

# Flexible solid-state supercapacitors: design, fabrication

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Flexible, in-plane, and all-solid-state micro-supercapacitors based on printed interdigital Au/polyaniline network hybrid electrodes on a chip. Journal of Materials Chemistry A, 2014, 2, 20916-20922.	5.2	72
2	Flexible and conductive MXene films and nanocomposites with high capacitance. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 16676-16681.	3.3	1,713
3	All-solid-state flexible micro-supercapacitor arrays with patterned graphene/MWNT electrodes. Carbon, 2014, 79, 156-164.	5.4	151
4	Petal-shaped poly(3,4-ethylenedioxythiophene)/sodium dodecyl sulfate-graphene oxide intercalation composites for high-performance electrochemical energy storage. Journal of Power Sources, 2014, 272, 203-210.	4.0	48
5	Flexible supercapacitors based on carbon nanotube/MnO <sub>2</sub> nanotube hybrid porous films for wearable electronic devices. Journal of Materials Chemistry A, 2014, 2, 17561-17567.	5.2	132
6	Nanosheet-Based Hierarchical Ni <sub>2</sub> (CO <sub>3</sub> ) <sub>2</sub> (OH) <sub>2</sub> Microspheres with Weak Crystallinity for High-Performance Supercapacitor. ACS Applied Materials & Interfaces, 2014, 6, 17208-17214.	4.0	126
7	High-performance all-solid-state flexible supercapacitors based on two-step activated carbon cloth. Journal of Power Sources, 2014, 272, 16-23.	4.0	103
8	Green synthesis of in situ electrodeposited rGO/MnO <sub>2</sub> nanocomposite for high energy density supercapacitors. Scientific Reports, 2015, 5, 16195.	1.6	67
9	Hierarchical One-Dimensional Ammonium Nickel Phosphate Microrods for High-Performance Pseudocapacitors. Scientific Reports, 2015, 5, 17629.	1.6	71
10	High nitrogen-containing cotton derived 3D porous carbon frameworks for high-performance supercapacitors. Scientific Reports, 2015, 5, 15388.	1.6	44
11	VO <sub>2</sub> /TiO <sub>2</sub> Nanosponges as Binder-Free Electrodes for High-Performance Supercapacitors. Scientific Reports, 2015, 5, 16012.	1.6	63
12	Flexible Asymmetric Supercapacitor Based on Structure-Optimized Mn <sub>3</sub> O <sub>4</sub> /Reduced Graphene Oxide Nanohybrid Paper with High Energy and Power Density. Advanced Functional Materials, 2015, 25, 7291-7299.	7.8	146
13	Programmable Nanocarbon-Based Architectures for Flexible Supercapacitors. Advanced Energy Materials, 2015, 5, 1500677.	10.2	87
14	Sodium-Doped Mesoporous Ni <sub>2</sub> P <sub>2</sub> O <sub>7</sub> Hexagonal Tablets for High-Performance Flexible All-Solid-State Hybrid Supercapacitors. Chemistry - an Asian Journal, 2015, 10, 1731-1737.	1.7	80
15	Nitrogen-Doped Carbon Encapsulated Mesoporous Vanadium Nitride Nanowires as Self-Supported Electrodes for Flexible All-Solid-State Supercapacitors. Advanced Materials Interfaces, 2015, 2, 1500211.	1.9	104
16	Condiment-Derived 3D Architecture Porous Carbon for Electrochemical Supercapacitors. Small, 2015, 11, 4959-4969.	5.2	109
17	Organic-Inorganic Perovskite Light-Emitting Electrochemical Cells with a Large Capacitance. Advanced Functional Materials, 2015, 25, 7226-7232.	7.8	87
18	Flexible and Binder-Free Electrodes of Sb/rGO and Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /rGO Nanocomposites for Sodium-Ion Batteries. Small, 2015, 11, 3822-3829.	5.2	184

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20	Layer by Layer Ex-Situ Deposited Cobalt-Manganese Oxide as Composite Electrode Material for Electrochemical Capacitor. <i>PLoS ONE</i> , 2015, 10, e0129780.	1.1	6
21	A Bamboo-Inspired Nanostructure Design for Flexible, Foldable, and Twistable Energy Storage Devices. <i>Nano Letters</i> , 2015, 15, 3899-3906.	4.5	296
22	Three dimensional architectures: design, assembly and application in electrochemical capacitors. <i>Journal of Materials Chemistry A</i> , 2015, 3, 15792-15823.	5.2	135
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36	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

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131	Superior high-voltage aqueous carbon/carbon supercapacitors operating with in situ electrodeposited polyvinyl alcohol borate gel polymer electrolytes. <i>Journal of Materials Chemistry A</i> , 2016, 4, 16588-16596.	5.2	34
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276	Flexible N-doped active carbon/bacterial cellulose paper for supercapacitor electrode with high areal performance. <i>Synthetic Metals</i> , 2017, 226, 104-112.	2.1	21
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#	ARTICLE	IF	CITATIONS
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417	2D Metal-Organic Frameworks Derived Nanocarbon Arrays for Substrate Enhancement in Flexible Supercapacitors. <i>Small</i> , 2018, 14, e1702641.	5.2	80
418	Rational design of hybrid Co <sub>3</sub> O <sub>4</sub> /graphene films: Free-standing flexible electrodes for high performance supercapacitors. <i>Electrochimica Acta</i> , 2018, 259, 338-347.	2.6	75
