

Multidimensional materials and device architectures fo

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Citation Report

#	ARTICLE	IF	CITATIONS
1	A Perspective: Could Carbon Current Collectors Improve the Energy Density of Aqueous Alkaline Symmetric Supercapacitors?. Energy Harvesting and Systems, 2016, 3, 287-296.	1.7	0
2	Nano Day: Celebrating the Next Decade of Nanoscience and Nanotechnology. ACS Nano, 2016, 10, 9093-9103.	7.3	77
3	One step synthesis of Ni/Ni(OH) <sub>2</sub> nano sheets (NSs) and their application in asymmetric supercapacitors. RSC Advances, 2017, 7, 5898-5911.	1.7	139
4	A phytic acid etched Ni/Fe nanostructure based flexible network as a high-performance wearable hybrid energy storage device. Journal of Materials Chemistry A, 2017, 5, 3274-3283.	5.2	48
5	Salt-Templated Synthesis of 2D Metallic MoN and Other Nitrides. ACS Nano, 2017, 11, 2180-2186.	7.3	359
6	Battery-Supercapacitor Hybrid Devices: Recent Progress and Future Prospects. Advanced Science, 2017, 4, 1600539.	5.6	1,223
7	Atomic layer deposition of SnO <sub>2</sub> on MXene for Li-ion battery anodes. Nano Energy, 2017, 34, 249-256.	8.2	423
8	POM-based metal-organic framework/reduced graphene oxide nanocomposites with hybrid behavior of battery-supercapacitor for superior lithium storage. Nano Energy, 2017, 34, 205-214.	8.2	308
9	Self-supported electrodes of Na <sub>2</sub> Ti <sub>3</sub> O <sub>7</sub> nanoribbon array/graphene foam and graphene foam for quasi-solid-state Na-ion capacitors. Journal of Materials Chemistry A, 2017, 5, 5806-5812.	5.2	48
10	Pseudocapacitive Sodium Storage in Mesoporous Single-Crystal-like TiO <sub>2</sub> "Graphene Nanocomposite Enables High-Performance Sodium-Ion Capacitors. ACS Nano, 2017, 11, 2952-2960.	7.3	542
11	Anchored Fe <sub>3</sub> O <sub>4</sub> Nanoparticles on rGO Nanosheets as High-Power Negative Electrodes for Aqueous Batteries. ChemElectroChem, 2017, 4, 1295-1305.	1.7	19
12	A Few-Layer SnS <sub>2</sub> /Reduced Graphene Oxide Sandwich Hybrid for Efficient Sodium Storage. Journal of Physical Chemistry C, 2017, 121, 3261-3269.	1.5	105
13	Synergetic effects of K <sup>+</sup> and Mg <sup>2+</sup> ion intercalation on the electrochemical and actuation properties of the two-dimensional Ti <sub>3</sub> C <sub>2</sub> MXene. Faraday Discussions, 2017, 199, 393-403.	1.6	55
14	Facile synthesis of three dimensional flower-like Co <sub>3</sub> O <sub>4</sub> @MnO <sub>2</sub> core-shell microspheres as high-performance electrode materials for supercapacitors. Ceramics International, 2017, 43, 6054-6062.	2.3	31
15	Hierarchical walnut-like Ni <sub>0.5</sub> Co <sub>0.5</sub> O hollow nanospheres comprising ultra-thin nanosheets for advanced energy storage devices. Journal of Materials Chemistry A, 2017, 5, 5781-5790.	5.2	23
16	Fabrication and thermal stability of NH <sub>4</sub> HF <sub>2</sub> -etched Ti <sub>3</sub> C <sub>2</sub> MXene. Ceramics International, 2017, 43, 6322-6328.	2.3	208
17	Computational Insights into Materials and Interfaces for Capacitive Energy Storage. Advanced Science, 2017, 4, 1700059.	5.6	176
18	Toward ultrafast lithium ion capacitors: A novel atomic layer deposition seeded preparation of Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> /graphene anode. Nano Energy, 2017, 36, 46-57.	8.2	138

