

# CITATION REPORT

List of articles citing

Efficient storage mechanisms for building better supercapacitors

DOI: 10.1038/nenergy.2016.70

Nature Energy, 2016, 1, .

**Source:** <https://exaly.com/paper-pdf/64354954/citation-report.pdf>

**Version:** 2024-04-27

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
1453	A Quantitative Model for Human Olfactory Receptors. <b>2012</b> ,		0
1452	A Perspective: Could Carbon Current Collectors Improve the Energy Density of Aqueous Alkaline Symmetric Supercapacitors?. <b>2016</b> , 3, 287-296		
1451	Carbon Dots/NiCo O Nanocomposites with Various Morphologies for High Performance Supercapacitors. <b>2016</b> , 12, 5927-5934		150
1450	Capacitance of Nanoporous Carbon-Based Supercapacitors Is a Trade-Off between the Concentration and the Separability of the Ions. <b>2016</b> , 7, 4015-4021		62
1449	Two tributaries of the electrical double layer. <b>2016</b> , 28, 460301		1
1448	Ultra-small vanadium nitride quantum dots embedded in porous carbon as high performance electrode materials for capacitive energy storage. <b>2016</b> , 333, 61-71		66
1447	Nano Day: Celebrating the Next Decade of Nanoscience and Nanotechnology. <b>2016</b> , 10, 9093-9103		56
1446	Boosting the Performance of Ionic-Liquid-Based Supercapacitors with Polar Additives. <b>2016</b> , 120, 24041-24047	29	
1445	Perovskite SrCo <sub>0.9</sub> Nb <sub>0.1</sub> O <sub>3</sub> as an Anion-Intercalated Electrode Material for Supercapacitors with Ultrahigh Volumetric Energy Density. <b>2016</b> , 128, 9728-9731		38
1444	Phase Transformation of Ce <sup>3+</sup> -Doped MnO <sub>2</sub> for Pseudocapacitive Electrode Materials. <b>2016</b> , 120, 20077-20081	1	
1443	Electrochemical kinetics of nanostructure LiFePO <sub>4</sub> /graphitic carbon electrodes. <b>2016</b> , 72, 10-14		16
1442	Increase in Capacitance by Subnanometer Pores in Carbon. <b>2016</b> , 1, 1262-1265		133
1441	Niobium carbide nanofibers as a versatile precursor for high power supercapacitor and high energy battery electrodes. <b>2016</b> , 4, 16003-16016		41
1440	Efficiency improvement using bis(trifluoromethane) sulfonamide lithium salt as a chemical additive in porphyrin based organic solar cells. <b>2016</b> , 8, 17953-17962		21
1439	Perovskite SrCo <sub>0.9</sub> Nb <sub>0.1</sub> O <sub>3</sub> as an Anion-Intercalated Electrode Material for Supercapacitors with Ultrahigh Volumetric Energy Density. <b>2016</b> , 55, 9576-9		68
1438	High Energy Density Hybrid Supercapacitor: In-Situ Functionalization of Vanadium-Based Colloidal Cathode. <b>2016</b> , 8, 29522-29528		37
1437	Hierarchical ternary Ni-Co-Se nanowires for high-performance supercapacitor device design. <b>2016</b> , 45, 19458-19465		82

1436	Prolifera-Green-Tide as Sustainable Source for Carbonaceous Aerogels with Hierarchical Pore to Achieve Multiple Energy Storage. <b>2016</b> , 26, 8487-8495		143
1435	Vanadium pentoxide/carbide-derived carbon core-shell hybrid particles for high performance electrochemical energy storage. <b>2016</b> , 4, 18899-18909		27
1434	Molecular Dynamics Simulations of the Influence of Drop Size and Surface Potential on the Contact Angle of Ionic-Liquid Droplets. <b>2016</b> , 120, 15244-15250		44
1433	Synthesis of hierarchical Co <sub>3</sub> O <sub>4</sub> @NiCo <sub>2</sub> O <sub>4</sub> core-shell nanosheets as electrode materials for supercapacitor application. <b>2017</b> , 700, 247-251		45
1432	Vanadia/Titania multilayer nanodecoration of carbon onions via atomic layer deposition for high performance electrochemical energy storage. <b>2017</b> , 5, 2792-2801		16
1431	Quantification of ion confinement and desolvation in nanoporous carbon supercapacitors with modelling and in situ X-ray scattering. <i>Nature Energy</i> , <b>2017</b> , 2,	62.3	157
1430	Vanadium nitride quantum dot/nitrogen-doped microporous carbon nanofibers electrode for high-performance supercapacitors. <b>2017</b> , 344, 1-10		99
1429	Nanoporous metal/metal-oxide composite prepared by one-step de-alloying AlNiCoYCu metallic glasses. <b>2017</b> , 703, 461-465		16
1428	Facile preparation of TiO <sub>2</sub> /C <sub>3</sub> N <sub>4</sub> hybrid materials with enhanced capacitive properties for high performance supercapacitors. <b>2017</b> , 702, 178-185		43
1427	Crystallization of transition metal oxides within 12 seconds. <b>2017</b> , 19, 1230-1238		23
1426	Battery-Supercapacitor Hybrid Devices: Recent Progress and Future Prospects. <b>2017</b> , 4, 1600539		912
1425	Oxygen-containing hierarchically porous carbon materials derived from wild jujube pit for high-performance supercapacitor. <b>2017</b> , 231, 417-428		110
1424	High performance asymmetric supercapacitor based on polypyrrole/graphene composite and its derived nitrogen-doped carbon nano-sheets. <b>2017</b> , 346, 120-127		91
1423	Facile synthesis of iron-doped hollow urchin-like MnO <sub>2</sub> for supercapacitors. <b>2017</b> , 52, 4852-4865		29
1422	Atomic Modulation of FeCo/Nitrogen-Carbon Bifunctional Oxygen Electrodes for Rechargeable and Flexible All-Solid-State Zinc-Air Battery. <b>2017</b> , 7, 1602420		505
1421	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. <b>2017</b> , 5, 5806-5812		42
1420	One-step hydrothermal synthesis of nitrogen doping graphene based cobalt oxide and its supercapacitive properties. <b>2017</b> , 705, 801-805		22
1419	Direct observation of ion dynamics in supercapacitor electrodes using in situ diffusion NMR spectroscopy. <i>Nature Energy</i> , <b>2017</b> , 2,	62.3	208

1418	Reversible Heating in Electric Double Layer Capacitors. <b>2017</b> , 118, 096001	36
1417	Low temperature reduction of graphene oxide film by ammonia solution and its application for high-performance supercapacitors. <b>2017</b> , 28, 10098-10105	14
1416	Unusual interconnected graphitized carbon nanosheets as the electrode of high-rate ionic liquid-based supercapacitor. <b>2017</b> , 119, 287-295	59
1415	Confinement Effects on an Electron Transfer Reaction in Nanoporous Carbon Electrodes. <b>2017</b> , 8, 1925-1931	26
1414	Transition from Battery to Pseudocapacitor Behavior via Structural Water in Tungsten Oxide. <b>2017</b> , 29, 3928-3937	110
1413	Three-dimensional holey-graphene/niobia composite architectures for ultrahigh-rate energy storage. <b>2017</b> , 356, 599-604	965
1412	Conjugated Microporous Polycarbazole Networks as Precursors for Nitrogen-Enriched Microporous Carbons for CO <sub>2</sub> Storage and Electrochemical Capacitors. <b>2017</b> , 29, 4885-4893	109
1411	Cobalt phosphide nanowire arrays grown on carbon cloth as novel electrode material for supercapacitors. <b>2017</b> , 66, 140-143	12
1410	Multiple Functional Biomass-Derived Activated Carbon Materials for Aqueous Supercapacitors, Lithium-Ion Capacitors and Lithium-Sulfur Batteries. <b>2017</b> , 35, 861-866	29
1409	Emerging 3D-Printed Electrochemical Energy Storage Devices: A Critical Review. <b>2017</b> , 7, 1700127	212
1408	Porous carbon derived from <i>Ailanthus altissima</i> with unique honeycomb-like microstructure for high-performance supercapacitors. <b>2017</b> , 41, 4281-4285	25
1407	A comprehensive review on unitized regenerative fuel cells: Crucial challenges and developments. <b>2017</b> , 42, 4415-4433	69
1406	Tuning pseudocapacitive and battery-like lithium intercalation in vanadium dioxide/carbon onion hybrids for asymmetric supercapacitor anodes. <b>2017</b> , 5, 13039-13051	34
1405	RuO <sub>2</sub> -coated vertical graphene hybrid electrodes for high-performance solid-state supercapacitors. <b>2017</b> , 5, 17293-17301	89
1404	A two-step hydrothermal synthesis approach to synthesize NiCo <sub>2</sub> S <sub>4</sub> /NiS hollow nanospheres for high-performance asymmetric supercapacitors. <b>2017</b> , 422, 597-606	33
1403	Needle-like CoMoO <sub>4</sub> with multi-modal porosity for pseudocapacitors. <b>2017</b> , 198, 258-265	12
1402	Exploring metal organic frameworks for energy storage in batteries and supercapacitors. <b>2017</b> , 20, 191-209	290
1401	Conductive Metal-Organic Framework Nanowire Array Electrodes for High-Performance Solid-State Supercapacitors. <b>2017</b> , 27, 1702067	325

1400	Nanoconfinement of redox reactions enables rapid zinc iodide energy storage with high efficiency. <b>2017</b> , 5, 12520-12527	54
1399	Designing Pseudocapacitance for NbO/Carbide-Derived Carbon Electrodes and Hybrid Devices. <b>2017</b> , 33, 9407-9415	56
1398	Rapid and Scalable Synthesis of Mo-Based Binary and Ternary Oxides for Electrochemical Applications. <b>2017</b> , 27, 1700928	22
1397	Balanced mesoporous nickle cobaltite-graphene and doped carbon electrodes for high-performance asymmetric supercapacitor. <b>2017</b> , 326, 401-410	26
1396	Ionic Liquids for Supercapacitor Applications. <b>2017</b> , 375, 63	82
1395	High-Performance Asymmetric Supercapacitor Designed with a Novel [email[protected]]2 Nanosheet Array and Nitrogen-Doped Carbon Nanosheet. <b>2017</b> , 5, 5951-5963	139
1394	Multi-responsive supercapacitors: Smart solution to store electrical energy. <b>2017</b> , 4, 41-57	25
1393	Novel sol-gel synthesis route of carbide-derived carbon composites for very high power density supercapacitors. <b>2017</b> , 320, 576-587	32
1392	High rate capability and long cycle-life of nickel oxide membrane electrode incorporated with nickel and coated with carbon layer via in-situ supporting of engineering plastic for energy storage application. <b>2017</b> , 710, 72-79	7
1391	Supercapacitor electrode materials with hierarchically structured pores from carbonization of MWCNTs and ZIF-8 composites. <b>2017</b> , 9, 2178-2187	136
1390	Progress in 3D Printing of Carbon Materials for Energy-Related Applications. <b>2017</b> , 29, 1603486	291
1389	Growth of Carbon Nanotubes on Electrospun Cellulose Fibers for High Performance Supercapacitors. <b>2017</b> , 164, A3220-A3228	18
1388	Surface modification by graphene oxide: An efficient strategy to improve the performance of activated carbon based supercapacitors. <b>2017</b> , 28, 2285-2289	7
1387	Ultraflexible and tailorable all-solid-state supercapacitors using polyacrylamide-based hydrogel electrolyte with high ionic conductivity. <b>2017</b> , 9, 18474-18481	54
1386	Hierarchical NiAl LDH nanotubes constructed via atomic layer deposition assisted method for high performance supercapacitors. <b>2017</b> , 255, 15-22	45
1385	Indole-based conjugated macromolecules as a redox-mediated electrolyte for an ultrahigh power supercapacitor. <b>2017</b> , 10, 2441-2449	49
1384	Nitrogen-Doped Porous Carbon Nanospheres from Natural Sepia Ink: Easy Preparation and Extraordinary Capacitive Performance. <b>2017</b> , 3, 895-901	13
1383	Redox-Enhanced Electrochemical Capacitors: Status, Opportunity, and Best Practices for Performance Evaluation. <b>2017</b> , 2, 2581-2590	112