419	Non-aqueous quasi-solid electrolyte for use in supercapacitors. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 59, 192-195.	2.9	7
420	A flexible and high voltage symmetric supercapacitor based on hybrid configuration of cobalt hexacyanoferrate/reduced graphene oxide hydrogels. <i>Chemical Engineering Journal</i> , 2018, 335, 321-329.	6.6	61
421	A non-polarity flexible asymmetric supercapacitor with nickel nanoparticle@ carbon nanotube three-dimensional network electrodes. <i>Energy Storage Materials</i> , 2018, 11, 75-82.	9.5	73
422	Synthesis of hollow NiCo <sub>2</sub> O <sub>4</sub> nanospheres with large specific surface area for asymmetric supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2018, 511, 456-462.	5.0	163
423	New Insights into the Operating Voltage of Aqueous Supercapacitors. <i>Chemistry - A European Journal</i> , 2018, 24, 3639-3649.	1.7	211
424	Simple and novel strategy to fabricate ultra-thin, lightweight, stackable solid-state supercapacitors based on MnO <sub>2</sub> -incorporated CNT-web paper. <i>Energy</i> , 2018, 142, 608-616.	4.5	32
425	Perovskite LaNiO <sub>3-<math>\delta</math></sub> oxide as an anion-intercalated pseudocapacitor electrode. <i>Journal of Alloys and Compounds</i> , 2018, 731, 381-388.	2.8	90
426	Aqueous based solid battery-capacitor asymmetrical system for capacitive energy storage device. <i>Materials Chemistry and Physics</i> , 2018, 203, 346-351.	2.0	5
427	Biomass-derived electrodes for flexible supercapacitors. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2018, 9, 18-24.	3.2	64
428	Facile construction of MoS <sub>2</sub> /RCF electrode for high-performance supercapacitor. <i>Carbon</i> , 2018, 127, 699-706.	5.4	114
429	Polyampholyte-doped aligned polymer hydrogels as anisotropic electrolytes for ultrahigh-capacity supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018, 6, 58-64.	5.2	38
430	Kelp-like structured NiCo <sub>2</sub> S <sub>4</sub> -C-MoS <sub>2</sub> composite electrodes for high performance supercapacitor. <i>Journal of Alloys and Compounds</i> , 2018, 735, 1505-1513.	2.8	81
431	Flexible, all-solid-state, high-cell potential supercapacitors based on holey reduced graphene oxide/manganese dioxide nanosheets. <i>Electrochimica Acta</i> , 2018, 260, 944-951.	2.6	42
432	Simple Synthesis of Au-Pd Alloy Nanowire Networks as Macroscopic, Flexible Electrocatalysts with Excellent Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 602-613.	4.0	36
433	Recent Smart Methods for Achieving High-Energy Asymmetric Supercapacitors. <i>Small Methods</i> , 2018, 2, 1700230.	4.6	147

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434	Three-dimensional nanoporous N-doped graphene/iron oxides as anode materials for high-density energy storage in asymmetric supercapacitors. <i>Chemical Engineering Journal</i> , 2018, 335, 467-474.	6.6	28
435	Hierarchically nanostructured transition metal oxides for supercapacitors. <i>Science China Materials</i> , 2018, 61, 185-209.	3.5	90
436	Silver nanowires as the current collector for a flexible in-plane micro-supercapacitor via a one-step, mask-free patterning strategy. <i>Nanotechnology</i> , 2018, 29, 055401.	1.3	24
437	Construction of NiTe/NiSe Composites on Ni Foam for High-Performance Asymmetric Supercapacitor. <i>ChemElectroChem</i> , 2018, 5, 507-514.	1.7	36
438	Hydrothermal encapsulation of VO <sub>2</sub> (A) nanorods in amorphous carbon by carbonization of glucose for energy storage devices. <i>Dalton Transactions</i> , 2018, 47, 452-464.	1.6	171
439	Recent Advances toward Achieving High-Performance Carbon-Fiber Materials for Supercapacitors. <i>ChemElectroChem</i> , 2018, 5, 571-582.	1.7	54
440	RF-sputter deposited flexible copper oxide thin films for electrochemical energy storage. <i>Indian Journal of Physics</i> , 2018, 92, 21-27.	0.9	3
441	Micromixing Study of a Clustered Countercurrent-Flow Micro-Channel Reactor and Its Application in the Precipitation of Ultrafine Manganese Dioxide. <i>Micromachines</i> , 2018, 9, 549.	1.4	6
442	A dynamic stretchable and self-healable supercapacitor with a CNT/graphene/PANI composite film. <i>Nanoscale</i> , 2018, 10, 22329-22334.	2.8	65
443	Stitchable supercapacitors with high energy density and high rate capability using metal nanoparticle-assembled cotton threads. <i>Journal of Materials Chemistry A</i> , 2018, 6, 20421-20432.	5.2	21
444	Ultrafine MnO <sub>2</sub> nanowires grown on RGO-coated carbon cloth as a binder-free and flexible supercapacitor electrode with high performance. <i>RSC Advances</i> , 2018, 8, 38631-38640.	1.7	11
445	NiCo <sub>2</sub> O <sub>4</sub> /NiCoP nanoflake-nanowire arrays: a homogeneous hetero-structure for high performance asymmetric hybrid supercapacitors. <i>Dalton Transactions</i> , 2018, 47, 16320-16328.	1.6	79
446	Synthesis of porous graphene-like carbon materials for high-performance supercapacitors from petroleum pitch using nano-CaCO <sub>3</sub> as a template. <i>New Carbon Materials</i> , 2018, 33, 316-323.	2.9	32
