

Towards flexible solid-state supercapacitors for smart a

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Hierarchical CuO nanorod arrays <i>in situ</i> generated on three-dimensional copper foam <i>via</i> cyclic voltammetry oxidation for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018, 6, 10474-10483.	5.2	182
2	Flexible, large-area, all-solid-state supercapacitors using spray deposited PEDOT:PSS/reduced-graphene oxide. <i>Electrochimica Acta</i> , 2018, 270, 37-47.	2.6	62
3	An advanced sandwich-type architecture of MnCo ₂ O ₄ @N ⁺ C@MnO ₂ as an efficient electrode material for a high-energy density hybrid asymmetric solid-state supercapacitor. <i>Journal of Materials Chemistry A</i> , 2018, 6, 24509-24522.	5.2	102
4	Durable, flexible self-standing hydrogel electrolytes enabling high-safety rechargeable solid-state zinc metal batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 23046-23054.	5.2	127
5	Boosting solid-state flexible supercapacitors by employing tailored hierarchical carbon electrodes and a high-voltage organic gel electrolyte. <i>Journal of Materials Chemistry A</i> , 2018, 6, 24979-24987.	5.2	39
6	Steam-assisted assemblies of {Ni ₆ PW ₉ } ⁻ -based inorganic-organic hybrid chains: synthesis, crystal structures and properties. <i>CrystEngComm</i> , 2018, 20, 7507-7512.	1.3	6
7	Sweat-based wearable energy harvesting-storage hybrid textile devices. <i>Energy and Environmental Science</i> , 2018, 11, 3431-3442.	15.6	196
8	A Conductive and Highly Deformable All-Pseudocapacitive Composite Paper as Supercapacitor Electrode with Improved Areal and Volumetric Capacitance. <i>Small</i> , 2018, 14, e1803786.	5.2	158
9	Lithium polyacrylate-polyacrylamide blend as polymer electrolytes for solid-state electrochemical capacitors. <i>Electrochemistry Communications</i> , 2018, 97, 77-81.	2.3	32
10	RGO-Protected Electroless Plated Nickel Electrode with Enhanced Stability Performance for Flexible Micro-Supercapacitors. <i>ACS Applied Energy Materials</i> , 2018, 1, 7182-7190.	2.5	12
11	A Flexible All-in-One Lithium-Sulfur Battery. <i>ACS Nano</i> , 2018, 12, 12503-12511.	7.3	95
12	Cobalt-Doped Porous Carbon Nanosheets Derived from 2D Hypercrosslinked Polymer with CoN ₄ for High Performance Electrochemical Capacitors. <i>Polymers</i> , 2018, 10, 1339.	2.0	17
13	Recent Progress in Micro-Supercapacitor Design, Integration, and Functionalization. <i>Small Methods</i> , 2019, 3, 1800367.	4.6	154
14	Low Temperature Tolerant Organohydrogel Electrolytes for Flexible Solid-State Supercapacitors. <i>Advanced Energy Materials</i> , 2018, 8, 1801967.	10.2	288
15	All-Metal-Organic Framework-Derived Battery Materials on Carbon Nanotube Fibers for Wearable Energy-Storage Device. <i>Advanced Science</i> , 2018, 5, 1801462.	5.6	89
16	Materials and Devices for Biodegradable and Soft Biomedical Electronics. <i>Materials</i> , 2018, 11, 2108.	1.3	66
17	Recent advances of light-driven micro/nanomotors: toward powerful thrust and precise control. <i>Nanotechnology Reviews</i> , 2018, 7, 555-581.	2.6	36
18	Hierarchical MnS ₂ -MoS ₂ nanotubes with efficient electrochemical performance for energy storage. <i>Materials and Design</i> , 2018, 160, 1071-1079.	3.3	19

