

Lai-Fa Shen

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128
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158
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ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
149	Ultrathin Mesoporous NiCo ₂ O ₄ Nanosheets Supported on Ni Foam as Advanced Electrodes for Supercapacitors. <i>Advanced Functional Materials</i> , 2012 , 22, 4592-4597	15.6	1385
148	Formation of nickel cobalt sulfide ball-in-ball hollow spheres with enhanced electrochemical pseudocapacitive properties. <i>Nature Communications</i> , 2015 , 6, 6694	17.4	941
147	Facile synthesis and self-assembly of hierarchical porous NiO nano/micro spherical superstructures for high performance supercapacitors. <i>Journal of Materials Chemistry</i> , 2009 , 19, 5772		770
146	Growth of ultrathin mesoporous Co ₃ O ₄ nanosheet arrays on Ni foam for high-performance electrochemical capacitors. <i>Energy and Environmental Science</i> , 2012 , 5, 7883	35.4	725
145	Mesoporous NiCo ₂ O ₄ Nanowire Arrays Grown on Carbon Textiles as Binder-Free Flexible Electrodes for Energy Storage. <i>Advanced Functional Materials</i> , 2014 , 24, 2630-2637	15.6	663
144	NiCo ₂ S ₄ Nanosheets Grown on Nitrogen-Doped Carbon Foams as an Advanced Electrode for Supercapacitors. <i>Advanced Energy Materials</i> , 2015 , 5, 1400977	21.8	633
143	Self-templated formation of uniform NiCo ₂ O ₄ hollow spheres with complex interior structures for lithium-ion batteries and supercapacitors. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 1868-72	16.4	618
142	Hydrogenated Li ₄ Ti ₅ O ₁₂ nanowire arrays for high rate lithium ion batteries. <i>Advanced Materials</i> , 2012 , 24, 6502-6	24	411
141	Challenges and Perspectives for NASICON-Type Electrode Materials for Advanced Sodium-Ion Batteries. <i>Advanced Materials</i> , 2017 , 29, 1700431	24	346
140	Flexible Hybrid Paper Made of Monolayer Co ₃ O ₄ Microsphere Arrays on rGO/CNTs and Their Application in Electrochemical Capacitors. <i>Advanced Functional Materials</i> , 2012 , 22, 2560-2566	15.6	336
139	Li ₄ Ti ₅ O ₁₂ Nanoparticles Embedded in a Mesoporous Carbon Matrix as a Superior Anode Material for High Rate Lithium Ion Batteries. <i>Advanced Energy Materials</i> , 2012 , 2, 691-698	21.8	297
138	General Formation of MS (M = Ni, Cu, Mn) Box-in-Box Hollow Structures with Enhanced Pseudocapacitive Properties. <i>Advanced Functional Materials</i> , 2014 , 24, 7440-7446	15.6	260
137	Hierarchically structured carbon-based composites: Design, synthesis and their application in electrochemical capacitors. <i>Nanoscale</i> , 2011 , 3, 529-45	7.7	260
136	Dual-Functionalized Double Carbon Shells Coated Silicon Nanoparticles for High Performance Lithium-Ion Batteries. <i>Advanced Materials</i> , 2017 , 29, 1605650	24	257
135	Facile synthesis of hierarchically porous Li ₄ Ti ₅ O ₁₂ microspheres for high rate lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2010 , 20, 6998		249
134	Sulfur embedded in metal organic framework-derived hierarchically porous carbon nanoplates for high performance lithium-sulfur battery. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 4490	13	245
133	High performance lithium-sulfur batteries: advances and challenges. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 12662-12676	13	235