447	Percolating Film of Pillared Graphene Layer Integrated with Silver Nanowire Network for Transparent and Flexible Supercapacitors. <i>Langmuir</i> , 2018, 34, 15245-15252.	1.6	23
448	Lithium polyacrylate-polyacrylamide blend as polymer electrolytes for solid-state electrochemical capacitors. <i>Electrochemistry Communications</i> , 2018, 97, 77-81.	2.3	32
449	Effect of gel polymer electrolyte based on polyvinyl alcohol/polyethylene oxide blend and sodium salts on the performance of solid-state supercapacitor. <i>Bulletin of Materials Science</i> , 2018, 41, 1.	0.8	20
450	Facial Synthesis of 3D MnO <sub>2</sub> Nanofibers Sponge and Its Application in Supercapacitors. <i>International Journal of Electrochemical Science</i> , 2018, 13, 12320-12330.	0.5	6
451	Recent Progress in Micro-Supercapacitor Design, Integration, and Functionalization. <i>Small Methods</i> , 2019, 3, 1800367.	4.6	154

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452	Low Temperature Tolerant Organohydrogel Electrolytes for Flexible Solid-State Supercapacitors. <i>Advanced Energy Materials</i> , 2018, 8, 1801967.	10.2	288
453	Stretchable and Self-Healing Integrated All-Gel-State Supercapacitors Enabled by a Notch-Insensitive Supramolecular Hydrogel Electrolyte. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 36028-36036.	4.0	94
454	Synthesis of Porous Carbon by Activation Method and its Electrochemical Performance. <i>International Journal of Electrochemical Science</i> , 2018, 13, 10766-10773.	0.5	65
455	Biotemplated Synthesis of Transition Metal Nitride Architectures for Flexible Printed Circuits and Wearable Energy Storages. <i>Advanced Functional Materials</i> , 2018, 28, 1805510.	7.8	43
456	Microfluidic-spinning construction of black-phosphorus-hybrid microfibres for non-woven fabrics toward a high energy density flexible supercapacitor. <i>Nature Communications</i> , 2018, 9, 4573.	5.8	181
457	Hierarchical FeCo <sub>2</sub> O <sub>4</sub> @polypyrrole Core/Shell Nanowires on Carbon Cloth for High-Performance Flexible All-Solid-State Asymmetric Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 14945-14954.	3.2	117
458	A MnO <sub>2</sub> nanosheet/single-wall carbon nanotube hybrid fiber for wearable solid-state supercapacitors. <i>Carbon</i> , 2018, 140, 634-643.	5.4	48
459	Novel high-performance asymmetric supercapacitors based on nickel-cobalt composite and PPy for flexible and wearable energy storage. <i>Journal of Power Sources</i> , 2018, 402, 91-98.	4.0	48
460	A flexible dual solid-state electrolyte supercapacitor with suppressed self-discharge and enhanced stability. <i>Sustainable Energy and Fuels</i> , 2018, 2, 2727-2732.	2.5	23
461	Two-dimensional materials for miniaturized energy storage devices: from individual devices to smart integrated systems. <i>Chemical Society Reviews</i> , 2018, 47, 7426-7451.	18.7	384
462	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
463	Lithium Ion Capacitors in Organic Electrolyte System: Scientific Problems, Material Development, and Key Technologies. <i>Advanced Energy Materials</i> , 2018, 8, 1801243.	10.2	207
464	Facile and fast microwave-assisted fabrication of activated and porous carbon cloth composites with graphene and MnO <sub>2</sub> for flexible asymmetric supercapacitors. <i>Electrochimica Acta</i> , 2018, 280, 9-16.	2.6	69
465	Scalable fabrication of ultrathin free-standing graphene nanomesh films for flexible ultrafast electrochemical capacitors with AC line-filtering performance. <i>Nano Energy</i> , 2018, 50, 182-191.	8.2	66
466	Probing the electrical properties and energy storage performance of electrospun ZnMn <sub>2</sub> O <sub>4</sub> nanofibers. <i>Solid State Ionics</i> , 2018, 321, 75-82.	1.3	40
467	Construction of hierarchical zinc cobalt sulfide@nickel sulfide core-shell nanosheet arrays for high-performance asymmetric solid-state supercapacitors. <i>Chemical Engineering Journal</i> , 2018, 349, 397-407.	6.6	45
468	Special report on the achievements realized by researchers of Chinese Academy of Sciences in the field of energy storage technologies. <i>Journal of Energy Storage</i> , 2018, 18, 285-294.	3.9	5
469	A Flexible and Knittable Fiber Supercapacitor for Wearable Energy Storage with High Energy Density and Mechanical Robustness. <i>Journal of the Electrochemical Society</i> , 2018, 165, A1515-A1522.	1.3	24

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470	All-solid-state batteries with slurry coated LiNi <sub>0.8</sub> Co <sub>0.1</sub> Mn <sub>0.1</sub> O <sub>2</sub> composite cathode and Li <sub>6</sub> PS <sub>5</sub> Cl electrolyte: Effect of binder content. <i>Journal of Power Sources</i> , 2018, 391, 73-79.	4.0	168
471	Conjugated polymer-based carbonaceous films as binder-free carbon electrodes in supercapacitors. <i>RSC Advances</i> , 2018, 8, 19512-19523.	1.7	4
472	High-Performance Ionic Liquid-Based Gel Polymer Electrolyte Incorporating Anion-Trapping Boron Sites for All-Solid-State Supercapacitor Application. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 39570-39580.	4.0	78