- 1382 Asymmetric supercapacitors utilizing highly porous metal-organic framework derived Co<sub>3</sub>O<sub>4</sub> nanosheets grown on Ni foam and polyaniline hydrogel derived N-doped nanocarbon electrode materials. **2017**, 689, 162-168 12
- 1381 Ultracentrifugation: An effective novel route to ultrafast nanomaterials for hybrid supercapacitors. **2017**, 6, 120-126 6
- 1380 From capacitance-controlled to diffusion-controlled electrochromism in one-dimensional shape-tailored tungsten oxide nanocrystals. **2017**, 41, 634-645 41
- 1379 Single-Layered Mesoporous Carbon Sandwiched Graphene Nanosheets for High Performance Ionic Liquid Supercapacitors. **2017**, 121, 23947-23954 10
- 1378 Electrochemical double layer capacitors: What is next beyond the corner?. **2017**, 6, 115-119 24
- 1377 In situ nitrogen-doped mesoporous carbon nanofibers as flexible freestanding electrodes for high-performance supercapacitors. **2017**, 5, 23620-23627 76
- 1376 A novel Ni Coordination Supramolecular Network hybrid monolith of 3D graphene as electrode materials for supercapacitors. **2017**, 6, 164-172 9
- 1375 N-Doped Porous Carbon Nanofibers/Porous Silver Network Hybrid for High-Rate Supercapacitor Electrode. **2017**, 9, 30832-30839 42
- 1374 Elucidating the Importance of Pore Structure in Determining the Double-Layer Capacitance of Nanoporous Carbon Materials. **2017**, 121, 20555-20566 8
- 1373 Formation of Dandelion-Like Co<sub>3</sub>O<sub>4</sub>/CoWO<sub>4</sub> Heterojunctions for Enhanced Supercapacitive Performance. **2017**, 4, 3011-3017 13
- 1372 Metal Phosphides and Phosphates-based Electrodes for Electrochemical Supercapacitors. **2017**, 13, 1701530 197
- 1371 Quantitative Information about Electrosorption of Ionic Liquids in Carbon Nanopores from Electrochemical Dilatometry and Quartz Crystal Microbalance Measurements. **2017**, 121, 19120-19128 18
- 1370 Conducting-Polymer-Based Materials for Electrochemical Energy Conversion and Storage. **2017**, 29, 1703044 59
- 1369 The ideal porous structure of EDLC carbon electrodes with extremely high capacitance. **2017**, 9, 15643-15649 44
- 1368 Elucidating the Intercalation Pseudocapacitance Mechanism of MoS<sub>2</sub>-Carbon Monolayer Interoverlapped Superstructure: Toward High-Performance Sodium-Ion-Based Hybrid Supercapacitor. **2017**, 9, 32745-32755 118
- 1367 Expanded graphite supported Ni(OH)<sub>2</sub> composites for high performance supercapacitors. **2017**, 728, 222-230 24
- 1366 New insights and perspectives into biological materials for flexible electronics. **2017**, 46, 6764-6815 245
- 1365 Recent advances in chemical methods for activating carbon and metal oxide based electrodes for supercapacitors. **2017**, 5, 17151-17173 110

1364	Revitalizing carbon supercapacitor electrodes with hierarchical porous structures. <b>2017</b> , 5, 17705-17733	332
1363	Carbide-derived carbon beads with tunable nanopores from continuously produced polysilsesquioxanes for supercapacitor electrodes. <b>2017</b> , 1, 1588-1600	23
1362	Facile and sustainable synthesis of sodium lignosulfonate derived hierarchical porous carbons for supercapacitors with high volumetric energy densities. <b>2017</b> , 19, 3916-3926	111
1361	Cu/Co Bimetallic Oxide Quantum Dot Decorated Nitrogen-Doped Carbon Nanotubes: A High-Efficiency Bifunctional Oxygen Electrode for Zn/Air Batteries. <b>2017</b> , 27, 1701833	276
1360	Recent Advances in Designing and Fabricating Self-Supported Nanoelectrodes for Supercapacitors. <b>2017</b> , 4, 1700188	122
1359	The Origin of Superior Performance of Co(OH) <sub>2</sub> in Hybrid Supercapacitors. <b>2017</b> , 3, 26-28	31
1358	Three-dimensional graphene-based macrostructures for sustainable energy applications and climate change mitigation. <b>2017</b> , 90, 224-275	54
1357	Anchoring Ultrafine ZnFeO/C Nanoparticles on 3D ZnFeO Nanoflakes for Boosting Cycle Stability and Energy Density of Flexible Asymmetric Supercapacitor. <b>2017</b> , 9, 26016-26028	56
1356	Metallic Vanadium Disulfide Nanosheets as a Platform Material for Multifunctional Electrode Applications. <b>2017</b> , 17, 4908-4916	155
1355	Phytic acid-assisted electrochemically synthesized three-dimensional O, P-functionalized graphene monoliths with high capacitive performance. <b>2017</b> , 9, 12601-12608	13
1354	Engineering layer structure of MoS <sub>2</sub> -graphene composites with robust and fast lithium storage for high-performance Li-ion capacitors. <b>2017</b> , 9, 195-205	127
1353	Cation exchange formation of prussian blue analogue submicroboxes for high-performance Na-ion hybrid supercapacitors. <b>2017</b> , 39, 647-653	162
1352	Facile preparation of NiFe <sub>2</sub> O <sub>4</sub> /MoS <sub>2</sub> composite material with synergistic effect for high performance supercapacitor. <b>2017</b> , 726, 608-617	60
1351	Two-Dimensional Titanium Carbide MXene as a Capacitor-Type Electrode for Rechargeable Aqueous Li-Ion and Na-Ion Capacitor Batteries. <b>2017</b> , 4, 3018-3025	41
1350	S-Doped Porous Graphene Microspheres with Individual Robust Red-Blood-Cell-Like Microarchitecture for Capacitive Energy Storage. <b>2017</b> , 56, 9524-9532	24
1349	Investigation into the energy storage behaviour of layered MnO as a pseudo-capacitive electrode using operando Raman spectroscopy and a quartz crystal microbalance. <b>2017</b> , 19, 24689-24695	18
1348	Hierarchical CuCo <sub>2</sub> O <sub>4</sub> @nickel-cobalt hydroxides core/shell nanoarchitectures for high-performance hybrid supercapacitors. <b>2017</b> , 62, 1122-1131	90
1347	Popcorn-Derived Porous Carbon Flakes with an Ultrahigh Specific Surface Area for Superior Performance Supercapacitors. <b>2017</b> , 9, 30626-30634	170

1346	Graphene-based lithium ion capacitor with high gravimetric energy and power densities. <b>2017</b> , 363, 422-427	42
1345	Nitrogen and oxygen co-doped 3D nanoporous duct-like graphene@carbon nano-cage hybrid films for high-performance multi-style supercapacitors. <b>2017</b> , 5, 18535-18541	18
1344	Molecularly Stacking Manganese Dioxide/Titanium Carbide Sheets to Produce Highly Flexible and Conductive Film Electrodes with Improved Pseudocapacitive Performances. <b>2017</b> , 7, 1602834	109
1343	Nanoribbons and nanoscrolls intertwined three-dimensional vanadium oxide hydrogels for high-rate lithium storage at high mass loading level. <b>2017</b> , 40, 73-81	37
1342	Selective Charging Behavior in an Ionic Mixture Electrolyte-Supercapacitor System for Higher Energy and Power. <b>2017</b> , 139, 18681-18687	76
1341	Two-dimensional perovskite LaNiO <sub>3</sub> nanosheets with hierarchical porous structure for high-rate capacitive energy storage. <b>2017</b> , 258, 561-570	50
1340	Latest advances in supercapacitors: from new electrode materials to novel device designs. <b>2017</b> , 46, 6816-6854	1120
1339	Tunable porous structure of carbon nanosheets derived from puffed rice for high energy density supercapacitors. <b>2017</b> , 371, 148-155	73
1338	A solid state energy storage device with supercapacitorBattery hybrid design. <b>2017</b> , 5, 15266-15272	20
1337	Highly stable 3D porous heterostructures with hierarchically-coordinated octahedral transition metals for enhanced performance supercapacitors. <b>2017</b> , 39, 337-345	54
1336	Faradaic deionization of brackish and sea water via pseudocapacitive cation and anion intercalation into few-layered molybdenum disulfide. <b>2017</b> , 5, 15640-15649	117
1335	A ternary composite with manganese dioxide nanorods and graphene nanoribbons embedded in a polyaniline matrix for high-performance supercapacitors. <b>2017</b> , 7, 33591-33599	12
1334	Rational construction of 3D NiCo <sub>2</sub> O <sub>4</sub> @CoMoO <sub>4</sub> core/shell nanoarrays as a positive electrode for asymmetric supercapacitor. <b>2017</b> , 729, 716-723	31
1333	Atypical Properties of FIB-Patterned RuOx Nanosupercapacitors. <b>2017</b> , 2, 1734-1739	20
1332	All-SPEEK flexible supercapacitor exploiting laser-induced graphenization. <b>2017</b> , 4, 035012	64
1331	Graphitic carbon balanced between high plateau capacity and high rate capability for lithium ion capacitors. <b>2017</b> , 5, 15302-15309	66
1330	Graphene-Fiber-Based Supercapacitors Favor N-Methyl-2-pyrrolidone/Ethyl Acetate as the Spinning Solvent/Coagulant Combination. <b>2017</b> , 9, 24568-24576	29
1329	Rational design of coaxial MWCNT-COOH@NiCo <sub>2</sub> S <sub>4</sub> hybrid for supercapacitors. <b>2017</b> , 52, 9661-9672	15



