

# Hybrid nanostructured materials for high-performance

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Citation Report

#	ARTICLE	IF	CITATIONS
1	High-performance supercapacitors based on silver nanoparticleâ€“polyanilineâ€“graphene nanocomposites coated on flexible carbon fiber paper. <i>Journal of Materials Chemistry A</i> , 2013, 1, 9630.	5.2	196
2	Exploring the interfaces between metal electrodes and aqueous electrolytes with electrochemical impedance spectroscopy. <i>Analyst, The</i> , 2013, 138, 5540.	1.7	89
3	Preparation of manganese dioxide/multiwalled carbon nanotubes hybrid hollow microspheres via layer-by-layer assembly for supercapacitor. <i>Journal of Materials Science</i> , 2013, 48, 7581-7586.	1.7	14
4	Hierarchically structured graphene-based supercapacitor electrodes. <i>RSC Advances</i> , 2013, 3, 21183.	1.7	59
5	Synthesis of Highly Stable Sub-8 nm TiO <sub>2</sub> Nanoparticles and Their Multilayer Electrodes of TiO <sub>2</sub> /MWNT for Electrochemical Applications. <i>Nano Letters</i> , 2013, 13, 4610-4619.	4.5	64
6	Restacking-Inhibited 3D Reduced Graphene Oxide for High Performance Supercapacitor Electrodes. <i>ACS Nano</i> , 2013, 7, 9366-9374.	7.3	384
7	Large-scale and low cost synthesis of graphene as high capacity anode materials for lithium-ion batteries. <i>Carbon</i> , 2013, 64, 158-169.	5.4	40
8	Synthesis of polypyrrole wrapped graphene hydrogels composites as supercapacitor electrodes. <i>Electrochimica Acta</i> , 2013, 114, 125-132.	2.6	110
9	Hybrid Composite Ni(OH) <sub>2</sub> @NiCo <sub>2</sub> O <sub>4</sub> Grown on Carbon Fiber Paper for High-Performance Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 11159-11162.	4.0	181
10	Highly dispersed carbon nanotube/polypyrrole core/shell composites with improved electrochemical capacitive performance. <i>Journal of Materials Chemistry A</i> , 2013, 1, 15230.	5.2	63
11	Tunable N-doped or dual N, S-doped activated hydrothermal carbons derived from human hair and glucose for supercapacitor applications. <i>Electrochimica Acta</i> , 2013, 107, 397-405.	2.6	308
12	Paper-based solid-state supercapacitors with pencil-drawing graphite/polyaniline networks hybrid electrodes. <i>Nano Energy</i> , 2013, 2, 1071-1078.	8.2	348
13	Carbon-coated mesoporous NiO nanoparticles as an electrode material for high performance electrochemical capacitors. <i>New Journal of Chemistry</i> , 2013, 37, 4031.	1.4	44
14	Manganese oxide nanorodâ€“graphene/vanadium oxide nanowireâ€“graphene binder-free paper electrodes for metal oxide hybrid supercapacitors. <i>Nano Energy</i> , 2013, 2, 966-975.	8.2	125
15	Carbon Nanomaterials for Flexible Energy Storage. <i>Materials Research Letters</i> , 2013, 1, 175-192.	4.1	38
16	Ultrathin Co <sub>3</sub> O <sub>4</sub> nanosheet arrays with high supercapacitive performance. <i>Scientific Reports</i> , 2013, 3, 3537.	1.6	177
17	Ultrathin Two-Dimensional MnO <sub>2</sub> /Graphene Hybrid Nanostructures for High-Performance, Flexible Planar Supercapacitors. <i>Nano Letters</i> , 2013, 13, 2151-2157.	4.5	818
18	Influence of calcination temperature on the morphology and energy storage properties of cobalt oxide nanostructures directly grown over carbon cloth substrates. <i>Materials for Renewable and Sustainable Energy</i> , 2013, 2, 1.	1.5	24

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19	Multiwalled Carbon Nanotubes with Tuned Surface Functionalities for Electrochemical Energy Storage. ECS Journal of Solid State Science and Technology, 2013, 2, M3008-M3014.	0.9	17
20	Porous MnO <sub>2</sub> Nano Whiskers Bunch/Activated Carbon Based Composite Electrodes for High Energy Density Supercapacitor. ECS Solid State Letters, 2013, 2, M61-M63.	1.4	9
21	Enhanced Electrophoretic Motion Using Supercapacitor-Based Energy Storage System. Advanced Materials, 2013, 25, 6997-7002.	11.1	12
22	Development of High Performance Electrochemical Capacitor: A Systematic Review of Electrode Fabrication Technique Based on Different Carbon Materials. ECS Journal of Solid State Science and Technology, 2013, 2, M3101-M3119.	0.9	42