132	A flexible graphene/multiwalled carbon nanotube film as a high performance electrode material for supercapacitors. <i>Electrochimica Acta</i> , 2011 , 56, 5115-5121	6.7	230
131	Flexible Sodium-Ion Pseudocapacitors Based on 3D Na ₂ Ti ₃ O ₇ Nanosheet Arrays/Carbon Textiles Anodes. <i>Advanced Functional Materials</i> , 2016 , 26, 3703-3710	15.6	224
130	Facile template-free synthesis of ultralayered mesoporous nickel cobaltite nanowires towards high-performance electrochemical capacitors. <i>Journal of Materials Chemistry</i> , 2012 , 22, 16084		213
129	Peapod-like Li VO /N-Doped Carbon Nanowires with Pseudocapacitive Properties as Advanced Materials for High-Energy Lithium-Ion Capacitors. <i>Advanced Materials</i> , 2017 , 29, 1700142	24	207
128	Encapsulating sulfur into hierarchically ordered porous carbon as a high-performance cathode for lithium-sulfur batteries. <i>Chemistry - A European Journal</i> , 2013 , 19, 1013-9	4.8	201
127	Self-Assembled Nb ₂ O ₅ Nanosheets for High Energy High Power Sodium Ion Capacitors. <i>Chemistry of Materials</i> , 2016 , 28, 5753-5760	9.6	201
126	Prussian blue analogues: a new class of anode materials for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 5852-5857	13	197
125	Design and Tailoring of a Three-Dimensional TiO ₂ @Graphene@Carbon Nanotube Nanocomposite for Fast Lithium Storage. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 3096-3101	6.4	193
124	General strategy for designing core-shell nanostructured materials for high-power lithium ion batteries. <i>Nano Letters</i> , 2012 , 12, 5673-8	11.5	183
123	In situ synthesis of high-loading Li ₄ Ti ₅ O ₁₂ -graphene hybrid nanostructures for high rate lithium ion batteries. <i>Nanoscale</i> , 2011 , 3, 572-4	7.7	177
122	Enhanced high-current capacitive behavior of graphene/CoAl-layered double hydroxide composites as electrode material for supercapacitors. <i>Journal of Power Sources</i> , 2012 , 199, 395-401	8.9	175
121	Chemically tailoring the nanostructure of graphene nanosheets to confine sulfur for high-performance lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 1096-1101	13	170
120	In situ growth of Li ₄ Ti ₅ O ₁₂ on multi-walled carbon nanotubes: novel coaxial nanocables for high rate lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2011 , 21, 761-767		170
119	Polypyrrole/carbon nanotube nanocomposite enhanced the electrochemical capacitance of flexible graphene film for supercapacitors. <i>Journal of Power Sources</i> , 2012 , 197, 319-324	8.9	169
118	Facile synthesis of N-doped carbon-coated Li ₄ Ti ₅ O ₁₂ microspheres using polydopamine as a carbon source for high rate lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 7270	13	158
117	Pseudocapacitive behaviours of Na ₂ Ti ₃ O ₇ @CNT coaxial nanocables for high-performance sodium-ion capacitors. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 21277-21283	13	150
116	Fabrication and electrochemical capacitance of hierarchical graphene/polyaniline/carbon nanotube ternary composite film. <i>Electrochimica Acta</i> , 2011 , 56, 9224-9232	6.7	150
115	Porous nitrogen-doped carbon nanotubes derived from tubular polypyrrole for energy-storage applications. <i>Chemistry - A European Journal</i> , 2013 , 19, 12306-12	4.8	149

114	Hierarchically porous carbon encapsulating sulfur as a superior cathode material for high performance lithium-sulfur batteries. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 194-9	9.5	140