1328	In Situ Measurement of Electrosorption-Induced Deformation Reveals the Importance of Micropores in Hierarchical Carbons. <b>2017</b> , 9, 23319-23324	25
1327	A Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> +AC/LiMn <sub>2</sub> O <sub>4</sub> +AC hybrid battery capacitor with good cycle performance. <b>2017</b> , 695, 1685-1690	24
1326	Engineering metal organic framework derived 3D nanostructures for high performance hybrid supercapacitors. <b>2017</b> , 5, 292-302	90
1325	Nanoclay assisted electrochemical exfoliation of pencil core to high conductive graphene thin-film electrode. <b>2017</b> , 487, 156-161	46
1324	Layered MoS <sub>2</sub> /PPy nanotube composites with enhanced performance for supercapacitors. <b>2017</b> , 28, 1777-1784	26
1323	Hierarchical graphene network sandwiched by a thin carbon layer for capacitive energy storage. <b>2017</b> , 113, 100-107	36
1322	Silica-grafted ionic liquids for revealing the respective charging behaviors of cations and anions in supercapacitors. <b>2017</b> , 8, 2188	73
1321	Special Issue: Materials for Electrochemical Capacitors and Batteries. <b>2017</b> , 10,	3
1320	The Influence of Anion Shape on the Electrical Double Layer Microstructure and Capacitance of Ionic Liquids-Based Supercapacitors by Molecular Simulations. <b>2017</b> , 22,	10
1319	Facile Synthesis of Flower-Like Copper-Cobalt Sulfide as Binder-Free Faradaic Electrodes for Supercapacitors with Improved Electrochemical Properties. <b>2017</b> , 7,	23
1318	Metal-Organic Framework (MOF) Derived Metal Oxides for Supercapacitors. <b>2017</b> , 165-192	5
1317	Fabrication of hybrid Co <sub>3</sub> O <sub>4</sub> /NiCo <sub>2</sub> O <sub>4</sub> nanosheets sandwiched by nanoneedles for high-performance supercapacitors using a novel electrochemical ion exchange. <b>2017</b> , 60, 1168-1178	23
1316	High performance asymmetric capacitive mixing with oppositely charged carbon electrodes for energy production from salinity differences. <b>2017</b> , 5, 20374-20380	18
1315	Oxygen and Nitrogen Co-enriched Sustainable Porous Carbon Hollow Microspheres from Sodium Lignosulfonate for Supercapacitors with High Volumetric Energy Densities. <b>2018</b> , 5, 1306-1320	29
1314	Synthesis of a Novel Interconnected 3D Pore Network Algal Biochar Constituting Iron Nanoparticles Derived from a Harmful Marine Biomass as High-Performance Asymmetric Supercapacitor Electrodes. <b>2018</b> , 6, 4746-4758	78
1313	Hierarchical Fabric Decorated with Carbon Nanowire/Metal Oxide Nanocomposites for 1.6 V Wearable Aqueous Supercapacitors. <b>2018</b> , 8, 1703454	112
1312	Sustainable nitrogen-containing hierarchical porous carbon spheres derived from sodium lignosulfonate for high-performance supercapacitors. <b>2018</b> , 132, 280-293	116
1311	Unusual carbon nanomesh constructed by interconnected carbon nanocages for ionic liquid-based supercapacitor with superior rate capability. <b>2018</b> , 342, 474-483	48

1310	Facile preparation of porous nickel oxide membrane for flexible supercapacitors electrode via phase-separation method of polymer. <b>2018</b> , 103, 25-31	12
1309	Tunable synthesis of nanocarbon architectures and their application in advanced symmetric supercapacitors. <b>2018</b> , 443, 291-300	21
1308	One-step production of O-N-S co-doped three-dimensional hierarchical porous carbons for high-performance supercapacitors. <b>2018</b> , 47, 547-555	374
1307	Nanocarbon-Based Materials for Flexible All-Solid-State Supercapacitors. <b>2018</b> , 30, e1705489	248
1306	Valence-Tuned Lithium Titanate Nanopowder for High-Rate Electrochemical Energy Storage. <b>2018</b> , 1, 11-26	16
1305	Electrochemical characterization of laser-carbonized polyacrylonitrile nanofiber nonwovens. <b>2018</b> , 135, 46398	4
1304	Pseudocapacitive Energy Storage in Schiff Base Polymer with Salphen-Type Ligands. <b>2018</b> , 122, 5325-5333	19
1303	Blue Energy and Desalination with Nanoporous Carbon Electrodes: Capacitance from Molecular Simulations to Continuous Models. <b>2018</b> , 8,	15
1302	Ion Sieving Effects in Chemically Tuned Pillared Graphene Materials for Electrochemical Capacitors. <b>2018</b> , 30, 3040-3047	23
1301	Application of Poly(3-hexylthiophene-2,5-diyl) as a Protective Coating for High Rate Cathode Materials. <b>2018</b> , 30, 2589-2599	31
1300	The Concept of "Noble, Heteroatom-Doped Carbons," Their Directed Synthesis by Electronic Band Control of Carbonization, and Applications in Catalysis and Energy Materials. <b>2018</b> , 30, e1706836	102
1299	Self-Activating, Capacitive Anion Intercalation Enables High-Power Graphite Cathodes. <b>2018</b> , 30, e1800533	86
1298	Scalable Water-Based Production of Highly Conductive 2D Nanosheets with Ultrahigh Volumetric Capacitance and Rate Capability. <b>2018</b> , 8, 1800227	25
1297	Construction of hierarchical NiCo <sub>2</sub> S <sub>4</sub> nanowires on 3D biomass carbon for high-performance supercapacitors. <b>2018</b> , 29, 9573-9581	6
1296	A novel porous carbon material made from wild rice stem and its application in supercapacitors. <b>2018</b> , 213, 267-276	37
1295	Extraordinary pseudocapacitive energy storage triggered by phase transformation in hierarchical vanadium oxides. <b>2018</b> , 9, 1375	77
1294	Boosting supercapacitive performance of ultrathin mesoporous NiCo <sub>2</sub> O <sub>4</sub> nanosheet arrays by surface sulfation. <b>2018</b> , 6, 8742-8749	20
1293	Asphalt-Derived Hierarchically Porous Carbon with Superior Electrode Properties for Capacitive Storage Devices. <b>2018</b> , 5, 1474-1483	16

1292	Polystyrene activated linear tube carbon nanofiber for durable and high-performance supercapacitors. <b>2018</b> , 345, 113-122		26
1291	One-step synthesis of 2D-layered carbon wrapped transition metal nitrides from transition metal carbides (MXenes) for supercapacitors with ultrahigh cycling stability. <b>2018</b> , 54, 2755-2758		45
1290	Materials for supercapacitors: When Li-ion battery power is not enough. <b>2018</b> , 21, 419-436		234
1289	Scalable and sustainable synthesis of carbon microspheres via a purification-free strategy for sodium-ion capacitors. <b>2018</b> , 379, 33-40		32
1288	Recent Advances in Layered Ti C T MXene for Electrochemical Energy Storage. <b>2018</b> , 14, e1703419		478
1287	Decoupling electron and ion storage and the path from interfacial storage to artificial electrodes. <i>Nature Energy</i> , <b>2018</b> , 3, 102-108	62.3	49
1286	Towards flexible solid-state supercapacitors for smart and wearable electronics. <b>2018</b> , 47, 2065-2129		936
1285	One-pot synthesis of porous nickel-manganese sulfides with tuneable compositions for high-performance energy storage. <b>2018</b> , 85, 629-637		14
1284	Design of Supercapacitor Electrodes Using Molecular Dynamics Simulations. <b>2018</b> , 10, 33		49
1283	Two-Dimensional Molybdenum Carbide (MXene) with Divacancy Ordering for Brackish and Seawater Desalination via Cation and Anion Intercalation. <b>2018</b> , 6, 3739-3747		127
1282	Ion-ion correlations across and between electrified graphene layers. <b>2018</b> , 148, 193812		22
1281	Achieving Insertion-Like Capacity at Ultrahigh Rate via Tunable Surface Pseudocapacitance. <b>2018</b> , 30, e1706640		154
1280	Nanocomposites based on hierarchical porous carbon fiber@vanadium nitride nanoparticles as supercapacitor electrodes. <b>2018</b> , 47, 4128-4138		40
1279	A Few Atoms Thick Nickel-Cobalt Oxides Mesoporous Nanosheets and Their Arrays on Ni Foam for Supercapacitors with Ultra-Long Cycling Lifespan. <b>2018</b> , 165, A448-A455		12
1278	Inhibition of Redox Behaviors in Hierarchically Structured Manganese Cobalt Phosphate Supercapacitor Performance by Surface Trivalent Cations. <b>2018</b> , 3, 1718-1725		18
1277	Functionalizing New Intercalation Chemistry for Sub-Nanometer-Scaled Interlayer Engineering of 2D Transition Metal Oxides and Chalcogenides. <b>2018</b> , 5, 1701385		14
1276	Boosted crystalline/amorphous Fe <sub>2</sub> O <sub>3</sub> -core/shell heterostructure for flexible solid-state pseudocapacitors in large scale. <b>2018</b> , 45, 390-397		167
1275	Recent advances in direct ink writing of electronic components and functional devices. <b>2018</b> , 3, 65-86		42

1274	Surface oxo-functionalized hard carbon spheres enabled superior high-rate capability and long-cycle stability for Li-ion storage. <b>2018</b> , 260, 430-438	14
1273	Three-dimensional porous graphene-like sheets synthesized from biocarbon via low-temperature graphitization for a supercapacitor. <b>2018</b> , 20, 694-700	133
1272	Electrodeposition of hydrated vanadium pentoxide on nanoporous carbon cloth for hybrid energy storage. <b>2018</b> , 2, 577-588	23
1271	Carbon materials with hierarchical porosity: Effect of template removal strategy and study on their electrochemical properties. <b>2018</b> , 130, 680-691	55
1270	Nickel-foam-supported ruthenium oxide/graphene sandwich composite constructed via one-step electrodeposition route for high-performance aqueous supercapacitors. <b>2018</b> , 439, 612-622	19
1269	Biomass-derived nitrogen-doped porous carbon with superior capacitive performance and high CO <sub>2</sub> capture capacity. <b>2018</b> , 266, 161-169	68
1268	Pseudocapacitive material with 928 mAh cm <sup>3</sup> particle-level volumetric specific capacity enabled by continuous phase-transition. <b>2018</b> , 338, 211-217	15
1267	Electrochemical investigation of magnetite-carbon nanocomposite in situ grown on nickel foam as a high-performance binderless pseudocapacitor. <b>2018</b> , 22, 2597-2604	8
1266	Co-doped Ni <sub>3</sub> S <sub>2</sub> @CNT arrays anchored on graphite foam with a hierarchical conductive network for high-performance supercapacitors and hydrogen evolution electrodes. <b>2018</b> , 6, 10490-10496	69
1265	Computer simulation studies of nanoporous carbon-based electrochemical capacitors. <b>2018</b> , 9, 81-86	13
1264	High-performance solid-state flexible supercapacitor based on reduced graphene oxide/hierarchical core-shell Ag nanowire@NiAl layered double hydroxide film electrode. <b>2018</b> , 348, 338-349	51
1263	An efficient two-step approach for improvement of graphene aerogel characteristics in preparation of supercapacitor electrodes. <b>2018</b> , 17, 465-473	22
1262	Enhancing Electrochemical Performance of Graphene Fiber-Based Supercapacitors by Plasma Treatment. <b>2018</b> , 10, 13652-13659	56
1261	Toward the Experimental Understanding of the Energy Storage Mechanism and Ion Dynamics in Ionic Liquid Based Supercapacitors. <b>2018</b> , 8, 1800026	92
1260	Suitability of representative electrochemical energy storage technologies for ramp-rate control of photovoltaic power. <b>2018</b> , 384, 396-407	15
1259	O-Vacancy-enriched NiO hexagonal platelets fabricated on Ni foam as a self-supported electrode for extraordinary pseudocapacitance. <b>2018</b> , 6, 7099-7106	49
1258	Smart design and construction of nanoflake-like MnO <sub>2</sub> /SiO <sub>2</sub> hierarchical microcapsules containing phase change material for in-situ thermal management of supercapacitors. <b>2018</b> , 164, 311-328	43
1257	Symmetric Sodium-Ion Capacitor Based on NaMnO Nanorods for Low-Cost and High-Performance Energy Storage. <b>2018</b> , 10, 11689-11698	49