23	Electrochemical Behavior and Specific Capacitance of Polyaniline/Silver Nanoparticle/Multi-walled Carbon Nanotube Composites. Chinese Journal of Chemical Physics, 2014, 27, 718-724.	0.6	11
24	Synthesis and electrochemical properties of composite materials based on poly-3,4-ethylenedioxythiophene with manganese dioxide inclusions. Russian Journal of Electrochemistry, 2014, 50, 1157-1163.	0.3	6
25	A high-performance supercapacitor based on a polythiophene/multiwalled carbon nanotube composite by electropolymerization in an ionic liquid microemulsion. Journal of Materials Chemistry A, 2014, 2, 17024-17030.	5.2	106
26	Construction of bicontinuously porous Ni architecture as a deposition scaffold for high performance electrochemical supercapacitors. Nano Energy, 2014, 10, 329-336.	8.2	15
27	Synthesis, properties, and performance of nanostructured metal oxides for supercapacitors. Pure and Applied Chemistry, 2014, 86, 611-632.	0.9	32
28	Three-Dimensionally Ordered Polypyrrole Electrode: Electrochemical Study on Capacity and Degradation Process. Electroanalysis, 2014, 26, 1560-1572.	1.5	17
29	Ultrasound-Assisted Microwave-Assisted Synthesis of MnO <sub>2</sub> Supercapacitor Electrode Materials. Industrial & Engineering Chemistry Research, 2014, 53, 20116-20123.	1.8	81
30	Transition metal oxides/hydroxides nanoarrays for aqueous electrochemical energy storage systems. Science China Materials, 2014, 57, 59-69.	3.5	42
31	Polyaniline@MnO <sub>2</sub> /Graphene Oxide Ternary Composites for Electrochemical Supercapacitors. Advanced Materials Research, 0, 1070-1072, 465-470.	0.3	0
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33	Graphitic Petal Electrodes for All-Solid-State Flexible Supercapacitors. Advanced Energy Materials, 2014, 4, 1300515.	10.2	147
34	Solid-State Supercapacitor Based on Activated Carbon Cloths Exhibits Excellent Rate Capability. Advanced Materials, 2014, 26, 2676-2682.	11.1	660
35	Application and Future Challenges of Functional Nanocarbon Hybrids. Advanced Materials, 2014, 26, 2295-2318.	11.1	290
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37	Strongly coupled carbon nanofiber-metal oxide coaxial nanocables with enhanced lithium storage properties. <i>Energy and Environmental Science</i> , 2014, 7, 302-305.	15.6	144
38	Nanomaterials for electrochemical energy storage. <i>Frontiers of Physics</i> , 2014, 9, 323-350.	2.4	86
39	Tuning silicon nanowires doping level and morphology for highly efficient micro-supercapacitors. <i>Nano Energy</i> , 2014, 5, 20-27.	8.2	41
40	TiO <sub>2</sub> nanotube @ SnO <sub>2</sub> nanoflake core-shell branch arrays for lithium-ion battery anode. <i>Nano Energy</i> , 2014, 4, 105-112.	8.2	165
41	Core-Double-Shell, Carbon Nanotube@Polypyrrole@MnO <sub>2</sub> Sponge as Freestanding, Compressible Supercapacitor Electrode. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 5228-5234.	4.0	298
42	Electro-thermal modelling of a supercapacitor and experimental validation. <i>Journal of Power Sources</i> , 2014, 259, 154-165.	4.0	51
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44	One-Dimensional Nanomaterials for Energy Applications. , 2014, , 75-120.		6
45	Supercapacitors Based on Flexible Substrates: An Overview. <i>Energy Technology</i> , 2014, 2, 325-341.	1.8	172
46	High-performance aqueous sodium-ion batteries with K <sub>0.27</sub> MnO <sub>2</sub> cathode and their sodium storage mechanism. <i>Nano Energy</i> , 2014, 5, 97-104.	8.2	138
47	MoO <sub>3</sub> /PANI coaxial heterostructure nanobelts by in situ polymerization for high performance supercapacitors. <i>Nano Energy</i> , 2014, 7, 72-79.	8.2	150
48	Dual-Layer-Structured Nickel Hexacyanoferrate/MnO <sub>2</sub> Composite as a High-Energy Supercapacitive Material Based on the Complementarity and Interlayer Concentration Enhancement Effect. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 6196-6201.	4.0	76
49	Solvothermal Synthesis of Fe <sub>2</sub> O <sub>3</sub> Loaded Activated Carbon as Electrode Materials for High-performance Electrochemical Capacitors. <i>Electrochimica Acta</i> , 2014, 134, 67-75.	2.6	48