473	A novel stretchable supercapacitor electrode with high linear capacitance. <i>Chemical Engineering Journal</i> , 2018, 349, 168-175.	6.6	46
474	Ag-Nanoparticle-Decorated 2D Titanium Carbide (MXene) with Superior Electrochemical Performance for Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 7442-7450.	3.2	120
475	Oxygen-deficient tungsten oxide nanorods with high crystallinity: Promising stable anode for asymmetric supercapacitors. <i>Electrochimica Acta</i> , 2018, 283, 639-645.	2.6	28
476	A High-Rate and Stable Quasi-Solid-State Zinc-Ion Battery with Novel 2D Layered Zinc Orthovanadate Array. <i>Advanced Materials</i> , 2018, 30, e1803181.	11.1	571
477	Solid polymer electrolyte membranes based on quaternized polysulfone and solvent-free fluid as separators for electrical double-layer capacitors. <i>Electrochimica Acta</i> , 2018, 283, 97-103.	2.6	15
478	Mn <sub>3</sub> O <sub>4</sub> /RGO/SWCNT hybrid film for all-solid-state flexible supercapacitor with high energy density. <i>Electrochimica Acta</i> , 2018, 283, 174-182.	2.6	28
479	One-step mild synthesis of Mn-based spinel MnIIICrIII <sub>2</sub> O <sub>4</sub> /MnIIMnIII <sub>2</sub> O <sub>4</sub> /C and Co-based spinel CoCr <sub>2</sub> O <sub>4</sub> /C nanoparticles as battery-type electrodes for high-performance supercapacitor application. <i>Electrochimica Acta</i> , 2018, 283, 197-211.	2.6	29
480	Carbon and Metal Oxides Based Nanomaterials for Flexible High Performance Asymmetric Supercapacitors. Springer Theses, 2018, , .	0.0	5
481	Synthesis of NiMoSO <sub>4</sub> /rGO Composites Based on NiMoO <sub>4</sub> and Reduced Graphene with High-Performance Electrochemical Electrodes. <i>ChemistrySelect</i> , 2018, 3, 6719-6728.	0.7	15
482	Synthesis and application of nanocages in supercapacitors. <i>Chemical Engineering Journal</i> , 2018, 351, 135-156.	6.6	52
483	High energy flexible supercapacitors formed via bottom-up infilling of gel electrolytes into thick porous electrodes. <i>Nature Communications</i> , 2018, 9, 2578.	5.8	121
484	Green Biobatteries: Hybrid Paper-Polymer Microbial Fuel Cells. <i>Advanced Sustainable Systems</i> , 2018, 2, 1800041.	2.7	30
485	Fabrication of three-dimensional composite textile electrodes by metal-organic framework, zinc oxide, graphene and polyaniline for all-solid-state supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2018, 530, 29-36.	5.0	55
486	Engineering Microsized Materials through Enhanced Colloidal Interactions of Graphene for Ultrahigh-Mass-Loading and Flexible Electrodes. <i>ACS Applied Energy Materials</i> , 2018, 1, 2378-2384.	2.5	8
487	Transition-Metal Oxides Anchored on Nitrogen-Enriched Carbon Ribbons for High-Performance Pseudocapacitors. <i>Chemistry - A European Journal</i> , 2018, 24, 16104-16112.	1.7	22

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488	Hierarchical self-assembly flower-like ammonium nickel phosphate as high-rate performance electrode material for asymmetric supercapacitors with enhanced energy density. <i>Nanotechnology</i> , 2018, 29, 425401.	1.3	31
489	Surface-crumpled graphene hydrogels with macro- and microporous structures for ultrahigh-volumetric energy storage. <i>Journal of Power Sources</i> , 2018, 399, 115-124.	4.0	39
490	Hierarchical mesoporous flower-like ZnCo <sub>2</sub> O <sub>4</sub> @NiO nanoflakes grown on nickel foam as high-performance electrodes for supercapacitors. <i>Electrochimica Acta</i> , 2018, 284, 128-141.	2.6	47
491	Reactive laser synthesis of nitrogen-doped hybrid graphene-based electrodes for energy storage. <i>Journal of Materials Chemistry A</i> , 2018, 6, 16074-16086.	5.2	26
492	A stable high-power Na <sub>2</sub> Ti <sub>3</sub> O <sub>7</sub> /LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> Li-ion hybrid energy storage device. <i>Electrochimica Acta</i> , 2018, 284, 30-37.	2.6	12
495	Hierarchical Ni <sub>2</sub> /Mo <sub>2</sub> S and Ni <sub>2</sub> /Fe <sub>2</sub> S Nanosheets with Ultrahigh Energy Density for Flexible All Solid-State Supercapacitors. <i>Advanced Functional Materials</i> , 2018, 28, 1803287.	7.8	223
496	Hierarchical three-dimensional manganese doped cobalt phosphide nanowire decorated nanosheet cluster arrays for high-performance electrochemical pseudocapacitor electrodes. <i>Chemical Communications</i> , 2018, 54, 9234-9237.	2.2	65
497	Adhesion-Enhanced Flexible Conductive Metal Patterns on Polyimide Substrate Through Direct Writing Catalysts with Novel Surface-Modification Electroless Deposition. <i>ChemistrySelect</i> , 2018, 3, 7612-7618.	0.7	7
498	N/S co-doped three-dimensional graphene hydrogel for high performance supercapacitor. <i>Electrochimica Acta</i> , 2018, 278, 51-60.	2.6	136
499	Acrylamide-derived freestanding polymer gel electrolyte for flexible metal-air batteries. <i>Journal of Power Sources</i> , 2018, 400, 566-571.	4.0	83