1256	Metal-organic framework-derived hollow CoS nanobox for high performance electrochemical energy storage. <b>2018</b> , 341, 618-627	74
1255	Electrochemical impedance spectroscopy on the capacitance of ionic liquid-acetonitrile electrolytes. <b>2018</b> , 270, 352-362	14
1254	Cactus-Like NiCoP/NiCo-OH 3D Architecture with Tunable Composition for High-Performance Electrochemical Capacitors. <b>2018</b> , 28, 1800036	206
1253	A Flexible and Ultrahigh Energy Density Capacitor via Enhancing Surface/Interface of Carbon Cloth Supported Colloids. <b>2018</b> , 8, 1703329	51
1252	Our Contributions in Nanochemistry for Antibiosis, Electrocatalyst and Energy Storage Materials. <b>2018</b> , 18, 91-104	12
1251	One-pot synthesis of nitrogen-doped ordered mesoporous carbon spheres for high-rate and long-cycle life supercapacitors. <b>2018</b> , 127, 85-92	278
1250	High-frequency supercapacitors based on doped carbon nanostructures. <b>2018</b> , 126, 305-312	47
1249	In-situ space-confined catalysis for fabricating 3D mesoporous graphene and their capacitive properties. <b>2018</b> , 433, 568-574	12
1248	Template-free synthesis of multifunctional carbonaceous microcone forests. <b>2018</b> , 428, 66-72	1
1247	Bubble-supported engineering of hierarchical CuCo <sub>2</sub> S <sub>4</sub> hollow spheres for enhanced electrochemical performance. <b>2018</b> , 6, 5265-5270	72
1246	Colloidal Supercapattery: Redox Ions in Electrode and Electrolyte. <b>2018</b> , 18, 282-292	32
1245	Porous worm-like NiMoO <sub>4</sub> coaxially decorated electrospun carbon nanofiber as binder-free electrodes for high performance supercapacitors and lithium-ion batteries. <b>2018</b> , 434, 49-56	48
1244	Thiourea aldehyde resin-based carbon/graphene composites for high-performance supercapacitors. <b>2018</b> , 22, 113-121	3
1243	Biochar-based carbons with hierarchical micro-meso-macro porosity for high rate and long cycle life supercapacitors. <b>2018</b> , 376, 82-90	177
1242	Reduced graphene oxide-coated mulberry-shaped Fe <sub>2</sub> O <sub>3</sub> nanoparticles composite as high performance electrode material for supercapacitors. <b>2018</b> , 738, 89-96	18
1241	Selective observation of charge storing ions in supercapacitor electrode materials. <b>2018</b> , 89, 45-49	7
1240	Ultra-high-rate, ultra-long-life asymmetric supercapacitors based on few-crystalline, porous NiCo <sub>2</sub> O <sub>4</sub> nanosheet composites. <b>2018</b> , 6, 1412-1422	56
1239	Hierarchically porous sheath-core graphene-based fiber-shaped supercapacitors with high energy density. <b>2018</b> , 6, 896-907	62

1238	Hierarchical Porous Nitrogen-Doped Carbon Constructed of Crumpled and Interconnected Graphene-Like Nanosheets for Sodium-Ion Batteries and All-Solid-State Symmetric Supercapacitors. <b>2018</b> , 5, 546-557	18
1237	Flexible metallic fabric supercapacitor based on graphene/polyaniline composites. <b>2018</b> , 259, 968-974	75
1236	Hydrothermal encapsulation of VO(A) nanorods in amorphous carbon by carbonization of glucose for energy storage devices. <b>2018</b> , 47, 452-464	152
1235	Three-dimensional interconnected MnCo <sub>2</sub> O <sub>4</sub> nanosheets@MnMoO <sub>4</sub> nanosheets core-shell nanoarrays on Ni foam for high-performance supercapacitors. <b>2018</b> , 336, 64-73	57
1234	Hydrothermal growth of magnesium ferrite rose nanoflowers on Nickel foam; application in high-performance asymmetric supercapacitors. <b>2018</b> , 29, 650-657	18
1233	Anomalous Interfacial Structuring of a Non-Halogenated Ionic Liquid: Effect of Substrate and Temperature. <b>2018</b> , 2, 60	5
1232	Nanoionic transport and electric double layer formation at the electrode/polymer interface for high-performance supercapacitors. <b>2018</b> , 6, 23650-23658	12
1231	Introducing catalytic gasification into chemical activation for the conversion of natural coal into hierarchically porous carbons with broadened pore size for enhanced supercapacitive utilization.. <b>2018</b> , 8, 37880-37889	8
1230	Konjac Sponge Derived Carbon Flakes with Optimized Pore Structure for High-Performance Supercapacitor. <b>2018</b> , 2018, 1-12	3
1229	Nanostructure-induced performance degradation of WO <sub>3</sub> /HO for energy conversion and storage devices. <b>2018</b> , 9, 2845-2854	1
1228	Introduction: Energy technologies and their role in our life. <b>2018</b> , 1-16	2
1227	An Investigation of the Electrochemical Behaviors of M <sub>0.85</sub> Se (M=Ni, Co) Materials for Alkaline Aqueous Battery. <b>2018</b> , 165, A3723-A3731	4
1226	In Situ Constructing Flexible V <sub>2</sub> O <sub>5</sub> @GO Composite Thin Film Electrode for Superior Electrochemical Energy Storage. <b>2018</b> , 165, A3738-A3747	15
1225	Unveiling the Effect of the Structure of Carbon Material on the Charge Storage Mechanism in MoS <sub>2</sub> -Based Supercapacitors. <b>2018</b> , 3, 16301-16308	47
1224	Minimizing the electrosorption of water from humid ionic liquids on electrodes. <b>2018</b> , 9, 5222	54
1223	Electrochemical Performance of Iron Oxide Nanoflakes on Carbon Cloth under an External Magnetic Field. <b>2018</b> , 8, 939	4
1222	Fast and Scalable Hydrodynamic Synthesis of MnO/Defect-Free Graphene Nanocomposites with High Rate Capability and Long Cycle Life. <b>2018</b> , 10, 35250-35259	25
1221	Salt concentration and charging velocity determine ion charge storage mechanism in nanoporous supercapacitors. <b>2018</b> , 9, 4145	53

1220	Influence of Fe doping on the crystal structure, electronic structure and supercapacitance performance of birnessite [(Na, K) <sub>x</sub> (Mn <sup>4+</sup> , Mn <sup>3+</sup> ) <sub>2</sub> O <sub>4</sub> · $\frac{1}{2}$ H <sub>2</sub> O] with high areal mass loading. <b>2018</b> , 291, 31-40	6
1219	Toward High-Voltage/Energy Symmetric Supercapacitors via Interface Engineering. <b>2018</b> ,	1
1218	Symmetric supercapacitor performances of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> decorated polyaniline nanocomposite. <b>2018</b> , 292, 558-567	19
1217	Capacitive Performance of Water-in-Salt Electrolytes in Supercapacitors: A Simulation Study. <b>2018</b> , 122, 23917-23924	31
1216	Discarded Biomass Derived Ordered Hierarchical Porous WO <sub>3</sub> as Advanced Electrochemical Materials. <b>2018</b> , 6, 13897-13906	7
1215	Graphene/transition metal dichalcogenides hybrid supercapacitor electrode: status, challenges, and perspectives. <b>2018</b> , 29, 502001	30
1214	Transformation of Freon to 3D graphene frameworks for high-rate supercapacitors with high capacity retention. <b>2018</b> , 405, 1-6	10
1213	Charging dynamics of an individual nanopore. <b>2018</b> , 9, 4203	28
1212	Storing Energy in Biodegradable Electrochemical Supercapacitors. <b>2018</b> , 3, 13869-13875	29
1211	In Situ Tracking of Partial Sodium Desolvation of Materials with Capacitive, Pseudocapacitive, and Battery-like Charge/Discharge Behavior in Aqueous Electrolytes. <b>2018</b> , 34, 13132-13143	15
1210	Facile and scalable production of amorphous nickel borate for high performance hybrid supercapacitors. <b>2018</b> , 6, 19689-19695	26
1209	Increasing the stability of very high potential electrical double layer capacitors by operando passivation. <b>2018</b> , 402, 53-61	10
1208	Hierarchical nanostructure-tuned super-high electrochemical stability of nickel cobalt sulfide. <b>2018</b> , 6, 19788-19797	13
1207	Puzzles and confusions in supercapacitor and battery: Theory and solutions. <b>2018</b> , 401, 213-223	133
1206	Storing electricity as chemical energy: beyond traditional electrochemistry and double-layer compression. <b>2018</b> , 11, 3069-3074	24
1205	Self-Supporting CuCo <sub>2</sub> S <sub>4</sub> Microspheres for High-Performance Flexible Asymmetric Solid-State Supercapacitors. <b>2018</b> , 2018, 4711-4719	19
1204	Surfaces/Interfaces Modification for Vacancies Enhancing Lithium Storage Capability of CuO Ultrasmall Nanocrystals. <b>2018</b> , 10, 35137-35144	15
1203	Design and Mechanisms of Asymmetric Supercapacitors. <b>2018</b> , 118, 9233-9280	1396

1202	Adjusting the yolk-shell structure of carbon spheres to boost the capacitive K <sup>+</sup> storage ability. <b>2018</b> , 6, 23318-23325	54
1201	Electrochemical Material Processing via Continuous Charge-Discharge Cycling: Enhanced Performance upon Cycling for Porous LaMnO <sub>3</sub> Perovskite Supercapacitor Electrodes. <b>2018</b> , 5, 3723-3730	13
1200	Hollow mesoporous carbon spheres enwrapped by small-sized and ultrathin nickel hydroxide nanosheets for high-performance hybrid supercapacitors. <b>2018</b> , 402, 43-52	32
1199	Sustainable Utilization of Biomass Refinery Wastes for Accessing Activated Carbons and Supercapacitor Electrode Materials. <b>2018</b> , 11, 3599-3608	55
1198	Boron acid catalyzed synthesis porous graphene sponge for high-performance electrochemical capacitive storage. <b>2018</b> , 89, 114-121	20
1197	A High-Performance Sodium-Ion Hybrid Capacitor Constructed by Metal-Organic Framework-Derived Anode and Cathode Materials. <b>2018</b> , 28, 1800757	151
1196	Understanding of the Ultrastable K-Ion Storage of Carbonaceous Anode. <b>2018</b> , 28, 1801989	133
1195	Conductive Hydrogels as Smart Materials for Flexible Electronic Devices. <b>2018</b> , 24, 16930-16943	123
1194	Holey graphene-wrapped porous TiNb <sub>2</sub> O <sub>6</sub> microparticles as high-performance intercalation pseudocapacitive anode materials for lithium-ion capacitors. <b>2018</b> , 10, 406-416	46
1193	Hierarchically porous N-doped carbon derived from supramolecular assembled polypyrrole as a high performance supercapacitor electrode material.. <b>2018</b> , 8, 18714-18722	12
1192	In situ generation of CoS <sub>1.097</sub> nanoparticles on S/N co-doped graphene/carbonized foam for mechanically tough and flexible all solid-state supercapacitors. <b>2018</b> , 6, 11966-11977	40
1191	Construction of hierarchical zinc cobalt sulfide@nickel sulfide core-shell nanosheet arrays for high-performance asymmetric solid-state supercapacitors. <b>2018</b> , 349, 397-407	30
1190	Fabrication of hollow carbon spheres with robust and significantly enhanced capacitance behaviors. <b>2018</b> , 53, 12310-12321	7
1189	Rational Design of Hierarchically Core-Shell Structured Ni S @NiMoO Nanowires for Electrochemical Energy Storage. <b>2018</b> , 14, e1800791	74
1188	Template-free synthesis of porous V <sub>2</sub> O <sub>5</sub> flakes as a battery-type electrode material with high capacity for supercapacitors. <b>2018</b> , 553, 317-326	16
1187	Recent Progress in Biomass-Derived Electrode Materials for High Volumetric Performance Supercapacitors. <b>2018</b> , 8, 1801007	151
1186	Coarse-Grained Force Field for Imidazolium-Based Ionic Liquids. <b>2018</b> , 14, 3252-3261	23
1185	Sodium storage in a promising MoS-carbon anode: elucidating structural and interfacial transitions in the intercalation process and conversion reactions. <b>2018</b> , 10, 11165-11175	24