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19	Flexible Lithium-Air Battery in Ambient Air with an In Situ Formed Gel Electrolyte. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16131-16135.	7.2	89
20	Flexible Lithium-Air Battery in Ambient Air with an In Situ Formed Gel Electrolyte. <i>Angewandte Chemie</i> , 2018, 130, 16363-16367.	1.6	63
21	Solar-Thermal Driven Self-Heating of Micro-Supercapacitors at Low Temperatures. <i>Solar Rrl</i> , 2018, 2, 1800223.	3.1	36
22	Nanocasting and Direct Synthesis Strategies for Mesoporous Carbons as Supercapacitor Electrodes. <i>Chemistry of Materials</i> , 2018, 30, 7391-7412.	3.2	92
23	Cr ₂ O ₃ nanoparticles: a fascinating electrode material combining both surface-controlled and diffusion-limited redox reactions for aqueous supercapacitors. <i>Journal of Materials Science</i> , 2018, 53, 16458-16465.	1.7	20
24	Materials for energy storage: Review of electrode materials and methods of increasing capacitance for supercapacitors. <i>Journal of Energy Storage</i> , 2018, 20, 30-40.	3.9	303
25	Metallic layered germanium phosphide GeP ₅ for high rate flexible all-solid-state supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018, 6, 19409-19416.	5.2	31
26	Graphene-Wrapped Polyaniline Nanowire Array Modified Functionalized of Carbon Cloth for High-Performance Flexible Solid-State Supercapacitor. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 14723-14733.	3.2	77
27	A flexible 3-D structured carbon molecular sieve@PEDOT composite electrode for supercapacitor. <i>Journal of Electroanalytical Chemistry</i> , 2018, 826, 191-197.	1.9	9
28	Sustainable Utilization of Biomass Refinery Wastes for Accessing Activated Carbons and Supercapacitor Electrode Materials. <i>ChemSusChem</i> , 2018, 11, 3599-3608.	3.6	70
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30	Influence of deposition temperature on physical and electrochemical properties of reduced graphene oxide electrode material for supercapacitor application. <i>Ceramics International</i> , 2018, 44, 14547-14555.	2.3	14
31	Copper molybdenum sulfide: A novel pseudocapacitive electrode material for electrochemical energy storage device. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 12222-12232.	3.8	66
32	Superfast Electrodeposition of Newly Developed RuCo ₂ O ₄ Nanobelts over Low-Cost Stainless Steel Mesh for High-Performance Aqueous Supercapacitor. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800283.	1.9	40
33	Design and Fabrication of Printed Paper-Based Hybrid Micro-Supercapacitor by using Graphene and Redox-Active Electrolyte. <i>ChemSusChem</i> , 2018, 11, 1849-1856.	3.6	46
34	Ternary composite solid-state flexible supercapacitor based on nanocarbons/manganese dioxide/PEDOT:PSS fibres. <i>Materials and Design</i> , 2018, 155, 194-202.	3.3	34
35	All-fiber-based quasi-solid-state lithium-ion battery towards wearable electronic devices with outstanding flexibility and self-healing ability. <i>Nano Energy</i> , 2018, 51, 425-433.	8.2	83
36	Electrochemical energy storage devices for wearable technology: a rationale for materials selection and cell design. <i>Chemical Society Reviews</i> , 2018, 47, 5919-5945.	18.7	314

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38	Near-infrared irradiation induced remote and efficient self-healable triboelectric nanogenerator for potential implantable electronics. <i>Nano Energy</i> , 2018, 51, 333-339.	8.2	106
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41	Enhanced electrochemical property of graphite felt@Co ₂ (OH) ₂ CO ₃ via Ni ²⁺ /P electrodeposition for flexible supercapacitors. <i>Electrochimica Acta</i> , 2018, 283, 1568-1577.	2.6	20
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43	Alkaline Exchange Polymer Membrane Electrolyte for High Performance of All-Solid-State Electrochemical Devices. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 29593-29598.	4.0	52
44	Surface Modified Carbon Cloth via Nitrogen Plasma for Supercapacitor Applications. <i>Journal of the Electrochemical Society</i> , 2018, 165, A2446-A2450.	1.3	32
45	Facile morphology control of high aspect ratio patterned Si nanowires by metal-assisted chemical etching. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 18167-18177.	1.1	11
46	Supercapacitor with high cycling stability through electrochemical deposition of metal-organic frameworks/polypyrrole positive electrode. <i>Dalton Transactions</i> , 2018, 47, 13472-13478.	1.6	64
47	Functional biomaterials towards flexible electronics and sensors. <i>Biosensors and Bioelectronics</i> , 2018, 119, 237-251.	5.3	139
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53	Paper-Based, Hand-Painted Strain Sensor Based on ITO Nanoparticle Channels for Human Motion Monitoring. <i>IEEE Access</i> , 2019, 7, 77200-77207.	2.6	21
54	Porous and Hierarchically Structured Ammonium Nickel Molybdate/Nickel Sulfide/Reduced Graphene Oxide Ternary Composite as High Performance Electrode for Supercapacitors. <i>ChemElectroChem</i> , 2019, 6, 3806-3814.	1.7	13