113	High rate capability and superior cycle stability of a flower-like Sb ₂ S ₃ anode for high-capacity sodium ion batteries. <i>Nanoscale</i> , 2015 , 7, 3309-15	7.7	137
112	ZnO/TiO ₂ nanocable structured photoelectrodes for CdS/CdSe quantum dot co-sensitized solar cells. <i>Nanoscale</i> , 2013 , 5, 936-43	7.7	115
111	TiNb ₂ O ₇ nanoparticles assembled into hierarchical microspheres as high-rate capability and long-cycle-life anode materials for lithium ion batteries. <i>Nanoscale</i> , 2015 , 7, 619-24	7.7	112
110	Encapsulating sulfur into mesoporous TiO ₂ host as a high performance cathode for lithium-sulfur battery. <i>Electrochimica Acta</i> , 2013 , 107, 78-84	6.7	112
109	Lysine-assisted hydrothermal synthesis of urchin-like ordered arrays of mesoporous Co(OH) ₂ nanowires and their application in electrochemical capacitors. <i>Journal of Materials Chemistry</i> , 2010 , 20, 10809		105
108	Zinc cobalt sulfide nanosheets grown on nitrogen-doped graphene/carbon nanotube film as a high-performance electrode for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 11256-11263 ¹³		103
107	Advanced Energy-Storage Architectures Composed of Spinel Lithium Metal Oxide Nanocrystal on Carbon Textiles. <i>Advanced Energy Materials</i> , 2013 , 3, 1484-1489	21.8	101
106	Rational design of void-involved Si@TiO ₂ nanospheres as high-performance anode material for lithium-ion batteries. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 6497-503	9.5	100
105	Carbon-Coated Li VO Spheres as Constituents of an Advanced Anode Material for High-Rate Long-Life Lithium-Ion Batteries. <i>Advanced Materials</i> , 2017 , 29, 1701571	24	93
104	Electrochemically induced transformation of NiS nanoparticles into Ni(OH) ₂ in KOH aqueous solution toward electrochemical capacitors. <i>Electrochimica Acta</i> , 2011 , 56, 7454-7459	6.7	93
103	Facile interfacial synthesis of flower-like hierarchical α-MnO ₂ sub-microspherical superstructures constructed by two-dimension mesoporous nanosheets and their application in electrochemical capacitors. <i>Journal of Materials Chemistry</i> , 2011 , 21, 16035		90
102	Graphene/carbon nanotube composite anode for high performance lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 1498-1503	13	88
101	Nitrogen-doped carbon coated Li ₄ Ti ₅ O ₁₂ nanocomposite: Superior anode materials for rechargeable lithium ion batteries. <i>Journal of Power Sources</i> , 2013 , 221, 122-127	8.9	88
100	Cross-Linking Hollow Carbon Sheet Encapsulated CuP Nanocomposites for High Energy Density Sodium-Ion Batteries. <i>ACS Nano</i> , 2018 , 12, 7018-7027	16.7	86
99	Three-dimensionally ordered porous TiNb ₂ O ₇ nanotubes: a superior anode material for next generation hybrid supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 16785-16790	13	83
98	Preparation and electrochemical capacitance of hierarchical graphene/polypyrrole/carbon nanotube ternary composites. <i>Electrochimica Acta</i> , 2012 , 69, 160-166	6.7	83
97	Preparation of ZnCo ₂ O ₄ nanoflowers on a 3D carbon nanotube/nitrogen-doped graphene film and its electrochemical capacitance. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 21891-21898	13	82

96	Ultrathin Ti Nb O Nanosheets with Pseudocapacitive Properties as Superior Anode for Sodium-Ion Batteries. <i>Advanced Materials</i> , 2018 , 30, e1804378	24	81