1184	Interfacial Constructing Flexible VO@Polypyrrole Core-Shell Nanowire Membrane with Superior Supercapacitive Performance. <b>2018</b> , 10, 18816-18823	89
1183	Facile Synthesis of Flowerlike Bi <sub>2</sub> MoO <sub>6</sub> Hollow Microspheres for High-Performance Supercapacitors. <b>2018</b> , 6, 7355-7361	37
1182	Identifying the Origin and Contribution of Surface Storage in TiO (B) Nanotube Electrode by In Situ Dynamic Valence State Monitoring. <b>2018</b> , 30, e1802200	72
1181	Charge-transfer mediated nanopore-controlled pyrene derivatives/graphene colloids. <b>2018</b> , 139, 512-521	23
1180	High-Surface-Area Porous Carbon Flakes Derived from Boat-Fruited Sterculia Seeds for High-Energy-Density Aqueous Symmetric Supercapacitors. <b>2018</b> , 6, 9822-9830	28
1179	Pseudocapacitive storage via micropores in high-surface area molybdenum nitrides. <b>2018</b> , 51, 122-127	25
1178	Protecting lithium anode with LiNO <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> /PVDF-coated separator for lithium-sulfur batteries. <b>2018</b> , 765, 544-550	27
1177	High-performance supercapacitors based on superior Co <sub>3</sub> O <sub>4</sub> nanorods electrode for integrated energy harvesting-storage system. <b>2018</b> , 282, 905-912	15
1176	Confined Redox Reactions of Iodide in Carbon Nanopores for Fast and Energy-Efficient Desalination of Brackish Water and Seawater. <b>2018</b> , 11, 3460-3472	30
1175	Breaking the Limits of Ionic Liquid-Based Supercapacitors: Mesoporous Carbon Electrodes Functionalized with Manganese Oxide Nanosplotches for Dense, Stable, and Wide-Temperature Energy Storage. <b>2018</b> , 28, 1801298	60
1174	Fast and reversible redox reaction of polyNi(salphen)@reduced graphene oxide/multiwall carbon nanotubes composite for supercapacitors. <b>2018</b> , 284, 355-365	9
1173	Sulfidation of NiFe-layered double hydroxides as novel negative electrodes for supercapacitors with enhanced performance. <b>2018</b> , 768, 635-643	19
1172	Metal-organic coordination polymer/multi-walled carbon nanotubes composites to prepare N-doped hierarchical porous carbon for high performance supercapacitors. <b>2018</b> , 284, 69-79	17
1171	Cation-Disordered Li <sub>3</sub> VO <sub>4</sub> : Reversible Li Insertion/Deinsertion Mechanism for Quasi Li-Rich Layered Li <sub>1+x</sub> [V <sub>1/2</sub> Li <sub>1/2</sub> ]O <sub>2</sub> (x = 0.1). <b>2018</b> , 30, 4926-4934	16
1170	Influence of Nitrogen-Doping for Carbide-Derived Carbons on the Supercapacitor Performance in an Organic Electrolyte and an Ionic Liquid. <b>2018</b> , 1, 135-148	13
1169	Structural supercapacitors using a solid resin electrolyte with carbonized electrospun cellulose/carbon nanotube electrodes. <b>2018</b> , 53, 14598-14607	21
1168	Electrolyte cation length influences electrosorption and dynamics in porous carbon supercapacitors. <b>2018</b> , 283, 882-893	15
1167	Chaotic printing: using chaos to fabricate densely packed micro- and nanostructures at high resolution and speed. <b>2018</b> , 5, 813-822	20

1166	Three-Dimensional Honeycomb-Like Porous Carbon with Both Interconnected Hierarchical Porosity and Nitrogen Self-Doping from Cotton Seed Husk for Supercapacitor Electrode. <b>2018</b> , 8,	36
1165	Self-assembled pancake-like hexagonal tungsten oxide with ordered mesopores for supercapacitors. <b>2018</b> , 6, 15330-15339	35
1164	Highly porous polyimide-derived carbon aerogel as advanced three-dimensional framework of electrode materials for high-performance supercapacitors. <b>2018</b> , 283, 1763-1772	29
1163	Surface modification of biomass-derived hard carbon by grafting porous carbon nanosheets for high-performance supercapacitors. <b>2018</b> , 6, 15954-15960	159
1162	Nitrogen-doped flexible carbon cloth for durable metal free electrocatalyst for overall water splitting. <b>2018</b> , 347, 407-413	22
1161	Facile synthesis of MnO <sub>2</sub> grown on nitrogen-doped carbon nanotubes for asymmetric supercapacitors with enhanced electrochemical performance. <b>2018</b> , 393, 135-144	50
1160	Cellulose-derived hierarchical porous carbon for high-performance flexible supercapacitors. <b>2018</b> , 140, 139-147	59
1159	Facile method for synthesis of FeCo(OH) <sub>2</sub> and their supercapacitor properties. <b>2018</b> , 35, 220-230	1
1158	A nitrogen-doped graphene cathode for high-capacitance aluminum-ion hybrid supercapacitors. <b>2018</b> , 42, 15684-15691	16
1157	Ultra-Stable Asymmetric Supercapacitors Constructed by In-Situ Electro-Oxidation Activated Ni@CNTs Composites. <b>2018</b> , 5, 3213-3221	4
1156	Bistacked Titanium Carbide (MXene) Anodes for Hybrid Sodium-Ion Capacitors. <b>2018</b> , 3, 2094-2100	103
1155	Charge Me Slowly, I Am in a Hurry: Optimizing Charge-Discharge Cycles in Nanoporous Supercapacitors. <b>2018</b> , 12, 9733-9741	54
1154	High-performance asymmetric supercapacitors based on monodisperse MnO nanocrystals with high energy densities. <b>2018</b> , 10, 15926-15931	42
1153	Nitrogen Codoped Unique Carbon with 0.4 nm Ultra-Micropores for Ultrahigh Areal Capacitance Supercapacitors. <b>2018</b> , 14, e1801897	32
1152	Novel collagen waste derived Mn-doped nitrogen-containing carbon for supercapacitors. <b>2018</b> , 285, 292-300	24
1151	Tailoring the Structure of Carbon Nanomaterials toward High-End Energy Applications. <b>2018</b> , 30, e1802104	65
1150	Recent Progress on Two-Dimensional Nanoflake Ensembles for Energy Storage Applications. <b>2018</b> , 10, 66	49
1149	Elaborate construction of N/S-co-doped carbon nanobowls for ultrahigh-power supercapacitors. <b>2018</b> , 6, 17653-17661	78

1148	Hydrothermal Synthesis of Co-Doped NiSe Nanowire for High-Performance Asymmetric Supercapacitors. <b>2018</b> , 11,	20
1147	One-step preparation of one dimensional nickel ferrites/graphene composites for supercapacitor electrode with excellent cycling stability. <b>2018</b> , 396, 41-48	49
1146	Contribution of surface oxygen groups to the measured capacitance of porous carbon supercapacitors. <b>2018</b> , 395, 271-279	47
1145	Towards enhanced energy density of graphene-based supercapacitors: Current status, approaches, and future directions. <b>2018</b> , 396, 182-206	79
1144	Electrodes and hydrogel electrolytes based on cellulose: fabrication and characterization as EDLC components. <b>2018</b> , 22, 3035-3047	32
1143	2D-Ti3C2 as hard, conductive substrates to enhance the electrochemical performance of MnO2 for supercapacitor applications. <b>2018</b> , 44, 17539-17543	24
1142	Influence of porosity parameters and electrolyte chemical composition on the power densities of non-aqueous and ionic liquid based supercapacitors. <b>2018</b> , 283, 931-948	26
1141	High voltage asymmetric hybrid supercapacitors using lithium- and sodium-containing ionic liquids. <b>2019</b> , 16, 391-399	36
1140	A novel functional material of Co3O4/Fe2O3 nanocubes derived from a MOF precursor for high-performance electrochemical energy storage and conversion application. <b>2019</b> , 355, 336-340	105
1139	Synthesis of amorphous nickel-cobalt-manganese hydroxides for supercapacitor-battery hybrid energy storage system. <b>2019</b> , 17, 194-203	161
1138	Synthesis of Nanoporous Carbon and Their Application to Fuel Cell and Capacitor. <b>2019</b> , 135-158	
1137	Nitrogen-doped hierarchical porous carbons from used cigarette filters for supercapacitors. <b>2019</b> , 95, 315-323	16
1136	Amino functionalization optimizes potential distribution: A facile pathway towards high-energy carbon-based aqueous supercapacitors. <b>2019</b> , 65, 103987	39
1135	Fast Energy Storage in Two-Dimensional MoO Enabled by Uniform Oriented Tunnels. <b>2019</b> , 13, 9091-9099	24
1134	Surface Sulfur Vacancies Induced the Direct Growth of Mesoporous MnS Nanosheets on Three-Dimensional Reduced Graphene Oxide with Ultrahigh Capacity as Electrode Materials for Supercapacitors. <b>2019</b> , 2, 6599-6607	17
1133	Metal-organic-framework-derived hollow polyhedrons of prussian blue analogues for high power grid-scale energy storage. <b>2019</b> , 321, 134671	15
1132	Why Pore Width of Nanoporous Carbon Materials Determines the Preferred Solvated States of Alkaline Cations: A Density Functional Theory Calculation Study. <b>2019</b> , 123, 21457-21466	8
1131	Organic-inorganic all-pseudocapacitive asymmetric energy storage devices. <b>2019</b> , 65, 104022	34

1130	A New View of Supercapacitors: Integrated Supercapacitors. <b>2019</b> , 9, 1901081	155
1129	Self-assembled nanostructures in ionic liquids facilitate charge storage at electrified interfaces. <b>2019</b> , 18, 1350-1357	90
1128	N-doped porous carbon film electrodes for electrochemical capacitor, made by electrospray of sol precursors. <b>2019</b> , 154, 33-41	9
1127	Hollow-tubular porous carbon derived from cotton with high productivity for enhanced performance supercapacitor. <b>2019</b> , 438, 226936	43
1126	Flower-like Ni <sub>0.8</sub> B <sub>0.5</sub> Se nanosheets with enhanced performance toward hybrid supercapacitor. <b>2019</b> , 321, 134701	14
1125	Novel Ni <sub>6</sub> MnO <sub>8</sub> /NiMnO <sub>3</sub> composite as a highly stable electrode material for supercapacitors. <b>2019</b> , 255, 126509	3
1124	A directly grown pristine Cu-CAT metal-organic framework as an anode material for high-energy sodium-ion capacitors. <b>2019</b> , 55, 11207-11210	28
1123	Block copolymer-based porous carbons for supercapacitors. <b>2019</b> , 7, 23476-23488	46
1122	Carbonized wood-supported hollow NiCo <sub>2</sub> S <sub>4</sub> eccentric spheres for high-performance hybrid supercapacitors. <b>2019</b> , 811, 151858	9
1121	A moisture absorbing gel electrolyte enables aqueous and flexible supercapacitors operating at high temperatures. <b>2019</b> , 7, 20398-20404	41
1120	Assembly of hybrid electrode rGO/CNC/MnO <sub>2</sub> for a high performance supercapacitor. <b>2019</b> , 1, 100007	2
1119	Design and synthesis of electrode materials with both battery-type and capacitive charge storage. <b>2019</b> , 22, 235-255	83
1118	Electrospun Carbon Fibers Replace Metals as a Current Collector in Supercapacitors. <b>2019</b> , 2, 5724-5733	5
1117	Biowaste-Derived Porous Carbon with Tuned Microstructure for High-Energy Quasi-Solid-State Supercapacitors. <b>2019</b> , 7, 13127-13135	32
1116	Preparation and application of perovskite-type oxides for electrocatalysis in oxygen/air electrodes. <b>2019</b> , 26, 1387-1401	3
1115	An Asymmetric Supercapacitor-Diode (CAPode) for Unidirectional Energy Storage. <b>2019</b> , 58, 13060-13065	24
1114	An Asymmetric Supercapacitor-Diode (CAPode) for Unidirectional Energy Storage. <b>2019</b> , 131, 13194-13199	0
1113	Hierarchical zinc cobalt sulfide flowers grown on nickel foam as binder-free electrodes for high-performance asymmetric supercapacitors. <b>2019</b> , 319, 859-868	24