50	Sonochemically synthesized MnO <sub>2</sub> nanoparticles as electrode material for supercapacitors. <i>Ultrasonics Sonochemistry</i> , 2014, 21, 1933-1938.	3.8	88
51	Graphene with three-dimensional architecture for high performance supercapacitor. <i>Carbon</i> , 2014, 67, 221-229.	5.4	133
52	Graphene improving lithium-ion battery performance by construction of NiCo <sub>2</sub> O <sub>4</sub> /graphene hybrid nanosheet arrays. <i>Nano Energy</i> , 2014, 3, 88-94.	8.2	189
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54	Porous Fe <sub>3</sub> O <sub>4</sub> /carbon composite electrode material prepared from metal-organic framework template and effect of temperature on its capacitance. <i>Nano Energy</i> , 2014, 8, 133-140.	8.2	232

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56	Optimizing the charge transfer process by designing Co <sub>3</sub> O <sub>4</sub> @PPy/MnO <sub>2</sub> ternary core-shell composite. Journal of Materials Chemistry A, 2014, 2, 12968-12973.	5.2	84
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58	Porous NiCo <sub>2</sub> O <sub>4</sub> nanostructures for high performance supercapacitors via a microemulsion technique. Nano Energy, 2014, 10, 125-134.	8.2	135
59	Activation Mechanism Study of Dandelion-Like Co <sub>9</sub> S <sub>8</sub> Nanotubes in Supercapacitors. Journal of the Electrochemical Society, 2014, 161, A996-A1000.	1.3	53
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68	A REVIEW OF METAL OXIDE COMPOSITE ELECTRODE MATERIALS FOR ELECTROCHEMICAL CAPACITORS. Nano, 2014, 09, 1430002.	0.5	141
69	Green energy storage chemistries based on neutral aqueous electrolytes. Journal of Materials Chemistry A, 2014, 2, 10739-10755.	5.2	113
70	Freestanding composite electrodes of MnO <sub>x</sub> embedded carbon nanofibers for high-performance supercapacitors. RSC Advances, 2014, 4, 39087.	1.7	32
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74	Oxygen vacancies enhancing capacitive properties of MnO <sub>2</sub> nanorods for wearable asymmetric supercapacitors. <i>Nano Energy</i> , 2014, 8, 255-263.	8.2	381
75	High Performance Supercapacitors Based on the Electrodeposited Co <sub>3</sub> O <sub>4</sub> Nanoflakes on Electro-etched Carbon Fibers. <i>Electrochimica Acta</i> , 2014, 138, 9-14.	2.6	41
76	Flexible solid-state electrochemical supercapacitors. <i>Nano Energy</i> , 2014, 8, 274-290.	8.2	734
77	Layered manganese oxides-decorated and nickel foam-supported carbon nanotubes as advanced binder-free supercapacitor electrodes. <i>Journal of Power Sources</i> , 2014, 269, 760-767.	4.0	159
78	Facile In-situ Synthesis of Hierarchical Porous Ni/Ni(OH) <sub>2</sub> Hybrid Sponges with Excellent Electrochemical Energy Storage Performances for Supercapacitors. <i>Chemistry - an Asian Journal</i> , 2014, 9, 2590-2596.	1.7	9
79	A novel mesoporous carbon@silica nanostructure for high-performance Li-ion battery anodes. <i>Chemical Communications</i> , 2014, 50, 13944-13947.	2.2	15
80	A complete three-dimensionally nanostructured asymmetric supercapacitor with high operating voltage window based on PPy and MnO <sub>2</sub> . <i>Nano Energy</i> , 2014, 10, 63-70.	8.2	99
81	Three-dimensional porous graphene/polyaniline composites for high-rate electrochemical capacitors. <i>Journal of Materials Chemistry A</i> , 2014, 2, 17489-17494.	5.2	138
82	Flexible supercapacitors based on carbon nanotube/MnO <sub>2</sub> nanotube hybrid porous films for wearable electronic devices. <i>Journal of Materials Chemistry A</i> , 2014, 2, 17561-17567.	5.2	132
83	Recent development of metal hydroxides as electrode material of electrochemical capacitors. <i>RSC Advances</i> , 2014, 4, 38893-38917.	1.7	143
84	Solution combustion synthesis of cobalt oxides (Co <sub>3</sub> O <sub>4</sub> and Co <sub>3</sub> O <sub>4</sub> /CoO) nanoparticles as supercapacitor electrode materials. <i>Electrochimica Acta</i> , 2014, 132, 127-135.	2.6	183