95	Large-scale Co ₃ O ₄ nanoparticles growing on nickel sheets via a one-step strategy and their ultra-highly reversible redox reaction toward supercapacitors. <i>Journal of Materials Chemistry</i> , 2011 , 21, 18183		80
94	Flexible metal-organic frameworks as superior cathodes for rechargeable sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 16590-16597	13	79
93	Mesoporous NaTi ₂ (PO ₄) ₃ /CMK-3 nanohybrid as anode for long-life Na-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 20659-20666	13	76
92	Three-dimensional coherent titania-mesoporous carbon nanocomposite and its lithium-ion storage properties. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 2985-92	9.5	76
91	Novel template-free solvothermal synthesis of mesoporous Li ₄ Ti ₅ O ₁₂ -C microspheres for high power lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2011 , 21, 14414		75
90	Ultralong SrLi ₂ Ti ₆ O ₁₄ nanowires composed of single-crystalline nanoparticles: Promising candidates for high-power lithium ions batteries. <i>Nano Energy</i> , 2015 , 13, 18-27	17.1	73
89	Urchin-like Co ₃ O ₄ microspherical hierarchical superstructures constructed by one-dimension nanowires toward electrochemical capacitors. <i>RSC Advances</i> , 2011 , 1, 1521	3.7	72
88	Carbon coated Li ₄ Ti ₅ O ₁₂ nanorods as superior anode material for high rate lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2013 , 572, 37-42	5.7	71
87	Crumpled Nitrogen-Doped Graphene for Supercapacitors with High Gravimetric and Volumetric Performances. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 22284-91	9.5	67
86	A modified molten-salt method to prepare graphene electrode with high capacitance and low self-discharge rate. <i>Carbon</i> , 2016 , 102, 255-261	10.4	66
85	N-doped carbon foam based three-dimensional electrode architectures and asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 2853-2860	13	66
84	Fabrication of porous carbon spheres for high-performance electrochemical capacitors. <i>RSC Advances</i> , 2014 , 4, 7538	3.7	65
83	From biomolecule to Na ₃ V ₂ (PO ₄) ₃ /nitrogen-decorated carbon hybrids: highly reversible cathodes for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 18606-18612	13	63
82	Self-Templated Formation of Uniform NiCo ₂ O ₄ Hollow Spheres with Complex Interior Structures for Lithium-Ion Batteries and Supercapacitors. <i>Angewandte Chemie</i> , 2015 , 127, 1888-1892	3.6	61
81	Lamellar-structured biomass-derived phosphorus- and nitrogen-co-doped porous carbon for high-performance supercapacitors. <i>New Journal of Chemistry</i> , 2015 , 39, 9497-9503	3.6	58
80	Hierarchical Metal Sulfide/Carbon Spheres: A Generalized Synthesis and High Sodium-Storage Performance. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 7238-7243	16.4	57
79	One-Dimensional Vanadium Nitride Nanofibers Fabricated by Electrospinning for Supercapacitors. <i>Electrochimica Acta</i> , 2015 , 173, 680-686	6.7	55

78	Flower-like LiMnPO ₄ hierarchical microstructures assembled from single-crystalline nanosheets for lithium-ion batteries. <i>CrystEngComm</i> , 2012 , 14, 4284	3-3	55
77	PEDOT coated Li ₄ Ti ₅ O ₁₂ nanorods: Soft chemistry approach synthesis and their lithium storage properties. <i>Electrochimica Acta</i> , 2014 , 129, 283-289	6-7	54
76	Template-free synthesis of ordered mesoporous NiO/poly(sodium-4-styrene sulfonate) functionalized carbon nanotubes composite for electrochemical capacitors. <i>Nano Research</i> , 2009 , 2, 722-732	1-9	54