1112	Graphene quantum dot induced tunable growth of nanostructured MnCo <sub>2</sub> O <sub>4.5</sub> composites for high-performance supercapacitors. <b>2019</b> , 3, 2499-2508	29
1111	Ionic liquid electrolytes in electric double layer capacitors. <b>2019</b> , 62, 1537-1555	18
1110	A high-performance lithium-ion capacitor with carbonized NiCo <sub>2</sub> O <sub>4</sub> anode and vertically-aligned carbon nanoflakes cathode. <b>2019</b> , 22, 265-274	29
1109	Communication Convolution-Based Estimation of Supercapacitor Parameters under Periodic Voltage Excitations. <b>2019</b> , 166, A2267-A2269	8
1108	Carbon-decorated LiMn <sub>2</sub> O <sub>4</sub> nanorods with enhanced performance for supercapacitors. <b>2019</b> , 805, 624-630	7
1107	Heterostructural Three-Dimensional Reduced Graphene Oxide/CoMn <sub>2</sub> O <sub>4</sub> Nanosheets toward a Wide-Potential Window for High-Performance Supercapacitors. <b>2019</b> , 2, 5219-5230	23
1106	Nitrogen-doped graphene prepared by thermal annealing of fluorinated graphene oxide as supercapacitor electrode. <b>2019</b> , 94, 3530-3537	15
1105	Extraordinary Thickness-Independent Electrochemical Energy Storage Enabled by Cross-Linked Microporous Carbon Nanosheets. <b>2019</b> , 11, 26946-26955	35
1104	Towards Real-Time Ion-Specific Structural Sensitivity in Nanoporous Carbon Electrodes Using In Situ Anomalous Small-Angle X-ray Scattering. <b>2019</b> , 11, 42214-42220	8
1103	Magnetic Resonance Imaging of a Complete Supercapacitor Giving Additional Insight on the Role of Nanopores. <b>2019</b> , 13, 12810-12815	18
1102	Nile Blue Functionalized Graphene Aerogel as a Pseudocapacitive Negative Electrode Material across the Full pH Range. <b>2019</b> , 13, 12567-12576	35
1101	On-Chip Microsupercapacitors: From Material to Fabrication. <b>2019</b> , 7, 1900820	10
1100	Carbon nano bowl array derived from a corncob sponge/carbon nanotubes/polymer composite and its electrochemical properties. <b>2019</b> , 183, 107792	5
1099	Synthesis of a Novel Mn(II)-porphyrins polycondensation polymer and its application as pseudo-capacitor electrode material. <b>2019</b> , 900, 120940	7
1098	On the development of an original mesoscopic model to predict the capacitive properties of carbon-carbon supercapacitors. <b>2019</b> , 327, 135022	14
1097	Nanostructured pseudocapacitors with pH-tunable electrolyte for electrochromic smart windows. <b>2019</b> , 66, 104200	11
1096	Nitrogen and Sulfur Co-Doped Graphene-Like Carbon from Industrial Dye Wastewater for Use as a High-Performance Supercapacitor Electrode. <b>2019</b> , 3, 1900043	9
1095	Engineering Redox Activity in Conjugated Microporous Polytriphenylamine Networks Using Pyridyl Building Blocks toward Efficient Supercapacitors. <b>2019</b> , 40, e1900455	18

1094	Enhancing Energy Storage Devices with Biomacromolecules in Hybrid Electrodes. <b>2019</b> , 14, e1900062	13
1093	Pseudocapacitive Charge Storage in Thin Nanobelts. <b>2019</b> , 1, 205-213	29
1092	Silver nanoparticles entrapped cobalt oxide nanohairs/electrospun carbon nanofibers nanocomposite in apt architecture for high performance supercapacitors. <b>2019</b> , 178, 107482	20
1091	Morphology-dependent binder-free CuNiO <sub>2</sub> electrode material with excellent electrochemical performances for supercapacitors. <b>2019</b> , 26, 101037	9
1090	Porous Carbon Hollow Rod for Supercapacitors with High Energy Density. <b>2019</b> , 58, 22124-22132	12
1089	Amorphous Mo-Ta Oxide Nanotubes for Long-Term Stable Mo Oxide-Based Supercapacitors. <b>2019</b> , 11, 45665-45673	7
1088	Time domain modelling of concurrent insertion and capacitive storage using Laplace domain representations of impedance. <b>2019</b> , 850, 113379	2
1087	Densely Functionalized Cyanographene Bypasses Aqueous Electrolytes and Synthetic Limitations Toward Seamless Graphene/FeOOH Hybrids for Supercapacitors. <b>2019</b> , 29, 1906998	11
1086	Self-assembled microspheres composed of porous ZnO/CoO nanosheets for aqueous hybrid supercapacitors. <b>2019</b> , 52, 505501	9
1085	CoNiS nanosheets on nitrogen-doped carbon foam as binder-free and flexible electrodes for high-performance asymmetric supercapacitors. <b>2019</b> , 30, 495404	15
1084	Facile and High-Efficient Synthesis of High-Performance Supercapacitor Electrode Materials Based on the Synergistic Intercalation and Oxidation of Layered Tungsten Disulfide. <b>2019</b> , 6, 1901122	7
1083	A coin like porous carbon derived from Al-MOF with enhanced hierarchical structure for fast charging and super long cycle energy storage. <b>2019</b> , 154, 428-438	31
1082	Controllable synthesis and electrochemical capacitor performance of MOF-derived MnOx/N-doped carbon/MnO <sub>2</sub> composites. <b>2019</b> , 6, 2873-2884	16
1081	Three-dimensional porous carbon materials and their composites as electrodes for electrochemical energy storage systems. <b>2019</b> , 3, 2221-2245	45
1080	Mn-doped Ni-coordination supramolecular networks for binder-free high-performance supercapacitor electrode material. <b>2019</b> , 321, 134682	9
1079	The synthesis of nanostructured nitrogen-doped carbon via one-step rapid carbonization of metal-organic frameworks: Towards enhanced supercapacitor performance. <b>2019</b> , 25, 100898	3
1078	Enhanced Power Performance of Highly Mesoporous Sol-Gel TiC Derived Carbons in Ionic Liquid and Non-Aqueous Electrolyte Based Capacitors. <b>2019</b> , 166, A2887-A2895	2
1077	Energy storage on demand: ultra-high-rate and high-energy-density inkjet-printed NiO micro-supercapacitors. <b>2019</b> , 7, 21496-21506	37

1076	Modelling supercapacitors using a dynamic equivalent circuit with a distribution of relaxation times. <b>2019</b> , 25, 100912	27
1075	Enhancing the electrochemical performance of nickel cobalt sulfides hollow nanospheres by structural modulation for asymmetric supercapacitors. <b>2019</b> , 557, 135-143	38
1074	Atomic-level structure engineering of Ni-substituted NiCo <sub>3</sub> S <sub>4</sub> for enhancing performance of supercapacitors. <b>2019</b> , 851, 113474	5
1073	Design and theoretical study of carbon-based supercapacitors especially exhibiting superior rate capability by the synergistic effect of nitrogen and phosphor dopants. <b>2019</b> , 155, 223-232	25
1072	Structure-designed synthesis of hierarchical NiCoO@NiO composites for high-performance supercapacitors. <b>2019</b> , 556, 386-391	66
1071	Facile Synthesis of Novel VMoO Nanowires With High-Rate Supercapacitive Performance. <b>2019</b> , 7, 595	4
1070	Al <sup>3+</sup> ion intercalation pseudocapacitance study of W <sub>18</sub> O <sub>49</sub> nanostructure. <b>2019</b> , 438, 227028	36
1069	Three-dimensional honeycomb-like porous carbon strutted nickel phosphide grown by analogous gel blowing for aqueous asymmetric supercapacitor. <b>2019</b> , 25, 100872	4
1068	MoP-protected Mo oxide nanotube arrays for long-term stable supercapacitors. <b>2019</b> , 17, 227-235	12
1067	Multilayer NiMn layered double hydroxide nanosheets covered porous Co <sub>3</sub> O <sub>4</sub> nanowire arrays with hierarchical structure for high-performance supercapacitors. <b>2019</b> , 440, 227123	46
1066	Porous molybdenum tungsten oxynitrides enable long-life supercapacitors with high capacitance. <b>2019</b> , 442, 227247	3
1065	Direct synthesis of porous graphitic carbon sheets grafted on carbon fibers for high-performance supercapacitors. <b>2019</b> , 7, 3298-3306	43
1064	High-voltage operation of Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> /AC hybrid supercapacitor cell in carbonate and sulfone electrolytes: Gas generation and its characterization. <b>2019</b> , 301, 312-318	12
1063	From ZIF nanoparticles to hierarchically porous carbon: toward very high surface area and high-performance supercapacitor electrode materials. <b>2019</b> , 6, 32-39	13
1062	Bio-inspired nano-engineering of an ultrahigh loading 3D hierarchical Ni@NiCoS/NiS electrode for high energy density supercapacitors. <b>2019</b> , 11, 1728-1736	57
1061	Fabrication of MWNT@CMPs and carbonized MWNT@CMPs for supercapacitors. <b>2019</b> , 226, 309-317	9
1060	Nontemplating Porous Carbon Material from Polyphosphamide Resin for Supercapacitors. <b>2019</b> , 12, 204-215	6
1059	Unraveling the Correlation between Structures of Carbon Nanospheres Derived from Polymeric Spheres and Their Electrochemical Performance to Achieve High-Rate Supercapacitors. <b>2019</b> , 40, e1800770	15