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88	Recent advances in porous graphene materials for supercapacitor applications. <i>RSC Advances</i> , 2014, 4, 45862-45884.	1.7	213
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90	Chemically grafted graphene-polyaniline composite for application in supercapacitor. <i>Electrochimica Acta</i> , 2014, 133, 325-334.	2.6	154

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91	High energy density asymmetric pseudocapacitors fabricated by graphene/carbon nanotube/MnO <sub>2</sub> plus carbon nanotubes nanocomposites electrode. Journal of Power Sources, 2014, 259, 145-153.	4.0	44
92	Carbon@MnO <sub>2</sub> core-shell nanospheres for flexible high-performance supercapacitor electrode materials. Journal of Power Sources, 2014, 259, 219-226.	4.0	182
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99	Electrochemical properties of composite materials based on poly-3,4-Ethylenedioxythiophene with nickel oxide inclusions. Russian Journal of Electrochemistry, 2015, 51, 908-915.	0.3	2
100	Hybrid Electrodes by In-Situ Integration of Graphene and Carbon-Nanotubes in Polypyrrole for Supercapacitors. Scientific Reports, 2015, 5, 14445.	1.6	58
101	Flexible and High Performance Supercapacitors Based on NiCo <sub>2</sub> O <sub>4</sub> for Wide Temperature Range Applications. Scientific Reports, 2015, 5, 15265.	1.6	106
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103	Hierarchical Co-based Porous Layered Double Hydroxide Arrays Derived via Alkali Etching for High-performance Supercapacitors. Scientific Reports, 2015, 5, 13082.	1.6	48
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111	Multifunctional Carbon Nanostructures for Advanced Energy Storage Applications. Nanomaterials, 2015, 5, 755-777.	1.9	73
112	Development of electrostatic supercapacitors by atomic layer deposition on nanoporous anodic aluminum oxides for energy harvesting applications. Frontiers in Physics, 2015, 3, .	1.0	10
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124	The influence of preparation conditions on nanoporous nickel-based supercapacitor electrode material obtained by anodisation. Materials Research Innovations, 2015, 19, S2-52-S2-57.	1.0	0
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126	Glucose@ethanol-assisted synthesis of amorphous CoO@C core@shell composites for electrochemical capacitors electrode. Chemical Engineering Journal, 2015, 266, 141-147.	6.6	26
127	Growth of NiS/graphene nanocomposites for enhanced performance of dye sensitized solar cells. Journal of Solid State Electrochemistry, 2015, 19, 1045-1052.	1.2	20
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129	Highly porous honeycomb manganese oxide@carbon fibers core-shell nanocables for flexible supercapacitors. <i>Nano Energy</i> , 2015, 13, 47-57.	8.2	65
130	Facile synthesis of 3D reduced graphene oxide and its polyaniline composite for super capacitor application. <i>Synthetic Metals</i> , 2015, 202, 140-146.	2.1	91
131	Vertically Aligned Carbon Nanotubes on Carbon Nanofibers: A Hierarchical Three-Dimensional Carbon Nanostructure for High-Energy Flexible Supercapacitors. <i>Chemistry of Materials</i> , 2015, 27, 1194-1200.	3.2	113
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135	Note-pad-like Triboelectric Generator for Efficiently Harvesting Low-Velocity Motion Energy by Interconversion between Kinetic Energy and Elastic Potential Energy. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 1275-1283.	4.0	20
136	Polypyrrole Shell@3D Ni Metal Core Structured Electrodes for High-Performance Supercapacitors. <i>Chemistry - A European Journal</i> , 2015, 21, 4614-4621.	1.7	82
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139	Hybrid energy storage: the merging of battery and supercapacitor chemistries. <i>Chemical Society Reviews</i> , 2015, 44, 1777-1790.	18.7	1,768
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142	Making a commercial carbon fiber cloth having comparable capacitances to carbon nanotubes and graphene in supercapacitors through a "top-down" approach. <i>Nanoscale</i> , 2015, 7, 3285-3291.	2.8	62