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19	Transition from Battery to Pseudocapacitor Behavior via Structural Water in Tungsten Oxide. <i>Chemistry of Materials</i> , 2017, 29, 3928-3937.	3.2	175
20	Multi-Atomic Layers of Metallic Aluminum for Ultralong Life Lithium Storage with High Volumetric Capacity. <i>Advanced Functional Materials</i> , 2017, 27, 1700840.	7.8	50
21	Tertiary structure of cactus-like WO <sub>3</sub> spheres self-assembled on Cu foil for supercapacitive electrode materials. <i>Journal of Alloys and Compounds</i> , 2017, 712, 345-354.	2.8	21
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23	High-Performance Asymmetric Li-ion Pseudocapacitors Based on Pyroprotein Nanowebs. <i>ChemElectroChem</i> , 2017, 4, 2079-2083.	1.7	1
24	Reconciled Nanoarchitecture with Overlapped 2D Anatomy for High-Energy Hybrid Supercapacitors. <i>Energy Technology</i> , 2017, 5, 1919-1926.	1.8	4
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26	The role of ceramic and glass science research in meeting societal challenges: Report from an NSF-sponsored workshop. <i>Journal of the American Ceramic Society</i> , 2017, 100, 1777-1803.	1.9	23
27	Recent progress of fiber-shaped asymmetric supercapacitors. <i>Materials Today Energy</i> , 2017, 5, 1-14.	2.5	80
28	Understanding the role of Co <sub>3</sub> O <sub>4</sub> on stability between active hierarchies and scaffolds: An insight into NiMoO <sub>4</sub> composites for supercapacitors. <i>Applied Surface Science</i> , 2017, 416, 160-167.	3.1	19
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32	Lithium and sodium ion capacitors with high energy and power densities based on carbons from recycled olive pits. <i>Journal of Power Sources</i> , 2017, 359, 17-26.	4.0	133
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35	Tailoring the morphological properties of anodized Ti <sub>3</sub> SiC <sub>2</sub> for better power density of Li-ion microbatteries. <i>Electrochemistry Communications</i> , 2017, 81, 29-33.	2.3	15
36	Nanoconfinement of redox reactions enables rapid zinc iodide energy storage with high efficiency. <i>Journal of Materials Chemistry A</i> , 2017, 5, 12520-12527.	5.2	80

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38	Engineering Ultrathin Polyaniline in Micro/Mesoporous Carbon Supercapacitor Electrodes Using Oxidative Chemical Vapor Deposition. <i>Advanced Materials Interfaces</i> , 2017, 4, 1601201.	1.9	66
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45	Dynamic observation of reversible lithium storage phenomena in hybrid supercapacitor devices. <i>Nano Energy</i> , 2017, 41, 494-500.	8.2	17
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56	A novel Ni Coordination Supramolecular Network hybrid monolith of 3D graphene as electrode materials for supercapacitors. <i>Materials Today Energy</i> , 2017, 6, 164-172.	2.5	11
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74	3D walnut-shaped $\text{TiO}_2/\text{RGO}/\text{MoO}_2/\text{Mo}$ electrode exhibiting extraordinary supercapacitor performance. <i>Journal of Materials Chemistry A</i> , 2017, 5, 18777-18785.	5.2	34
75	Air-Stable Porous $\text{Fe}_2\text{N}$ Encapsulated in Carbon Microboxes with High Volumetric Lithium Storage Capacity and a Long Cycle Life. <i>Nano Letters</i> , 2017, 17, 5740-5746.	4.5	132
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92	Influence of sintering temperature and graphene additives on the electrochemical performance of porous Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> anode for lithium ion capacitor. <i>Electrochimica Acta</i> , 2017, 246, 1237-1247.	2.6	35
93	Understanding the enhancement of electrochemical properties of NiCo layered double hydroxides via functional pillared effect: An insight into dual charge storage mechanisms. <i>Electrochimica Acta</i> , 2017, 246, 406-414.	2.6	50
94	Mechanisms and Designs of Asymmetrical Electrochemical Capacitors. <i>Electrochimica Acta</i> , 2017, 247, 344-357.	2.6	60
95	High-rate capability of three-dimensionally ordered macroporous T-Nb <sub>2</sub> O <sub>5</sub> through Li <sup>+</sup> intercalation pseudocapacitance. <i>Journal of Power Sources</i> , 2017, 361, 80-86.	4.0	139
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100	TiO <sub>2</sub> nanotubes with different spacing, Fe <sub>2</sub> O <sub>3</sub> decoration and their evaluation for Li-ion battery application. <i>Nanotechnology</i> , 2018, 29, 195402.	1.3	25
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102	Synthesis and application of NiMnO <sub>3</sub> -rGO nanocomposites as electrode materials for hybrid energy storage devices. <i>Applied Surface Science</i> , 2018, 460, 74-83.	3.1	30
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110	Thermoswitchable on-chip microsupercapacitors: one potential self-protection solution for electronic devices. <i>Energy and Environmental Science</i> , 2018, 11, 1717-1722.	15.6	79
111	Ab-initio study of thermodynamic stability, thermoelectric and optical properties of perovskites ATiO <sub>3</sub> (A=Pb, Sn). <i>Journal of Solid State Chemistry</i> , 2018, 263, 115-122.	1.4	54
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116	A Nonaqueous Potassium-Based Battery-Supercapacitor Hybrid Device. <i>Advanced Materials</i> , 2018, 30, e1800804.	11.1	345
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129	Advanced batteries based on manganese dioxide and its composites. <i>Energy Storage Materials</i> , 2018, 12, 284-309.	9.5	107
130	Advanced Phosphorus-Based Materials for Lithium/Sodium-Ion Batteries: Recent Developments and Future Perspectives. <i>Advanced Energy Materials</i> , 2018, 8, 1703058.	10.2	197
131	Novel PANI/MnFe <sub>2</sub> O <sub>4</sub> nanocomposite for low-cost supercapacitors with high rate capability. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 6077-6085.	1.1	35
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133	Water Desalination with Energy Storage Electrode Materials. <i>Joule</i> , 2018, 2, 10-15.	11.7	217
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141	Composites of Proteins and 2D Nanomaterials. <i>Advanced Functional Materials</i> , 2018, 28, 1704990.	7.8	38
142	Recent Progress in Porous Graphene and Reduced Graphene Oxide-Based Nanomaterials for Electrochemical Energy Storage Devices. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701212.	1.9	95
143	Optimized hard carbon derived from starch for rechargeable seawater batteries. <i>Carbon</i> , 2018, 129, 564-571.	5.4	54
144	Electrochemical analysis of nanoporous carbons derived from activation of polypyrrole for stable supercapacitors. <i>Journal of Materials Science</i> , 2018, 53, 5229-5241.	1.7	26