75	A facile one-pot synthesis of TiO ₂ /nitrogen-doped reduced graphene oxide nanocomposite as anode materials for high-rate lithium-ion batteries. <i>Electrochimica Acta</i> , 2014 , 133, 209-216	6-7	53
74	Trivalent Ti self-doped Li ₄ Ti ₅ O ₁₂ : A high performance anode material for lithium-ion capacitors. <i>Journal of Electroanalytical Chemistry</i> , 2015 , 757, 1-7	4-1	52
73	Facile hydrothermal synthesis of single crystalline TiOF ₂ nanocubes and their phase transitions to TiO ₂ hollow nanocages as anode materials for lithium-ion battery. <i>Electrochimica Acta</i> , 2012 , 62, 408-415	6-7	52
72	A novel method to synthesize whisker-like Co(OH) ₂ and its electrochemical properties as an electrochemical capacitor electrode. <i>Electrochimica Acta</i> , 2010 , 56, 115-121	6-7	52
71	Facile growth of hexagonal NiO nanoplatelet arrays assembled by mesoporous nanosheets on Ni foam towards high-performance electrochemical capacitors. <i>Electrochimica Acta</i> , 2012 , 78, 532-538	6-7	51
70	Porous NiCo ₂ O ₄ nanotubes as a noble-metal-free effective bifunctional catalyst for rechargeable LiO ₂ batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 24309-24314	13	50
69	Homogenous incorporation of SnO ₂ nanoparticles in carbon cryogels via the thermal decomposition of stannous sulfate and their enhanced lithium-ion intercalation properties. <i>Nano Energy</i> , 2013 , 2, 769-778	17-1	49
68	Enhanced Performance of Aqueous Sodium-Ion Batteries Using Electrodes Based on the NaTi ₂ (PO ₄) ₃ /MWNTs/Na _{0.44} MnO ₂ System. <i>Energy Technology</i> , 2014 , 2, 705-712	3-5	47
67	Si nanoparticles encapsulated in elastic hollow carbon fibres for Li-ion battery anodes with high structural stability. <i>Nanoscale</i> , 2015 , 7, 7409-14	7-7	46
66	Hollow NiCo ₂ S ₄ nanotube arrays grown on carbon textile as a self-supported electrode for asymmetric supercapacitors. <i>RSC Advances</i> , 2016 , 6, 9950-9957	3-7	42
65	Self-Sacrificial Template-Directed Synthesis of Metal-Organic Framework-Derived Porous Carbon for Energy-Storage Devices. <i>ChemElectroChem</i> , 2016 , 3, 668-674	4-3	42
64	Enhanced Lithium-Storage Performance from Three-Dimensional MoS ₂ Nanosheets/Carbon Nanotube Paper. <i>ChemElectroChem</i> , 2014 , 1, 1118-1125	4-3	40
63	Fabrication of a sandwich structured electrode for high-performance lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 14280	13	37
62	Top-down synthesis of interconnected two-dimensional carbon/antimony hybrids as advanced anodes for sodium storage. <i>Energy Storage Materials</i> , 2018 , 10, 122-129	19-4	36
61	Synthesis of hydrogenated TiO ₂ /reduced-graphene oxide nanocomposites and their application in high rate lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 9150-9155	13	35

60	Mesoporous Li ₄ Ti ₅ O ₁₂ /carbon nanofibers for high-rate lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2014 , 587, 171-176	5.7	34
59	Synthesis of flexible and porous cobalt hydroxide/conductive cotton textile sheet and its application in electrochemical capacitors. <i>Electrochimica Acta</i> , 2011 , 56, 6683-6687	6.7	33
58	Electrospun Hierarchical Li ₄ Ti _{4.95} Nb _{0.05} O ₁₂ /Carbon Composite Nanofibers for High Rate Lithium Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2012 , 159, A426-A430	3.9	33
57	Alloying Reaction Confinement Enables High-Capacity and Stable Anodes for Lithium-Ion Batteries. <i>ACS Nano</i> , 2019 , 13, 9511-9519	16.7	32