500	One-Pot Synthesis of a Double-Network Hydrogel Electrolyte with Extraordinarily Excellent Mechanical Properties for a Highly Compressible and Bendable Flexible Supercapacitor. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 29684-29693.	4.0	98
501	Pastes and hydrogels from carboxymethyl cellulose sodium salt as supporting electrolyte of solid electrochemical supercapacitors. <i>Carbohydrate Polymers</i> , 2018, 200, 456-467.	5.1	37
502	Wearable stretchable double-sided micro-supercapacitors with porous conductive elastomers. , 2018, , .		0
503	All-in-one piezoresistive-sensing patch integrated with micro-supercapacitor. <i>Nano Energy</i> , 2018, 53, 189-197.	8.2	79
504	Low temperature synthesis of sponge-like NiV <sub>2</sub> O <sub>6</sub> /C composite by calcining Ni-V-based coordination polymer for supercapacitor application. <i>Journal of Electroanalytical Chemistry</i> , 2018, 823, 80-91.	1.9	35
505	One-step preparation of one dimensional nickel ferrites/graphene composites for supercapacitor electrode with excellent cycling stability. <i>Journal of Power Sources</i> , 2018, 396, 41-48.	4.0	73
506	Flexible Fe <sub>2</sub> O <sub>3</sub> and V <sub>2</sub> O <sub>5</sub> Nanofibers as Binder-Free Electrodes for High-Performance All-Solid-State Asymmetric Supercapacitors. <i>Chemistry - A European Journal</i> , 2018, 24, 10683-10688.	1.7	49
507	In situ confined conductive nickel cobalt sulfoselenide with tailored composition in graphitic carbon hollow structure for energy storage. <i>Chemical Engineering Journal</i> , 2018, 351, 678-687.	6.6	33

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508	Highly loaded manganese oxide with high rate capability for capacitive applications. <i>Journal of Power Sources</i> , 2018, 396, 238-245.	4.0	19
509	High-Performance Biomass-Based Flexible Solid-State Supercapacitor Constructed of Pressure-Sensitive Lignin-Based and Cellulose Hydrogels. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 22190-22200.	4.0	141
510	Low-Resistance Porous Nanocellular MnSe Electrodes for High-Performance All-Solid-State Battery-Supercapacitor Hybrid Devices. <i>Advanced Materials Technologies</i> , 2018, 3, 1800074.	3.0	58
511	Asymmetric Supercapacitors Assembled by Dual Spinel Ferrites@Graphene Nanocomposites as Electrodes. <i>ACS Applied Energy Materials</i> , 2018, 1, 3206-3215.	2.5	44
512	Wrapping RGO/MoO <sub>2</sub> /carbon textile as supercapacitor electrode with enhanced flexibility and areal capacitance. <i>Electrochimica Acta</i> , 2018, 282, 784-791.	2.6	20
513	Tunable preparation of chrysanthemum-like titanium nitride as flexible electrode materials for ultrafast-charging/discharging and excellent stable supercapacitors. <i>Journal of Power Sources</i> , 2018, 396, 319-326.	4.0	54
514	Recent Development of Fabricating Flexible Micro-Supercapacitors for Wearable Devices. <i>Advanced Materials Technologies</i> , 2018, 3, 1800028.	3.0	69
515	Design of an intermediate carbon layer between bimetallic sulfide and a carbon-based substrate for high-performance asymmetric supercapacitors. <i>New Journal of Chemistry</i> , 2018, 42, 12511-12519.	1.4	7
516	Free-standing Reduced Graphene Oxide/MoO <sub>3</sub> Composite Film with High Performance for Flexible Supercapacitors. <i>ChemistrySelect</i> , 2019, 4, 9165-9173.	0.7	8
517	An Ecofriendly Gel Polymer Electrolyte Based on Natural Lignocellulose with Ultrahigh Electrolyte Uptake and Excellent Ionic Conductivity for Alkaline Supercapacitors. <i>ACS Applied Energy Materials</i> , 2019, 2, 6031-6042.	2.5	28
518	Computational Studies on Structural and Electronic Properties of NiCo <sub>2</sub> S <sub>4</sub> (001)/KOH Electrolyte Interface. <i>Journal of Electronic Materials</i> , 2019, 48, 6347-6353.	1.0	1
519	Nanocellulose applications in sustainable electrochemical and piezoelectric systems: A review. <i>Carbohydrate Polymers</i> , 2019, 224, 115149.	5.1	61
520	An interfacial polymerization strategy towards high-performance flexible supercapacitors. <i>Journal of Materials Chemistry A</i> , 2019, 7, 20158-20161.	5.2	24
521	Poly(ethylene glycol) nanocomposites of sub-nanometer metal oxide clusters for dynamic semi-solid proton conductive electrolytes. <i>Chemical Science</i> , 2019, 10, 7333-7339.	3.7	56
522	Rational design of modified fluororubber-based quasi-solid-state electrolyte for flexible supercapacitors with enhanced performance. <i>Chemical Engineering Journal</i> , 2019, 378, 122244.	6.6	13
523	Hydrothermal synthesis of VS <sub>4</sub> /CNTs composite with petal-shape structures performing a high specific capacity in a large potential range for high-performance symmetric supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2019, 554, 191-201.	5.0	57
524	Freestanding Lamellar Porous Carbon Stacks for Low-Temperature-Foldable Supercapacitors. <i>Small</i> , 2019, 15, e1902071.	5.2	39
525	Mixed solvent exfoliated transition metal oxides nanosheets based flexible solid state supercapacitor devices endowed with high energy density. <i>New Journal of Chemistry</i> , 2019, 43, 12385-12395.	1.4	41