143	A novel hydrothermal synthesis and characterisation of porous Mn <sub>3</sub> O <sub>4</sub> for supercapacitors with high rate capability. <i>RSC Advances</i> , 2015, 5, 9843-9847.	1.7	50
144	Asymmetric Supercapacitors based on Hybrid CuO@Reduced Graphene Oxide@Sponge versus Reduced Graphene Oxide@Sponge Electrodes. <i>Energy Technology</i> , 2015, 3, 168-176.	1.8	57
145	On-chip interdigitated supercapacitor based on nano-porous gold/manganese oxide nanowires hybrid electrode. <i>Electrochimica Acta</i> , 2015, 163, 107-115.	2.6	50
146	Nitrogen-doped hierarchical porous carbon for supercapacitor with well electrochemical performances. <i>Journal of Solid State Electrochemistry</i> , 2015, 19, 1591-1597.	1.2	27
147	Halloysite nanotubes induced synthesis of carbon/manganese dioxide coaxial tubular nanocomposites as electrode materials for supercapacitors. <i>Journal of Solid State Electrochemistry</i> , 2015, 19, 1257-1263.	1.2	18
148	Template-directed construction of nanostructure arrays for highly-efficient energy storage and conversion. <i>Nano Energy</i> , 2015, 13, 790-813.	8.2	95

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149	Interwoven Three-Dimensional Architecture of Cobalt Oxide Nanobrush-Graphene@Ni <sub>2</sub> Co <sub>2</sub> (OH) <sub>6</sub> for High-Performance Supercapacitors. Nano Letters, 2015, 15, 2037-2044.	4.5	134
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#	ARTICLE	IF	CITATIONS
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431	Intimately coupled hybrid of carbon black/nickel cobaltite for supercapacitors with enhanced energy-storage properties and ultra-long cycle life. <i>Electrochimica Acta</i> , 2017, 257, 494-503.	2.6	18
432	Cliff-like NiO/Ni <sub>3</sub> S <sub>2</sub> Directly Grown on Ni Foam for Battery-type Electrode with High Area Capacity and Long Cycle Stability. <i>Electrochimica Acta</i> , 2017, 251, 235-243.	2.6	49
433	Structural Transformation of Li-Excess Cathode Materials via Facile Preparation and Assembly of Sonication-Induced Colloidal Nanocrystals for Enhanced Lithium Storage Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 31181-31191.	4.0	7
434	Conducting Polymer-Based Materials for Electrochemical Energy Conversion and Storage. <i>Advanced Materials</i> , 2017, 29, 1703044.	11.1	88
435	Multidimensional performance optimization of conducting polymer-based supercapacitor electrodes. <i>Sustainable Energy and Fuels</i> , 2017, 1, 1857-1874.	2.5	133
436	Highly porous nitrogen-doped carbon for superior electric double-layer capacitors. <i>RSC Advances</i> , 2017, 7, 44735-44742.	1.7	22
437	Expanded graphite supported Ni(OH) <sub>2</sub> composites for high performance supercapacitors. <i>Journal of Alloys and Compounds</i> , 2017, 728, 222-230.	2.8	32

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440	Formation of Septuple-shelled (Co <sub>2/3</sub> Mn <sub>1/3</sub> )(Co <sub>5/6</sub> Mn <sub>1/6</sub> ) <sub>2</sub> O <sub>4</sub> Hollow Spheres as Electrode Material for Alkaline Rechargeable Battery. <i>Advanced Materials</i> , 2017, 29, 1700550.	11.1	122
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442	Three-dimensional graphene-based macrostructures for sustainable energy applications and climate change mitigation. <i>Progress in Materials Science</i> , 2017, 90, 224-275.	16.0	60
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454	Towards kilohertz electrochemical capacitors for filtering and pulse energy harvesting. <i>Nano Energy</i> , 2017, 39, 306-320.	8.2	86
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499	A high-performance asymmetric supercapacitor based on vanadyl phosphate/carbon nanocomposites and polypyrrole-derived carbon nanowires. <i>Nanoscale</i> , 2018, 10, 3709-3719.	2.8	36
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540	Electrochemical supercapacitive properties of SILAR-Deposited Mn <sub>3</sub> O <sub>4</sub> electrodes. <i>Vacuum</i> , 2018, 158, 206-214.	1.6	33
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