56	Titanium Dioxide/Germanium Core/Shell Nanorod Arrays Grown on Carbon Textiles as Flexible Electrodes for High Density Lithium-Ion Batteries. <i>Particle and Particle Systems Characterization</i> , 2015 , 32, 364-372	3.1	31
55	Nb ₂ O ₅ nanoparticles encapsulated in ordered mesoporous carbon matrix as advanced anode materials for Li ion capacitors. <i>RSC Advances</i> , 2016 , 6, 71338-71344	3.7	30
54	Design of a Nitrogen-Doped, Carbon-Coated Li Ti O Nanocomposite with a Core-Shell Structure and Its Application for High-Rate Lithium-Ion Batteries. <i>ChemPlusChem</i> , 2014 , 79, 128-133	2.8	29
53	Glycine-assisted hydrothermal synthesis of nanostructured Co _x Ni _{1-x} Al layered triple hydroxides as electrode materials for high-performance supercapacitors. <i>Journal of Solid State Electrochemistry</i> , 2012 , 16, 1933-1940	2.6	29
52	Cross-linked NiCo ₂ O ₄ nanosheets with low crystallinity and rich oxygen vacancies for asymmetric supercapacitors. <i>Journal of Alloys and Compounds</i> , 2020 , 822, 153689	5.7	29
51	Biomolecule-assisted hydrothermal approach towards synthesis of ultra-thin nanoporous Co(OH) ₂ mesocrystal nanosheets for electrochemical capacitors. <i>CrystEngComm</i> , 2011 , 13, 6130	3.3	25
50	Interface-hydrothermal synthesis and electrochemical properties of CoS(x) nanodots/poly(sodium-4-styrene sulfonate) functionalized multi-walled carbon nanotubes nanocomposite. <i>Journal of Colloid and Interface Science</i> , 2010 , 349, 181-5	9.3	25
49	Pseudocapacitive T-Nb ₂ O ₅ /N-doped carbon nanosheets anode enable high performance lithium-ion capacitors. <i>Journal of Electroanalytical Chemistry</i> , 2019 , 842, 82-88	4.1	23
48	Rhombohedral NASICON-structured Li ₂ NaV ₂ (PO ₄) ₃ with single voltage plateau for superior lithium storage. <i>RSC Advances</i> , 2014 , 4, 8627	3.7	23
47	Synthesis of nanostructured materials by using metal-cyanide coordination polymers and their lithium storage properties. <i>Nanoscale</i> , 2013 , 5, 11087-93	7.7	23
46	Synthesis of LiNi _{0.5} Mn _{1.5} O ₄ Hollow Microspheres and Their Lithium-Storage Properties. <i>ChemElectroChem</i> , 2015 , 2, 127-133	4.3	20
45	Synthesis and supercapacitance of flower-like Co(OH) ₂ hierarchical superstructures self-assembled by mesoporous nanobelts. <i>Journal of Solid State Electrochemistry</i> , 2012 , 16, 1519-1525	2.6	19
44	Niobium Tungsten Oxide in a Green Water-in-Salt Electrolyte Enables Ultra-Stable Aqueous Lithium-Ion Capacitors. <i>Nano-Micro Letters</i> , 2020 , 12, 168	19.5	19
43	High performance three-dimensional Ge/cyclized-polyacrylonitrile thin film anodes prepared by RF magnetron sputtering for lithium ion batteries. <i>Journal of Materials Science</i> , 2014 , 49, 2279-2285	4.3	18

42	Core/shell Cu/FePtCu nanoparticles with face-centered tetragonal texture: An active and stable low-Pt catalyst for enhanced oxygen reduction. <i>Nano Energy</i> , 2018 , 54, 280-287	17.1	18
41	Interface-hydrothermal synthesis of Sn3S4/graphene sheet composites and their application in electrochemical capacitors. <i>Materials Letters</i> , 2011 , 65, 374-377	3.3	17
40	Stabilized titanium nitride nanowire supported silicon core-shell nanorods as high capacity lithium-ion anodes. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 12476-12481	13	16
