10.3	51
88	Building Next-Generation Li-ion Capacitors with High Energy: An Approach beyond Intercalation. Journal of Physical Chemistry Letters, 2018, 9, 3946-3958.	4.6	51
89	Biomassâ€Derived Carbon: A Valueâ€Added Journey Towards Constructing Highâ€Energy Supercapacitors in an Asymmetric Fashion. ChemSusChem, 2019, 12, 4353-4382.	6.8	51
90	ZrO2 nanofiller incorporated PVC/PVdF blend-based composite polymer electrolytes (CPE) complexed with LiBOB. Journal of Membrane Science, 2007, 305, 146-151.	8.2	50

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91	Polyvinylidene fluorideâ€“hexafluoropropylene (PVdFâ€“HFP)-based composite polymer electrolyte containing LiPF3(CF3CF2)3. Journal of Non-Crystalline Solids, 2008, 354, 3451-3457.	3.1	50
92	High-rate and elevated temperature performance of electrospun V2O5 nanofibers carbon-coated by plasma enhanced chemical vapour deposition. Nano Energy, 2013, 2, 57-64.	16.0	50
93	Extraordinary long-term cycleability of TiO₂-B nanorods as anodes in full-cell assembly with electrospun PVdF-HFP membranes. Journal of Materials Chemistry A, 2013, 1, 308-316.	10.3	50
94	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.	3.3	50
95	LiFePO4 modified Li1.02(Co0.9Fe0.1)0.98PO4 cathodes with improved lithium storage properties. Journal of Materials Chemistry, 2011, 21, 6510.	6.7	49
96	A novel gel electrolyte with lithium difluoro(oxalato)borate salt and Sb2O3 nanoparticles for lithium ion batteries. Solid State Sciences, 2007, 9, 1069-1073.	3.2	48
97	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.	10.3	48
98	Electrochemical performance of NASICON type carbon coated LiTi2(PO4)3 with a spinel LiMn2O4 cathode. RSC Advances, 2012, 2, 7534.	3.6	47
99	Free-standing electrospun carbon nanofibresâ€”a high performance anode material for lithium-ion batteries. Journal Physics D: Applied Physics, 2012, 45, 265302.	2.8	47
100	Two Dimensional TiS₂ as a Promising Insertion Anode for Naâ€Ion Battery. ChemistrySelect, 2018, 3, 524-528.	1.5	47
101	Electrochemical Lithium Insertion Behavior of Combustion Synthesized V2O5Cathodes for Lithium-Ion Batteries. Journal of the Electrochemical Society, 2012, 159, A273-A280.	2.9	46
102	LiCrTiO₄: A Highâ€Performance Insertion Anode for Lithiumâ€Ion Batteries. ChemPhysChem, 2012, 13, 3263-3266.	2.1	46
103	Macroporous carbon from human hair: A journey towards the fabrication of high energy Li-ion capacitors. Electrochimica Acta, 2015, 182, 474-481.	5.2	46
104	Morphology controlled lithium storage in Li₃VO₄ anodes. Journal of Materials Chemistry A, 2018, 6, 456-463.	10.3	46
105	Characterization of SiO₂ and Al₂O₃ incorporated PVdFâ€HFP based composite polymer electrolytes with LiPF₃(CF₃CF₂)₃. Journal of Applied Polymer Science, 2008, 108, 1314-1322.	2.6	45
106	Does carbon coating really improves the electrochemical performance of electrospun SnO2 anodes?. Electrochimica Acta, 2014, 121, 109-115.	5.2	45
107	Synthesis and improved electrochemical properties of Li₂MnSiO₄ cathodes. Journal Physics D: Applied Physics, 2011, 44, 152001.	2.8	43
108	Ultrathin Polyimide Coating for a Spinel LiNi0.5Mn1.5O4Cathode and Its Superior Lithium Storage Properties under Elevated Temperature Conditions. Journal of the Electrochemical Society, 2013, 160, A1003-A1008.	2.9	42