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526	Synthesis of holey graphene networks functionalized with p-phenylene diamine monomers for superior performance flexible solid-state supercapacitors. <i>Electrochimica Acta</i> , 2019, 320, 134610.	2.6	20
527	A novel ordered hollow spherical nickel silicate@nickel hydroxide composite with two types of morphologies for enhanced electrochemical storage performance. <i>Materials Chemistry Frontiers</i> , 2019, 3, 2090-2101.	3.2	74
528	Rate-independent and ultra-stable low-temperature sodium storage in pseudocapacitive TiO <sub>2</sub> nanowires. <i>Journal of Materials Chemistry A</i> , 2019, 7, 19297-19304.	5.2	25
529	Synthesis of urchin-like Ni <sub>3</sub> Si <sub>2</sub> O <sub>5</sub> (OH) <sub>4</sub> hierarchical hollow spheres/GO composite with enhanced electrochemical properties for high-performance hybrid supercapacitors. <i>Dalton Transactions</i> , 2019, 48, 11749-11762.	1.6	30
530	Solution-processed organic PDI/CB/TPU cathodes for flexible lithium ion batteries. <i>Electrochimica Acta</i> , 2019, 319, 201-209.	2.6	13
531	Controlled sulfidation towards achieving core-shell 1D-NiMoO <sub>4</sub> @ 2D-NiMoS <sub>4</sub> architecture for high-performance asymmetric supercapacitor. <i>Journal of Alloys and Compounds</i> , 2019, 804, 27-34.	2.8	39
532	Design and performance of an ultra-flexible solid state supercapacitor based on thermo-crosslinking carbon nanotube paper/Co <sub>3</sub> O <sub>4</sub> nanowire electrode. <i>Materials Research Express</i> , 2019, 6, 085628.	0.8	0
533	Graphene quantum dots/graphene fiber nanochannels for osmotic power generation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 23727-23732.	5.2	30
534	Hierarchical NiCo <sub>2</sub> S <sub>4</sub> @Ni <sub>3</sub> S <sub>2</sub> core/shell nanorod arrays supported on carbon cloth for all-solid-state flexible asymmetric supercapacitors. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 13462-13473.	1.1	7
535	Porous MoS <sub>2</sub> /CoS Nanosheets on Carbon Cloth for All-Solid-State Flexible Asymmetric Supercapacitors. <i>Advanced Materials Interfaces</i> , 2019, 6, 1901138.	1.9	21
536	Graphene oxide: An effective ionic conductivity promoter for phosphoric acid-doped poly (vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 34	1.8	22
537	Carbon-Based Electrode Materials for Microsupercapacitors in Self-Powering Sensor Networks: Present and Future Development. <i>Sensors</i> , 2019, 19, 4231.	2.1	16
538	Composite of manganese dioxide impregnated in porous hollow carbon spheres for flexible asymmetric solid-state supercapacitors. <i>International Journal of Energy Research</i> , 2019, 43, 9025-9033.	2.2	12
539	Self-Supported, Sulfate-Functionalized Nickel Hydroxide Nanoplates with Enhanced Wettability and Conductivity for Use in High-Performance Supercapacitors. <i>ChemSusChem</i> , 2019, 12, 5291-5299.	3.6	23
540	2D Metal Carbides and Nitrides (MXenes)., 2019, , .		240
541	Enhancing Energy Storage Devices with Biomacromolecules in Hybrid Electrodes. <i>Biotechnology Journal</i> , 2019, 14, e1900062.	1.8	21
542	High-performance fibre supercapacitors based on ball-milled activated carbon nanoparticles mixed with pen ink. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 20881-20891.	1.1	5
543	Wide Potential Window Supercapacitors Using Open-Shell Donor-Acceptor Conjugated Polymers with Stable N-Doped States. <i>Advanced Energy Materials</i> , 2019, 9, 1902806.	10.2	53

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544	<i>In situ</i> formation of a renewable cellulose hydrogel electrolyte for high-performance flexible all-solid-state asymmetric supercapacitors. <i>Sustainable Energy and Fuels</i> , 2019, 3, 3109-3115.	2.5	50
545	Incorporation of MnO <sub>2</sub> into Egg Yolk Derived P, N, O-Tridoped Carbon for Supercapacitors with Excellent Cycling Stability. <i>International Journal of Electrochemical Science</i> , 2019, 14, 8284-8295.	0.5	5
546	Free-standing PEDOT/polyaniline conductive polymer hydrogel for flexible solid-state supercapacitors. <i>Electrochimica Acta</i> , 2019, 322, 134769.	2.6	127
547	Recent progress of self-powered wearable monitoring systems integrated with microsupercapacitors. <i>Materials Today Nano</i> , 2019, 8, 100050.	2.3	33
548	An inorganic salt reinforced Zn <sup>2+</sup> -conducting solid-state electrolyte for ultra-stable Zn metal batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 22287-22295.	5.2	62
549	Hierarchical porous carbon foam supported on carbon cloth as high-performance anodes for aqueous supercapacitors. <i>Journal of Power Sources</i> , 2019, 439, 227066.	4.0	21
550	Biomass derived carbon as binder-free electrode materials for supercapacitors. <i>Carbon</i> , 2019, 155, 706-726.	5.4	273
551	Construction of Hierarchical NiCo <sub>2</sub> O <sub>4</sub> @Ni-MOF Hybrid Arrays on Carbon Cloth as Superior Battery-Type Electrodes for Flexible Solid-State Hybrid Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 37675-37684.	4.0	169