39	Facile Synthesis of Nitrogen-Containing Mesoporous Carbon for High-Performance Energy Storage Applications. <i>Chemistry - A European Journal</i> , 2016 , 22, 4256-62	4.8	16
38	General Strategy to Fabricate Ternary Metal Nitride/Carbon Nanofibers for Supercapacitors. <i>ChemElectroChem</i> , 2015 , 2, 2020-2026	4.3	16
37	The origin of capacity fluctuation and rescue of dead Mn-based Zn nb batteries: a Mn-based competitive capacity evolution protocol. <i>Energy and Environmental Science</i> ,	35.4	15
36	Confined germanium nanoparticles in an N-doped carbon matrix for high-rate and ultralong-life lithium ion batteries. <i>RSC Advances</i> , 2015 , 5, 85256-85263	3.7	14
35	Heteroatom-Doped Porous Carbon Nanosheets: General Preparation and Enhanced Capacitive Properties. <i>Chemistry - A European Journal</i> , 2016 , 22, 16668-16674	4.8	14
34	Bacterial cellulose-derived carbon nanofibers as both anode and cathode for hybrid sodium ion capacitor.. <i>RSC Advances</i> , 2020 , 10, 7780-7790	3.7	13
33	Synthesis and electrochemical performances of mixed-valence vanadium oxide/ordered mesoporous carbon composites for supercapacitors. <i>RSC Advances</i> , 2016 , 6, 25056-25061	3.7	13
32	Comparative study of electrochemical capacitance of multi-walled carbon nanotubes before and after chopping. <i>Applied Surface Science</i> , 2010 , 257, 440-445	6.7	13
31	Fabrication of the Oxygen Vacancy Amorphous MnO2/Carbon Nanotube as Cathode for Advanced Aqueous Zinc-Ion Batteries. <i>Energy Technology</i> , 2021 , 9, 2000769	3.5	13
30	Facile Water/Ionic Liquid/Organic Triphase Interfacial Synthesis of Coral-Like Polyaniline toward High-Performance Electrochemical Capacitors. <i>Journal of the Electrochemical Society</i> , 2012 , 159, A1323-A1328	3.9	12
29	Water/ionic liquid/organic three-phase interfacial synthesis of coral-like polypyrrole toward enhanced electrochemical capacitance. <i>Electrochimica Acta</i> , 2011 , 56, 6049-6054	6.7	11
28	A Fast Proton-Induced Pseudocapacitive Supercapacitor with High Energy and Power Density. <i>Advanced Functional Materials</i> , 2010 , 2107720	15.6	11
27	Enhanced electrochemical properties of MgF2 and C co-coated Li3V2(PO4)3 composite for Li-ion batteries. <i>Journal of Electroanalytical Chemistry</i> , 2016 , 762, 1-6	4.1	11
26	Functionalized ionic liquid-assisted mechanochemical synthesis of graphene nanosheet/polypyrrole nanocomposites. <i>Materials Letters</i> , 2012 , 71, 57-59	3.3	10
25	Hierarchical Metal Sulfide/Carbon Spheres: A Generalized Synthesis and High Sodium-Storage Performance. <i>Angewandte Chemie</i> , 2019 , 131, 7316-7321	3.6	8

24	Metal Oxides: Mesoporous NiCo ₂ O ₄ Nanowire Arrays Grown on Carbon Textiles as Binder-Free Flexible Electrodes for Energy Storage (Adv. Funct. Mater. 18/2014). <i>Advanced Functional Materials</i> , 2014 , 24, 2736-2736	15.6	8
23	Reactive Template Fabrication of Uniform Core-Shell Polyaniline/Multiwalled Carbon Nanotube Nanocomposite and Its Electrochemical Capacitance. <i>Chemistry Letters</i> , 2010 , 39, 850-851	1.7	8
22	Conductive Metal-Organic Framework for High Energy Sodium-Ion Hybrid Capacitors. <i>ACS Applied Energy Materials</i> , 2021 , 4, 1568-1574	6.1	8
21	Three-dimensional graphene nanosheets/carbon nanotube paper as flexible electrodes for electrochemical capacitors. <i>RSC Advances</i> , 2015 , 5, 22173-22177	3.7	7