1058	Electrode thickness matching for achieving high-volumetric-performance lithium-ion capacitors. <b>2019</b> , 18, 133-138	31
1057	A novel coral structured porous-like amorphous carbon derived from zinc-based fluorinated metal-organic framework as superior cathode material for high performance supercapacitors. <b>2019</b> , 414, 401-411	36
1056	In situ evolution of the active phase on stainless steel mesh toward a cost-effective bifunctional electrode for energy storage and conversion. <b>2019</b> , 55, 2513-2516	24
1055	A new strategy to activate graphite oxide as a high-performance cathode material for lithium-ion batteries. <b>2019</b> , 43, 4727-4733	2
1054	Understanding the Different Diffusion Mechanisms of Hydrated Protons and Potassium Ions in Titanium Carbide MXene. <b>2019</b> , 11, 7087-7095	25
1053	Nb2O5/reduced Graphene Oxide Nanocomposite Anode for High Power Hybrid Supercapacitor Applications. <b>2019</b> , 4, 1098-1102	16
1052	Facile synthesis of porous carbon materials with extra high nitrogen content for supercapacitor electrodes. <b>2019</b> , 43, 3713-3718	13
1051	3D Laser Scribed Graphene Derived from Carbon Nanospheres: An Ultrahigh-Power Electrode for Supercapacitors. <b>2019</b> , 3, 1900005	47
1050	Constructing hierarchical lanthanum-doped nickel hydroxidenitrate nanoflowers with dilated lattice spacing for improving asymmetric supercapacitors. <b>2019</b> , 300, 290-298	18
1049	Block copolymer-based porous carbon fibers. <b>2019</b> , 5, eaau6852	122
1048	Boosting the charge storage of layered double hydroxides derived from carbon nanotube-tailored metal organic frameworks. <b>2019</b> , 301, 117-125	44
1047	Two-step synthesis of nanohusk Fe3O4 embedded in 3D network pyrolytic marine biochar for a new generation of anode materials for Lithium-Ion batteries. <b>2019</b> , 786, 930-937	36
1046	A soft yet device-level dynamically super-tough supercapacitor enabled by an energy-dissipative dual-crosslinked hydrogel electrolyte. <b>2019</b> , 58, 732-742	123
1045	Exponential Scaling of Water Exchange Rates with Ion Interaction Strength from the Perspective of Dynamic Facilitation Theory. <b>2019</b> , 123, 1077-1084	3
1044	Ordered mesoporous carbons from lignin: a new class of biobased electrodes for supercapacitors. <b>2019</b> , 21, 550-559	79
1043	Chalcogenide solution-mediated activation protocol for scalable and ultrafast synthesis of single-crystalline 1-D copper sulfide for supercapacitors. <b>2019</b> , 7, 2529-2535	14
1042	A Universal Converse Voltage Process for Triggering Transition Metal Hybrids In Situ Phase Restruction toward Ultrahigh-Rate Supercapacitors. <b>2019</b> , 31, e1901241	48
1041	High-performance asymmetric supercapacitor based on graphene-supported iron oxide and manganese sulfide. <b>2019</b> , 25, 4925-4933	11



1040	V2O3/C nanocomposites with interface defects for enhanced intercalation pseudocapacitance. <b>2019</b> , 318, 635-643	33
1039	Advances in the development of power supplies for the Internet of Everything. <b>2019</b> , 1, 130-139	67
1038	Probing Electric Double-Layer Composition via in Situ Vibrational Spectroscopy and Molecular Simulations. <b>2019</b> , 10, 3381-3389	12
1037	Photothermal and Moisture Actuator Made with Graphene Oxide and Sodium Alginate for Remotely Controllable and Programmable Intelligent Devices. <b>2019</b> , 11, 21926-21934	25
1036	Nanoporous Cu@Cu2O hybrid arrays enable photo-assisted supercapacitor with enhanced capacities. <b>2019</b> , 7, 15691-15697	35
1035	Sonochemical assisted fabrication of 3D hierarchical porous carbon for high-performance symmetric supercapacitor. <b>2019</b> , 58, 104617	15
1034	One-Step In Situ Self-Assembly of Cypress Leaf-Like Cu(OH) Nanostructure/Graphene Nanosheets Composite with Excellent Cycling Stability for Supercapacitors. <b>2019</b> , 14, 167	14
1033	Comparing pore structure models of nanoporous carbons obtained from small angle X-ray scattering and gas adsorption. <b>2019</b> , 152, 416-423	21
1032	A flexible graphene-carbon fiber composite electrode with high surface area-normalized capacitance. <b>2019</b> , 3, 1827-1832	8
1031	Hierarchical assembly of manganese dioxide nanosheets on one-dimensional titanium nitride nanofibers for high-performance supercapacitors. <b>2019</b> , 552, 712-718	16
1030	Molybdenum Nitride Nanocrystals Anchored on Phosphorus-Incorporated Carbon Fabric as a Negative Electrode for High-Performance Asymmetric Pseudocapacitor. <b>2019</b> , 16, 50-62	27
1029	Vertically Oriented Grid-like Reduced Graphene Oxide for Ultrahigh Power Supercapacitor. <b>2019</b> , 48, 824-827	5
1028	Whole-polymers electrode membrane based on the interfacial polymerization and intermacromolecular force between polyaniline and polyethersulfone for flexible supercapacitors. <b>2019</b> , 318, 130-141	6
1027	Computational screening of electrolyte materials: status quo and open problems. <b>2019</b> , 23, 58-69	18
1026	Template Fabrication of Amorphous Co2SiO4 Nanobelts/Graphene Oxide Composites with Enhanced Electrochemical Performances for Hybrid Supercapacitors. <b>2019</b> , 2, 3830-3839	71
1025	Superbat: battery-like supercapacitor utilized by graphene foam and zinc oxide (ZnO) electrodes induced by structural defects. <b>2019</b> , 1, 2586-2597	53
1024	Silicon quantum dot-assisted synthesis of MoS2/rGO sandwich structures with excellent supercapacitive performance. <b>2019</b> , 43, 8660-8668	7
1023	Zinc-Tiered Synthesis of 3D Graphene for Monolithic Electrodes. <b>2019</b> , 31, e1901186	42

1022	Prolonged Cycle Life for Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> //[Li <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /Multiwalled Carbon Nanotubes] Full Cell Configuration via Electrochemical Preconditioning. <b>2019</b> , 87, 148-155	7
1021	3D Interdigitated Microsupercapacitors with Record Areal Cell Capacitance. <b>2019</b> , 15, e1901224	14
1020	Gunpowder chemistry-assisted exfoliation approach for the synthesis of porous carbon nanosheets for high-performance ionic liquid based supercapacitors. <b>2019</b> , 24, 100764	8
1019	Fabrication of antimony doped tin oxide nanopowders as an advanced electrode material for supercapacitors. <b>2019</b> , 14, 254-258	7
1018	In situ growth of CuCo <sub>2</sub> S <sub>4</sub> nanocrystals on N, S-codoped reduced graphene oxide nanosheets for supercapacitors. <b>2019</b> , 6, 085523	3
1017	Controlled microstructure in two dimensional Ni-Co LDH nanosheets-crosslinked network for high performance supercapacitors. <b>2019</b> , 30, 1239-1246	8
1016	Target-oriented electrode constructions toward ultra-fast and ultra-stable all-graphene lithium ion capacitors. <b>2019</b> , 23, 409-417	29
1015	Understanding the Charge Storage Mechanism to Achieve High Capacity and Fast Ion Storage in Sodium-Ion Capacitor Anodes by Using Electrospun Nitrogen-Doped Carbon Fibers. <b>2019</b> , 29, 1902858	54
1014	Functionalized Carbon Materials for Electronic Devices: A Review. <b>2019</b> , 10,	42
1013	High-Stability MnO Nanowires@C@MnO Nanosheet Core-Shell Heterostructure Pseudocapacitance Electrode Based on Reversible Phase Transition Mechanism. <b>2019</b> , 15, e1900862	46
1012	Understanding Interlayer Deprotonation of Hydrogen Titanium Oxide for High-Power Electrochemical Energy Storage. <b>2019</b> , 2, 3633-3641	10
1011	Asymmetric supercapacitors based on 3D graphene-wrapped V <sub>2</sub> O <sub>5</sub> nanospheres and Fe <sub>3</sub> O <sub>4</sub> @3D graphene electrodes with high power and energy densities. <b>2019</b> , 310, 58-69	62
1010	Enhancement on the characteristics of supercapacitors using surface modification of sprayed-carbon nanotube thin film electrodes with oxygen plasma treatment. <b>2019</b> , 58, 056502	3
1009	Simulative Approach for Linking Electrode and Electrolyte Properties to Supercapacitor Performance. <b>2019</b> , 91, 889-899	1
1008	Strong metal oxide-support interactions in carbon/hematite nanohybrids activate novel energy storage modes for ionic liquid-based supercapacitors. <b>2019</b> , 20, 188-195	20
1007	Oxygen vacancy-enriched MoO <sub>3</sub> nanobelts for asymmetric supercapacitors with excellent room/low temperature performance. <b>2019</b> , 7, 13205-13214	64
1006	Engineering Ultrathin MoS <sub>2</sub> Nanosheets Anchored on N-Doped Carbon Microspheres with Pseudocapacitive Properties for High-Performance Lithium-Ion Capacitors. <b>2019</b> , 3, 1900081	64
1005	MOF-derived NiO/Ni architecture encapsulated into N-doped carbon nanotubes for advanced asymmetric supercapacitors. <b>2019</b> , 6, 1553-1560	23

1004	Facile synthesis of hierarchical mesopore-rich activated carbon with excellent capacitive performance. <b>2019</b> , 546, 101-112	15
1003	Influences from solvents on charge storage in titanium carbide MXenes. <i>Nature Energy</i> , <b>2019</b> , 4, 241-248	229
1002	Ion Interactions across Graphene in Electrolyte Aqueous Solutions. <b>2019</b> , 123, 9799-9806	14
1001	Hexagonal plate-like NiCoMn hydroxide nanostructures to achieve high energy density of hybrid supercapacitors. <b>2019</b> , 7, 11362-11369	72
1000	Pore and Heteroatom Engineered Carbon Foams for Supercapacitors. <b>2019</b> , 9, 1803665	208
999	A sodium perchlorate-based hybrid electrolyte with high salt-to-water molar ratio for safe 2.5 V carbon-based supercapacitor. <b>2019</b> , 23, 603-609	71
998	CuCo <sub>2</sub> O <sub>4</sub> nanowire arrays wrapped in metal oxide nanosheets as hierarchical multicomponent electrodes for supercapacitors. <b>2019</b> , 369, 363-369	100
997	Nanocarbons as electrode material for energy storage devices: Correlations between theory and experiment. <b>2019</b> , 355-381	
996	A low-cost water-in-salt electrolyte for a 2.3 V high-rate carbon-based supercapacitor. <b>2019</b> , 7, 7541-7547	160
995	Unveiling the pseudocapacitive charge storage mechanisms of nanostructured vanadium nitrides using in-situ analyses. <b>2019</b> , 60, 72-81	36
994	Three-dimensional ordered porous electrode materials for electrochemical energy storage. <b>2019</b> , 11,	126
993	Fast Microwave Synthesis of Hierarchical Porous Carbons from Waste Palm Boosted by Activated Carbons for Supercapacitors. <b>2019</b> , 9,	16
992	Metal-Organic Framework (MOF) Derived Electrodes with Robust and Fast Lithium Storage for Li-Ion Hybrid Capacitors. <b>2019</b> , 29, 1900532	98
991	Carbons from Biomass for Electrochemical Capacitors. <b>2019</b> , 153-184	2
990	High-conductivity reduced-graphene-oxide/copper aerogel for energy storage. <b>2019</b> , 60, 760-767	27
989	Effects of Carbon Pore Size on the Contribution of Ionic Liquid Electrolyte Phase Transitions to Energy Storage in Supercapacitors. <b>2019</b> , 6,	12
988	Boosting the Electrical Double-Layer Capacitance of Graphene by Self-Doped Defects through Ball-Milling. <b>2019</b> , 29, 1901127	122
987	Ionic liquids to monitor the nano-structuration and the surface functionalization of material electrodes: a proof of concept applied to cobalt oxyhydroxide. <b>2019</b> , 1, 2240-2249	4