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56	CoS ₂ nanodots anchored into heteroatom-doped carbon layer via a biomimetic strategy: Boosting the oxygen evolution and supercapacitor performance. <i>Journal of Power Sources</i> , 2019, 436, 226862.	4.0	48
57	Boosting the Capacitance of an Aqueous Zinc-Ion Hybrid Energy Storage Device by Using Poly(3,3'-dihydroxybenzidine)-Modified Nanoporous Carbon Cathode. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 14195-14202.	3.2	33
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62	Flexible solvent-free supercapacitors with high energy density enabled by electrical-ionic hybrid polymer nanocomposites. <i>Journal of Materials Chemistry A</i> , 2019, 7, 16748-16760.	5.2	18
63	Nanocellulose-Based Conductive Membranes for Free-Standing Supercapacitors: A Review. <i>Membranes</i> , 2019, 9, 74.	1.4	22
64	Metal-organic framework-derived materials for electrochemical energy applications. <i>EnergyChem</i> , 2019, 1, 100001.	10.1	438
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66	Binary cooperative flexible magnetoelectric materials working as self-powered tactile sensors. <i>Journal of Materials Chemistry C</i> , 2019, 7, 8527-8536.	2.7	31
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68	An Olefin-Linked Covalent Organic Framework as a Flexible Thin-Film Electrode for a High-Performance Micro-Supercapacitor. <i>Angewandte Chemie</i> , 2019, 131, 12193-12197.	1.6	78
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71	Flexible Zinc-Ion Hybrid Fiber Capacitors with Ultrahigh Energy Density and Long Cycling Life for Wearable Electronics. <i>Small</i> , 2019, 15, e1903817.	5.2	143
72	Laser-Graving-Assisted Fabrication of Foldable Supercapacitors for On-Chip Energy Storage. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 42172-42178.	4.0	9

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73	CNT/High Mass Loading MnO ₂ /Graphene-Grafted Carbon Cloth Electrodes for High-Energy Asymmetric Supercapacitors. <i>Nano-Micro Letters</i> , 2019, 11, 88.	14.4	82
74	Synthesis of a Novel Mn(II)-porphyrins polycondensation polymer and its application as pseudo-capacitor electrode material. <i>Journal of Organometallic Chemistry</i> , 2019, 900, 120940.	0.8	12
75	Carbon-Based Electrode Materials for Microsupercapacitors in Self-Powering Sensor Networks: Present and Future Development. <i>Sensors</i> , 2019, 19, 4231.	2.1	16
76	Hydrated ruthenium dioxides @ graphene based fiber supercapacitor for wearable electronics. <i>Journal of Power Sources</i> , 2019, 440, 227143.	4.0	35
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82	Engineering Redox Activity in Conjugated Microporous Polytriphenylamine Networks Using Pyridyl Building Blocks toward Efficient Supercapacitors. <i>Macromolecular Rapid Communications</i> , 2019, 40, e1900455.	2.0	35
83	Enhancing Energy Storage Devices with Biomacromolecules in Hybrid Electrodes. <i>Biotechnology Journal</i> , 2019, 14, e1900062.	1.8	21
84	Cellular Graphene: Fabrication, Mechanical Properties, and Strain-Sensing Applications. <i>Matter</i> , 2019, 1, 1148-1202.	5.0	46
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108	Estimation of dynamic tire force by measurement of vehicle body responses with numerical and experimental validation. Mechanical Systems and Signal Processing, 2019, 123, 369-385.	4.4	39

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116	Facile Synthesis of Three-Dimensional Ordered Porous Amorphous Ni-P for High-Performance Asymmetric Supercapacitors. <i>Journal of the Electrochemical Society</i> , 2019, 166, D37-D43.	1.3	16
117	Facile synthesis of mesoporous ZnCo ₂ O ₄ hierarchical microspheres and their excellent supercapacitor performance. <i>Ceramics International</i> , 2019, 45, 8577-8584.	2.3	72
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122	Recent Progress in Ruthenium Oxide-Based Composites for Supercapacitor Applications. <i>ChemElectroChem</i> , 2019, 6, 4343-4372.	1.7	198
123	High-performance polypyrrole coated knitted cotton fabric electrodes for wearable energy storage. <i>Organic Electronics</i> , 2019, 74, 59-68.	1.4	33
124	An Olefin-Linked Covalent Organic Framework as a Flexible Thin-Film Electrode for a High-Performance Micro-Supercapacitor. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 12065-12069.	7.2	226
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130	An ultra-dense NiS ₂ /reduced graphene oxide composite cathode for high-volumetric/gravimetric energy density nickel-zinc batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 15654-15661.	5.2	108
131	Fractal granular BiVO ₄ microspheres as high performance anode material for Li-ion battery. <i>Materials Letters</i> , 2019, 252, 235-238.	1.3	16
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136	Morphology-controlled synthesis of NiCo ₂ O ₄ nanoflowers on stainless steel substrates as high-performance supercapacitors. <i>Materials Science for Energy Technologies</i> , 2019, 2, 556-564.	1.0	12
137	Core-shell Porous Polyaniline Nanorods/Graphene Fiber-Shaped Supercapacitors with High Specific Capacitance and Rate Capability. <i>ACS Applied Energy Materials</i> , 2019, 2, 4335-4344.	2.5	72
138	Shaping and structuring supramolecular gels. <i>Nature Reviews Materials</i> , 2019, 4, 463-478.	23.3	270
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143	A flexible and self-healing hydrogel electrolyte for smart supercapacitor. <i>Journal of Power Sources</i> , 2019, 431, 210-219.	4.0	136
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