20	Synthesis of Ru _{0.58} In _{0.42} O _{(y)?nH(2)O} nanoparticles dispersed onto poly(sodium-4-styrene sulfonate)-functionalized multi-walled carbon nanotubes and their application for electrochemical capacitors. <i>Journal of Colloid and Interface Science</i> , 2011 , 354, 804-9	9.3	6
19	Mesoporous Carbon: Li ₄ Ti ₅ O ₁₂ Nanoparticles Embedded in a Mesoporous Carbon Matrix as a Superior Anode Material for High Rate Lithium Ion Batteries (Adv. Energy Mater. 6/2012). <i>Advanced Energy Materials</i> , 2012 , 2, 699-699	21.8	5
18	Ion-exchange synthesis of Co-functionalized titanate nanotubes and their application in electrochemical capacitors. <i>Materials Letters</i> , 2011 , 65, 2632-2634	3.3	5
17	Heterostructure NiS ₂ /NiCo ₂ S ₄ nanosheets array on carbon nanotubes sponge electrode with high specific capacitance for supercapacitors. <i>Journal of Power Sources</i> , 2022 , 518, 230763	8.9	5
16	Li ₃ V ₂ (PO ₄) ₃ /nitrogen-doped reduced graphene oxide nanocomposite with enhanced lithium storage properties. <i>Journal of Solid State Electrochemistry</i> , 2016 , 20, 1983-1990	2.6	4
15	Recent Advances in the Synthesis and Energy Applications of 2D MXenes. <i>ChemElectroChem</i> , 2021 , 8, 3804	4.3	4
14	Application of Carbon Nanotubes in Lithium-Ion Batteries 2017 , 251-276		3
13	Synthesis and Electrochemical Performance of Graphene Modified LiFePO ₄ Cathode Materials. <i>Wuli Huaxue Xuebao/Acta Physico-Chimica Sinica</i> , 2012 , 28, 105-110	3.8	3
12	Self-supported TiN nanorod array/carbon textile as a lithium host that induces dendrite-free lithium plating with high rates and long cycle life. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 3293-3299	13	3
11	Preparation and Electrochemical Lithium Storage of Titanium Dioxide@Multi-walled Carbon Nanotubes(TiO ₂ @MWNTs) Nanocomposites. <i>Acta Chimica Sinica</i> , 2012 , 70, 15	3.3	2
10	Kinetic photovoltage along semiconductor-water interfaces. <i>Nature Communications</i> , 2021 , 12, 4998	17.4	2
9	Black TiO ₂ Nanomaterials for Lithium-Ion Batteries 2017 , 249-273		1
8	Lithium-sodium ion capacitors: A new type of hybrid supercapacitors with high energy density. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 888, 115202	4.1	1
7	Nb ₃ O ₇ F mesocrystals: orientation formation and application in lithium ion capacitors. <i>CrystEngComm</i> , 2021 , 23, 6012-6022	3.3	1

6	Vanadium nitride nanoparticles embedded in carbon matrix with pseudocapacitive behavior for high performance lithium-ion capacitors. <i>Rare Metals</i> ,1	5.5	1
5	Stabilizing Li Plating by a Fluorinated Hybrid Protective Layer. <i>ACS Applied Energy Materials</i> , 2021 , 4, 14407-14414	6.1	1
4	High-performance 2.5V supercapacitor with high energy density and long cycling stability based on graphene coated oxygen-vacancy birnessite. <i>Journal of Alloys and Compounds</i> , 2022 , 901, 163543	5.7	0
3	Using a copper hyperaccumulator to synthesize anode and cathode materials for a high-energy 4.1V full-carbon lithium-ion capacitor. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 898, 115616	4.1	0
2	HIERARCHICAL Li ₄ Ti ₅ O ₁₂ MICROSPHERES AS A HIGH POWER ANODE MATERIAL FOR LITHIUM ION BATTERIES. <i>Journal of Molecular and Engineering Materials</i> , 2013 , 01, 1340013	1.3	
1	Self-Standing Flexible N-Doped Graphene/CNTs Supported Spiral Low-Crystalline Ni(OH) ₂ Electrode with Ultra-Long Cycling Stability for Supercapacitors. <i>Nano</i> , 2021 , 16, 2150013	1.1	