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553	Ammonia-assisted thermal activation of graphene-embellished biological fiber for flexible supercapacitors. <i>Journal of Alloys and Compounds</i> , 2019, 785, 944-950.	2.8	10
554	Compact self-standing layered film assembled by V <sub>2</sub> O <sub>5</sub> ·nH <sub>2</sub> O/CNTs 2D/1D composites for high volumetric capacitance flexible supercapacitors. <i>Science China Materials</i> , 2019, 62, 936-946.	3.5	19
555	Flexible Zn-Ion Batteries: Recent Progresses and Challenges. <i>Small</i> , 2019, 15, e1804760.	5.2	412
556	A 3D walking palm-like core-shell CoMoO <sub>4</sub> @NiCo <sub>2</sub> S <sub>4</sub> @nickel foam composite for high-performance supercapacitors. <i>Dalton Transactions</i> , 2019, 48, 3853-3861.	1.6	103
557	Electrochemically building three-dimensional supramolecular polymer hydrogel for flexible solid-state micro-supercapacitors. <i>Electrochimica Acta</i> , 2019, 301, 136-144.	2.6	69
558	A soft yet device-level dynamically super-tough supercapacitor enabled by an energy-dissipative dual-crosslinked hydrogel electrolyte. <i>Nano Energy</i> , 2019, 58, 732-742.	8.2	187
559	Construction of 3D Si@Ti@TiN thin film arrays for aqueous symmetric supercapacitors. <i>Chemical Communications</i> , 2019, 55, 1402-1405.	2.2	25
560	Reconfigurable solid-state electrolytes for high performance flexible supercapacitor. <i>Journal of Power Sources</i> , 2019, 432, 16-23.	4.0	22
561	Skin-Inspired Surface-Microstructured Tough Hydrogel Electrolytes for Stretchable Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 21895-21903.	4.0	80



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564	A universal <i>in situ</i> strategy for charging supercapacitors. <i>Journal of Materials Chemistry A</i> , 2019, 7, 15131-15136.	5.2	13
565	Integration of Ultrathin MoS <sub>2</sub> /PANI/CNT Composite Paper in Producing All-Solid-State Flexible Supercapacitors with Exceptional Volumetric Energy Density. <i>Journal of Physical Chemistry C</i> , 2019, 123, 17864-17872.	1.5	51
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567	Lifetime assessment of solid-state hybrid supercapacitors based on cotton fabric electrodes. <i>Journal of Power Sources</i> , 2019, 434, 226735.	4.0	23
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578	Printed supercapacitors: materials, printing and applications. <i>Chemical Society Reviews</i> , 2019, 48, 3229-3264.	18.7	360
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581	Honeycomb-like polyaniline for flexible and folding all-solid-state supercapacitors. <i>Frontiers of Materials Science</i> , 2019, 13, 133-144.	1.1	13
582	Unique hierarchical mesoporous LaCrO <sub>3</sub> perovskite oxides for highly efficient electrochemical energy storage applications. <i>Ceramics International</i> , 2019, 45, 15164-15170.	2.3	59
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586	Facile synthesis of rod-like nickel-cobalt oxide nanostructure for supercapacitor with excellent cycling stability. <i>Materials Research Bulletin</i> , 2019, 116, 117-125.	2.7	22
587	Hierarchical MnO <sub>2</sub> /activated carbon cloth electrode prepared by synchronized electrochemical activation and oxidation for flexible asymmetric supercapacitors. <i>Chemical Engineering Journal</i> , 2019, 372, 1047-1055.	6.6	89
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591	Textile-based RGO-muffled cobalt (II, III) oxide hybrid nano-architectures for flexible energy storage device. <i>Applied Surface Science</i> , 2019, 485, 238-246.	3.1	13
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594	High-Performance Symmetric Supercapacitor Constructed Using Carbon Cloth Boosted by Engineering Oxygen-Containing Functional Groups. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 18044-18050.	4.0	110
595	Graphene wrapped MXene via plasma exfoliation for all-solid-state flexible supercapacitors. <i>Energy Storage Materials</i> , 2019, 20, 299-306.	9.5	108
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599	Systematic study on hybrid supercapacitor of Ni-Co layered double hydroxide//activated carbons. <i>Electrochimica Acta</i> , 2019, 305, 403-415.	2.6	58
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609	Metal-organic framework composites and their electrochemical applications. <i>Journal of Materials Chemistry A</i> , 2019, 7, 7301-7327.	5.2	284
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612	3D Cu(OH) <sub>2</sub> nanowires/carbon cloth for flexible supercapacitors with outstanding cycle stability. <i>Chemical Engineering Journal</i> , 2019, 371, 348-355.	6.6	59
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615	A fundamental approach to design of injectable high-content gel polymer electrolyte for activated carbon electrode supercapacitors. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 76, 429-436.	2.9	9