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147	Electrodeposition of hydrated vanadium pentoxide on nanoporous carbon cloth for hybrid energy storage. Sustainable Energy and Fuels, 2018, 2, 577-588.	2.5	30
148	Controlled synthesis of hierarchical nanoflake structure of NiO thin film for supercapacitor application. Journal of Alloys and Compounds, 2018, 741, 549-556.	2.8	63
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151	Bilayered nanoporous graphene/molybdenum oxide for high rate lithium ion batteries. Nano Energy, 2018, 45, 273-279.	8.2	54
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155	Template-induced self-activation route for nitrogen-doped hierarchically porous carbon spheres for electric double layer capacitors. Carbon, 2018, 136, 204-210.	5.4	61
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164	Development of asymmetric supercapacitors with titanium carbide-reduced graphene oxide couples as electrodes. <i>Electrochimica Acta</i> , 2018, 259, 752-761.	2.6	103
165	Binder-Free Hybrid Titanium-Niobium Oxide/Carbon Nanofiber Mats for Lithium-Ion Battery Electrodes. <i>ChemSusChem</i> , 2018, 11, 159-170.	3.6	30
166	Facile synthesis of NiS anchored carbon nanofibers for high-performance supercapacitors. <i>Applied Surface Science</i> , 2018, 434, 112-119.	3.1	76
167	Electrochemical investigation of manganese ferrites prepared via a facile synthesis route for supercapacitor applications. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 538, 668-677.	2.3	76
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171	Engineering rGO-CNT wrapped Co <sub>3</sub> S <sub>4</sub> nanocomposites for high-performance asymmetric supercapacitors. <i>Chemical Engineering Journal</i> , 2018, 334, 66-80.	6.6	189
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173	Nanotube-like hard carbon as high-performance anode material for sodium ion hybrid capacitors. <i>Science China Materials</i> , 2018, 61, 285-295.	3.5	34
174	Aerosol-Spray Pyrolysis toward Preparation of Nanostructured Materials for Batteries and Supercapacitors. <i>Small Methods</i> , 2018, 2, 1700272.	4.6	48
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177	Ultrathin nickel hydroxide on carbon coated 3D-porous copper structures for high performance supercapacitors. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 719-727.	1.3	31
178	Oriented Multiwalled Organic-Co(OH) <sub>2</sub> Nanotubes for Energy Storage. <i>Advanced Functional Materials</i> , 2018, 28, 1702320.	7.8	26
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193	MnO <sub>2</sub> /CdS/N-doped Graphite Nanocomposite for High-Performance Supercapacitors. <i>International Journal of Electrochemical Science</i> , 2018, 13, 642-654.	0.5	7
194	Elastic versus Alloying Effects in Mg-Based Hydride Films. <i>Physical Review Letters</i> , 2018, 121, 255503.	2.9	23
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222	Novel nanocomposite of MnFe <sub>2</sub> O <sub>4</sub> and nitrogen-doped carbon from polyaniline carbonization as electrode material for symmetric ultra-stable supercapacitor. <i>Electrochimica Acta</i> , 2018, 282, 116-127.	2.6	79
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236	Rationally designed spider web-like trivanadium heptaoxide nanowires on carbon cloth as a new class of pseudocapacitive electrode for symmetric supercapacitors with high energy density and ultra-long cyclic stability. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11390-11404.	5.2	37
237	Building Next-Generation Li-ion Capacitors with High Energy: An Approach beyond Intercalation. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 3946-3958.	2.1	51
238	Ultrafast Aqueous Potassium-Ion Batteries Cathode for Stable Intermittent Grid-Scale Energy Storage. <i>Advanced Energy Materials</i> , 2018, 8, 1801413.	10.2	136
239	Review-Advent of TiO <sub>2</sub> Nanotubes as Supercapacitor Electrode. <i>Journal of the Electrochemical Society</i> , 2018, 165, E345-E358.	1.3	65