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109	From Electrodes to Electrodes: Building Highâ€Performance Liâ€Ion Capacitors and Batteries from Spent Lithiumâ€Ion Battery Carbonaceous Materials. ChemElectroChem, 2019, 6, 1407-1412.	3.4	42
110	Polyvinylidenefluorideâ€“hexafluoropropylene based nanocomposite polymer electrolytes (NCPE) complexed with LiPF3(CF3CF2)3. European Polymer Journal, 2007, 43, 5121-5127.	5.4	41
111	High performance lithium-ion cells using one dimensional electrospun TiO2 nanofibers with spinel cathode. RSC Advances, 2012, 2, 7983.	3.6	41
112	Carbonâ€Coated LiTi₂(PO₄)₃: An Ideal Insertion Host for Lithiumâ€Ion and Sodiumâ€Ion Batteries. Chemistry - an Asian Journal, 2014, 9, 878-882.	3.3	40
113	Î²â€Co(OH)₂ Nanosheets: A Superior Pseudocapacitive Electrode for Highâ€Energy Supercapacitors. Chemistry - an Asian Journal, 2017, 12, 2127-2133.	3.3	40
114	Electrochemical Performance of Î±-MnO₂ Nanorods/Activated Carbon Hybrid Supercapacitor. Nanoscience and Nanotechnology Letters, 2012, 4, 724-728.	0.4	40
115	Solvent Co-intercalation: An Emerging Mechanism in Li-, Na-, and K-Ion Capacitors. ACS Energy Letters, 2021, 6, 4228-4244.	17.4	40
116	Carbon Coated NASICON Type Li₃V_{2-x}M_x(PO₄)₃(M=Mn, Fe) Tj ETQq0 0 0 rgBT /Overlo Society, 2013, 160, A87-A92.	2.9	39
117	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.	5.2	39
118	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.	10.3	39
119	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.	5.2	39
120	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.	9.0	39
121	Surface enriched graphene hollow spheres towards building ultra-high power sodium-ion capacitor with long durability. Energy Storage Materials, 2020, 25, 702-713.	18.0	39
122	Lithium fluoroalkylphosphate based novel composite polymer electrolytes (NCPE) incorporated with nanosized SiO2 filler. Materials Chemistry and Physics, 2009, 115, 251-257.	4.0	37
123	Li+ ion conduction in TiO2 filled polyvinylidenefluoride-co-hexafluoropropylene based novel nanocomposite polymer electrolyte membranes with LiDFOB. Current Applied Physics, 2009, 9, 1474-1479.	2.4	36
124	Li(Mn1/3Ni1/3Fe1/3)O2â€“Polyaniline hybrids as cathode active material with ultra-fast chargeâ€“discharge capability for lithium batteries. Journal of Power Sources, 2013, 232, 240-245.	7.8	36
125	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.	12.7	36
126	Investigations on Na+ ion conducting polyvinylidenefluoride-co-hexafluoropropylene/poly ethylmethacrylate blend polymer electrolytes. Current Applied Physics, 2009, 9, 1106-1111.	2.4	35

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127	Focus on Spinel Li₄Ti₅O₁₂ as Insertion Type Anode for Highâ€Performance Naâ€Ion Batteries. Small, 2019, 15, e1904484.	10.0	35
128	Realizing the Performance of LiCoPO4Cathodes by Fe Substitution with Off-Stoichiometry. Journal of the Electrochemical Society, 2012, 159, A1013-A1018.	2.9	34
129	Carbonâ€Coated Li₃Nd₃W₂O₁₂: A High Power and Lowâ€Voltage Insertion Anode with Exceptional Cycleability for Liâ€Ion Batteries. Advanced Energy Materials, 2014, 4, 1301715.	19.5	34
130	Ultralong Durability of Porous Î±â€Fe₂O₃ Nanofibers in Practical Liâ€Ion Configuration with LiMn₂O₄ Cathode. Advanced Science, 2015, 2, 1500050.	11.2	34
131	Nanostructured intermetallic FeSn2-carbonaceous composites as highly stable anode for Na-ion batteries. Journal of Power Sources, 2017, 343, 296-302.	7.8	34
132	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.	10.3	33
133	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.	12.7	33
134	Manipulation of adipic acid application on the electrochemical properties of LiFePO4 at high rate performance. Journal of Alloys and Compounds, 2011, 509, 1279-1284.	5.5	31
135	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.	10.3	31
136	Superior charge-transfer kinetics of NASICON-type Li3V2(PO4)3 cathodes by multivalent Al3+ and Clâ^' substitutions. Electrochimica Acta, 2013, 97, 210-215.	5.2	29
137	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.	10.3	29
138	Stibium: A Promising Electrode toward Building High-Performance Na-Ion Full-Cells. CheM, 2019, 5, 3096-3126.	11.7	29
139	LiMnBO3/C: A Potential Cathode Material for Lithium Batteries. Bulletin of the Korean Chemical Society, 2010, 31, 1506-1508.	1.9	29
140	Polyvinylidene fluorideâ€based novel polymer electrolytes for magnesiumâ€rechargeable batteries with Mg(CF₃SO₃)₂. Journal of Applied Polymer Science, 2009, 112, 3024-3029.	2.6	28
141	Electrospun TiO2â^'Î´ Nanofibers as Insertion Anode for Li-Ion Battery Applications. Journal of Physical Chemistry C, 2014, 118, 16776-16781.	3.1	28
142	Fabrication of New 2.4â€…V Lithiumâ€Ion Cell with Carbonâ€Coated LiTi₂(PO₄)₃ as the Cathode. ChemElectroChem, 2015, 2, 231-235.	3.4	28
143	A study on LiBOB-based nanocomposite gel polymer electrolytes (NCGPE) for Lithium-ion batteries. Ionics, 2007, 13, 277-280.	2.4	26
144	Lithium difluoro(oxalate)borateâ€based novel nanocomposite polymer electrolytes for lithium ion batteries. Polymer International, 2008, 57, 932-938.	3.1	26

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145	Superior Lithium Storage Properties of Carbon Coated Li2MnSiO4 Cathodes. Electrochemical and Solid-State Letters, 2011, 14, A33.	2.2	26
146	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.	7.8	26
147	Electrochemical performance of hematite nanoparticles derived from spherical maghemite and elongated goethite particles. Journal of Power Sources, 2015, 276, 291-298.	7.8	25
148	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.	9.4	25
149	Highly Reversible Naâ€Intercalation into Graphite Recovered from Spent Liâ€“Ion Batteries for Highâ€Energy Naâ€Ion Capacitor. ChemSusChem, 2020, 13, 5654-5663.	6.8	25
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