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618	Ni-Co-N hybrid porous nanosheets on graphene paper for flexible and editable asymmetric all-solid-state supercapacitors. <i>Nano Energy</i> , 2019, 61, 18-26.	8.2	107
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620	Nanostructure NiCo <sub>2</sub> S <sub>4</sub> with different morphologies grown on Ni foam for high-performance supercapacitors. <i>Ionics</i> , 2019, 25, 3331-3339.	1.2	8
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622	Confined growth of NiCo <sub>2</sub> S <sub>4</sub> nanosheets on carbon flakes derived from eggplant with enhanced performance for asymmetric supercapacitors. <i>Chemical Engineering Journal</i> , 2019, 366, 550-559.	6.6	170
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626	A new strategy for anchoring a functionalized graphene hydrogel in a carbon cloth network to support a lignosulfonate/polyaniline hydrogel as an integrated electrode for flexible high areal-capacitance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2019, 7, 5819-5830.	5.2	130
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633	Recent progress in nanostructured transition metal nitrides for advanced electrochemical energy storage. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14-37.	5.2	181
634	Highly Conductive and Stretchable Ag Nanodendrite-Based Composites for Application in Nanoelectronics. <i>ACS Applied Nano Materials</i> , 2019, 2, 351-359.	2.4	7

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637	Hierarchical NiCo hydroxide nanosheets deposited on 3D porous Ni arrays for cost-effective high-performance supercapacitors. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 2552-2562.	1.1	13
638	Reduced graphene Oxide/Poly(1,5 dihydroxynaphthalene)/TiO <sub>2</sub> nanocomposite conducting polymer coated on gold as a supercapacitor electrode. <i>Electrochimica Acta</i> , 2019, 298, 726-734.	2.6	29
639	Recent progress in printed flexible solid-state supercapacitors for portable and wearable energy storage. <i>Journal of Power Sources</i> , 2019, 410-411, 69-77.	4.0	159
640	A Single Robust Hydrogel Film Based Integrated Flexible Supercapacitor. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 165-173.	3.2	89
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647	Pt-decorated graphene network materials for supercapacitors with enhanced power density. <i>Carbon</i> , 2019, 145, 281-289.	5.4	22
648	Thin-Film Electrode-Based Supercapacitors. <i>Joule</i> , 2019, 3, 338-360.	11.7	171
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650	A Study of Bending Properties of Solid Electrochemical Capacitors. <i>Journal of the Electrochemical Society</i> , 2019, 166, A15-A20.	1.3	6
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654	High-efficiency self-charging smart bracelet for portable electronics. <i>Nano Energy</i> , 2019, 55, 29-36.	8.2	116
655	Polyvinyl alcohol-acid redox active gel electrolytes for electrical double-layer capacitor devices. <i>Journal of Solid State Electrochemistry</i> , 2019, 23, 125-133.	1.2	13
656	Co ions doped NiTe electrode material for asymmetric supercapacitor application. <i>Journal of Alloys and Compounds</i> , 2019, 776, 993-1001.	2.8	36
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661	Hierarchical NiCoP nanosheet arrays with enhanced electrochemical properties for high-performance wearable hybrid capacitors. <i>Journal of Alloys and Compounds</i> , 2019, 781, 783-789.	2.8	19
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665	A highly stretchable, self-healing, recyclable and interfacial adhesion gel: Preparation, characterization and applications. <i>Chemical Engineering Journal</i> , 2019, 360, 334-341.	6.6	72
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667	A self-healable and mechanical toughness flexible supercapacitor based on polyacrylic acid hydrogel electrolyte. <i>Chemical Engineering Journal</i> , 2019, 357, 428-434.	6.6	87
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672	Hierarchical Mn <sub>3</sub> O <sub>4</sub> Anchored on 3D Graphene Aerogels via Ca <sup>2+</sup> O <sup>2-</sup> Mn Linkage with Superior Electrochemical Performance for Flexible Asymmetric Supercapacitor. <i>Chemistry - A European Journal</i> , 2020, 26, 9314-9318.	1.7	15
673	Dynamic Ion Correlations in Solid and Liquid Electrolytes: How Do They Affect Charge and Mass Transport?. <i>ChemElectroChem</i> , 2020, 7, 367-385.	1.7	84
674	Polymers for supercapacitors: Boosting the development of the flexible and wearable energy storage. <i>Materials Science and Engineering Reports</i> , 2020, 139, 100520.	14.8	145
675	Rational Design of Nanostructured Electrode Materials toward Multifunctional Supercapacitors. <i>Advanced Functional Materials</i> , 2020, 30, 1902564.	7.8	252
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679	Recyclable and tear-resistant all-in-one supercapacitor with dynamic electrode/electrolyte interface. <i>Journal of Colloid and Interface Science</i> , 2020, 561, 629-637.	5.0	46
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