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242	Hierarchical Cobalt-Based Metal-Organic Framework for High-Performance Lithium-Ion Batteries. <i>Chemistry - A European Journal</i> , 2018, 24, 13362-13367.	1.7	60
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248	Engineered Nanomaterial in Electronics and Electrical Industries. , 2018, , 324-364.		13
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254	Nitrogen-Doped Wrinkled Carbon Foils Derived from MOF Nanosheets for Superior Sodium Storage. <i>Advanced Energy Materials</i> , 2018, 8, 1801515.	10.2	158
255	Benzenediol-Functionalized Carbon Nanosheets as Low Self-Discharge Aqueous Supercapacitors. <i>ChemSusChem</i> , 2018, 11, 3307-3314.	3.6	27
256	Concentrated mixed cation acetate seawater-in-salt solutions as green and low-cost high voltage electrolytes for aqueous batteries. <i>Energy and Environmental Science</i> , 2018, 11, 2876-2883.	15.6	315
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258	Low-valence bicomponent (FeO) <sub>x</sub> (MnO) <sub>1-x</sub> nanocrystals embedded in amorphous carbon as high-performance anode materials for lithium storage. <i>Journal of Materials Chemistry A</i> , 2018, 6, 15274-15283.	5.2	24
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262	A low-cost Mg <sup>2+</sup> /Na <sup>+</sup> hybrid aqueous battery. <i>Journal of Materials Chemistry A</i> , 2018, 6, 15762-15770.	5.2	23
263	Neuron-Inspired Fe <sub>3</sub> O <sub>4</sub> /Conductive Carbon Filament Network for High-Speed and Stable Lithium Storage. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 17923-17932.	4.0	36
264	Nitrogen-doped flexible carbon cloth for durable metal free electrocatalyst for overall water splitting. <i>Surface and Coatings Technology</i> , 2018, 347, 407-413.	2.2	29
265	Lavender-like cobalt hydroxide nanoflakes deposited on nickel nanowire arrays for high-performance supercapacitors. <i>RSC Advances</i> , 2018, 8, 17263-17271.	1.7	10
266	One step synthesis of rGO-Ni <sub>3</sub> S <sub>2</sub> nano-cubes composite for high-performance supercapacitor electrodes. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 17780-17787.	3.8	51
267	Synthesis of Pseudocapacitive Porous Metal Oxide Nanoclusters Anchored on Graphene for Aqueous Energy Storage Devices with High Energy Density and Long Cycling Stability along with Ultrafast Charging Capability. <i>Advanced Functional Materials</i> , 2018, 28, 1803695.	7.8	20
268	Sodium Ion Capacitor Using Pseudocapacitive Layered Ferric Vanadate Nanosheets Cathode. <i>IScience</i> , 2018, 6, 212-221.	1.9	63
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270	Nano-RuO <sub>2</sub> -Decorated Holey Graphene Composite Fibers for Micro-Supercapacitors with Ultrahigh Energy Density. <i>Small</i> , 2018, 14, e1800582.	5.2	113

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272	Holographic Fabrication of 3D Nanostructures. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800330.	1.9	17
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274	Inkjet Printing of Self-Assembled 2D Titanium Carbide and Protein Electrodes for Stimuli-Responsive Electromagnetic Shielding. <i>Advanced Functional Materials</i> , 2018, 28, 1801972.	7.8	157
275	Promising biomass-derived nitrogen-doped porous carbon for high performance supercapacitor. <i>Journal of Porous Materials</i> , 2019, 26, 99-108.	1.3	38
276	Design and understanding of dendritic mixed-metal hydroxide nanosheets@N-doped carbon nanotube array electrode for high-performance asymmetric supercapacitors. <i>Energy Storage Materials</i> , 2019, 16, 632-645.	9.5	225
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284	Capacitive conjugated ladder polymers for fast-charge and -discharge sodium-ion batteries and hybrid supercapacitors. <i>Journal of Materials Chemistry A</i> , 2019, 7, 20891-20898.	5.2	65
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287	Nanostructured porous CrN thin films by oblique angle magnetron sputtering for symmetric supercapacitors. <i>Journal of Alloys and Compounds</i> , 2019, 806, 953-959.	2.8	27
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