986	High-rate lithium ion energy storage to facilitate increased penetration of photovoltaic systems in electricity grids. <b>2019</b> , 6, 1	6
985	Sliding graphene: a novel concept to boost supercapacitor performance. <b>2019</b> , 4, 1077-1091	15
984	Block copolymers for supercapacitors, dielectric capacitors and batteries. <b>2019</b> , 31, 233001	13
983	Molten-salt strategy for fabrication of hierarchical porous N-doped carbon nanosheets towards high-performance supercapacitors. <b>2019</b> , 230, 178-186	13
982	Camphor wood waste-derived microporous carbons as high-performance electrode materials for supercapacitors. <b>2019</b> , 29, 213-218	4
981	Study of pseudocapacitive contribution to superior energy storage of 3D heterostructure CoWO <sub>4</sub> /Co <sub>3</sub> O <sub>4</sub> nanocone arrays. <b>2019</b> , 418, 202-210	83
980	Block copolymer derived uniform mesopores enable ultrafast electron and ion transport at high mass loadings. <b>2019</b> , 10, 675	130
979	Simultaneous cross-linking and pore-forming electrospun carbon nanofibers towards high capacitive performance. <b>2019</b> , 479, 128-136	35
978	High rate performance and stabilized cycle life of Co <sup>2+</sup> -doped nickel sulfide nanosheets synthesized by a scalable method of solid-state reaction. <b>2019</b> , 366, 33-40	15
977	1T-MoS <sub>2</sub> nanosheets confined among TiO <sub>2</sub> nanotube arrays for high performance supercapacitor. <b>2019</b> , 366, 163-171	64
976	Yeast protein derived hierarchical mesoporous carbon for symmetrical capacitor with excellent electrochemical performances. <b>2019</b> , 281, 50-56	7
975	One-pot solvothermal synthesis of size-controlled NiO nanoparticles. <b>2019</b> , 30, 861-868	14
974	Mechanism of biomass activation and ammonia modification for nitrogen-doped porous carbon materials. <b>2019</b> , 280, 260-268	58
973	Towards establishing standard performance metrics for batteries, supercapacitors and beyond. <b>2019</b> , 48, 1272-1341	461
972	Sea-urchin-like nickel-cobalt phosphide/phosphate composites as advanced battery materials for hybrid supercapacitors. <b>2019</b> , 7, 6241-6249	120
971	Valence modulation in hollow carbon nanosphere/manganese oxide composite for high performance supercapacitor. <b>2019</b> , 480, 1116-1125	20
970	Natural Plant Template-Derived Cellular Framework Porous Carbon as a High-Rate and Long-Life Electrode Material for Energy Storage. <b>2019</b> , 7, 5845-5855	40
969	Metal organic frameworks derived hierarchical hollow Ni <sub>0.85</sub> Se P composites for high-performance hybrid supercapacitor and efficient hydrogen evolution. <b>2019</b> , 303, 94-104	18

968	Hollow CoO@MnO Cubic Derived From ZIF-67@Mn-ZIF as Electrode Materials for Supercapacitors. <b>2019</b> , 7, 831	17
967	Electrochemically active binary anion compounds with tailored oxygen vacancy for energy storage system. <b>2019</b> , 444, 227301	2
966	Ultrahigh Nitrogen Doping of Carbon Nanosheets for High Capacity and Long Cycling Potassium Ion Storage. <b>2019</b> , 9, 1902672	158
965	Rational Construction of V <sub>2</sub> O <sub>5</sub> @rGO with Enhanced Pseudocapacitive Storage for High-Performance Flexible Energy Storage Device. <b>2019</b> , 6, 5845-5855	6
964	Carbons with Regular Pore Geometry Yield Fundamental Insights into Supercapacitor Charge Storage. <b>2019</b> , 5, 1813-1823	28
963	Highly accessible hierarchical porous carbon from a bi-functional ionic liquid bulky gel: high-performance electrochemical double layer capacitors. <b>2019</b> , 7, 25297-25304	10
962	Effect of Pore Size on the Ion Electrosorption and Hydrogen/Deuterium Electrosorption Using Sodium Chloride in H <sub>2</sub> O and D <sub>2</sub> O. <b>2019</b> , 166, A4158-A4167	6
961	The electrochemical applications of rare earth-based nanomaterials. <b>2019</b> , 144, 6789-6811	34
960	A nitrogen and phosphorus enriched pyridine bridged inorganic-organic hybrid material for supercapacitor application. <b>2019</b> , 43, 16670-16675	9
959	Few-layered Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXenes coupled with Fe <sub>2</sub> O <sub>3</sub> nanorod arrays grown on carbon cloth as anodes for flexible asymmetric supercapacitors. <b>2019</b> , 7, 22631-22641	49
958	Hierarchically structured Co <sub>9</sub> S <sub>8</sub> @NiCo <sub>2</sub> O <sub>4</sub> nanobrushes for high-performance flexible asymmetric supercapacitors. <b>2019</b> , 356, 985-993	86
957	Pseudocapacitive Co <sub>9</sub> S <sub>8</sub> /graphene electrode for high-rate hybrid supercapacitors. <b>2019</b> , 141, 134-142	85
956	Flexible supercapacitor electrodes fabricated by dealloying nanocrystallized Al-Ni-Co-Y-Cu metallic glasses. <b>2019</b> , 772, 164-172	14
955	Silica-grafted ionic liquid for maximizing the operational voltage of electrical double-layer capacitors. <b>2019</b> , 18, 253-259	10
954	The evaluation of super-capacitive performance of novel g-C <sub>3</sub> N <sub>4</sub> /PPy nanocomposite electrode material with sandwich-like structure. <b>2019</b> , 162, 369-377	38
953	Network-Like Ni <sub>1-x</sub> Mox Nanosheets: Multi-Functional Electrodes for Overall Water Splitting and Supercapacitor. <b>2019</b> , 6, 1338-1343	10
952	Covalently functionalized graphene as a supercapacitor electrode material. <b>2019</b> , 13, 25-33	42
951	Simulation Study of the Capacitance and Charging Mechanisms of Ionic Liquid Mixtures near Carbon Electrodes. <b>2019</b> , 123, 1610-1618	21

950	Enhancing Capacitance of Nickel Cobalt Chalcogenide via Interface Structural Design. <b>2019</b> , 11, 2082-2092	15
949	Nickel oxide nanoparticles supported onto oriented multi-walled carbon nanotube as electrodes for electrochemical capacitors. <b>2019</b> , 298, 468-483	32
948	Exploring Li-ion hopping behavior in zinc ferrite and promoting performance for flexible solid-state supercapacitor. <b>2019</b> , 295, 558-568	15
947	Synthesis of hierarchical Cu <sub>2</sub> O octahedra@Ni(OH) <sub>2</sub> nanosheets core-shell heterostructures for high-performance supercapacitor. <b>2019</b> , 91, 115-123	18
946	Nanoporous ruthenium and manganese oxide nanoparticles/reduced graphene oxide for high-energy symmetric supercapacitors. <b>2019</b> , 144, 185-192	34
945	Porous Core-Shell CuCo S Nanospheres as Anode Material for Enhanced Lithium-Ion Batteries. <b>2019</b> , 25, 885-891	28
944	Ferrocenyl-functionalized carbon nanotubes with greatly improved surface reactivity for enhancing electrocapacitance. <b>2019</b> , 880, 349-354	9
943	Two-dimensional materials for lithium/sodium-ion capacitors. <b>2019</b> , 11, 30-45	63
942	Redox-Mediator-Enhanced Electrochemical Capacitors: Recent Advances and Future Perspectives. <b>2019</b> , 12, 1118-1132	40
941	Novel Keplerate type polyoxometalate-surfactant-graphene hybrids as advanced electrode materials for supercapacitors. <b>2019</b> , 17, 186-193	19
940	Ionothermal strategy towards template-free hierarchical porous carbons for supercapacitive energy storage. <b>2019</b> , 143, 487-493	18
939	Solubility contrast strategy for enhancing intercalation pseudocapacitance in layered MnO <sub>2</sub> electrodes. <b>2019</b> , 56, 357-364	27
938	Metal-organic framework derived Ni/NiO micro-particles with subtle lattice distortions for high-performance electrocatalyst and supercapacitor. <b>2019</b> , 244, 732-739	146
937	Investigation of ion transport in chemically tuned pillared graphene materials through electrochemical impedance analysis. <b>2019</b> , 296, 882-890	21
936	N-doped porous carbon derived from walnut shells with enhanced electrochemical performance for supercapacitor. <b>2019</b> , 12, 1950042	11
935	Enhanced electrochemical performance of salen-type transition metal polymer with electron-donating substituents. <b>2019</b> , 25, 1045-1055	6
934	Hierarchical multicomponent electrode with NiMoO <sub>4</sub> nanosheets coated on Co <sub>3</sub> O <sub>4</sub> nanowire arrays for enhanced electrochemical properties. <b>2019</b> , 781, 1127-1131	24
933	Understanding the energy storage mechanisms of poly(3,4-ethylenedioxythiophene)-coated silicon nanowires by electrochemical quartz crystal microbalance. <b>2019</b> , 240, 59-61	10

932	Controllable synthesis of a NiO hierarchical microspheres/nanofibers composites assembled on nickel foam for supercapacitor. <b>2019</b> , 240, 62-65	21
931	Metal-organic frameworks for energy storage devices: Batteries and supercapacitors. <b>2019</b> , 21, 632-646	165
930	Heteroatom-Doped Porous Carbon Materials with Unprecedented High Volumetric Capacitive Performance. <b>2019</b> , 58, 2397-2401	135
929	Heteroatom-Doped Porous Carbon Materials with Unprecedented High Volumetric Capacitive Performance. <b>2019</b> , 131, 2419-2423	17
928	Hetero-structured nanocomposites of Ni/co/O/S for high-performance pseudo-supercapacitors. <b>2019</b> , 299, 298-311	14
927	Tuning Charge Storage Properties of Supercapacitive Electrodes Evidenced by In Situ Gravimetric and Viscoelastic Explorations. <b>2019</b> , 91, 2885-2893	10
926	Sparsely Pillared Graphene Materials for High-Performance Supercapacitors: Improving Ion Transport and Storage Capacity. <b>2019</b> , 13, 1443-1453	55
925	Construction of hierarchical holey graphene/MnO <sub>2</sub> composites as potential electrode materials for supercapacitors. <b>2019</b> , 775, 1206-1212	47
924	A novel rod-like porous carbon with ordered hierarchical pore structure prepared from Al-based metal-organic framework without template as greatly enhanced performance for supercapacitor. <b>2019</b> , 409, 13-23	57
923	High-Voltage Supercapacitors Based on Aqueous Electrolytes. <b>2019</b> , 6, 976-988	79
922	Review on Nanoarchitected Current Collectors for Pseudocapacitors. <b>2019</b> , 3, 1800341	28
921	Hierarchical NiSe@Co <sub>2</sub> (CO <sub>3</sub> )(OH) <sub>2</sub> heterogeneous nanowire arrays on nickel foam as electrode with high areal capacitance for hybrid supercapacitors. <b>2019</b> , 294, 325-336	38
920	Synergistic Coupling of Ether Electrolyte and 3D Electrode Enables Titanates with Extraordinary Coulombic Efficiency and Rate Performance for Sodium-Ion Capacitors. <b>2019</b> , 3, 1800371	33
919	Strategies and insights towards the intrinsic capacitive properties of MnO <sub>2</sub> for supercapacitors: Challenges and perspectives. <b>2019</b> , 57, 459-472	144
918	Tungsten Nitride Nanodots Embedded Phosphorous Modified Carbon Fabric as Flexible and Robust Electrode for Asymmetric Pseudocapacitor. <b>2019</b> , 15, e1804104	54
917	Hierarchical supercapacitor electrodes based on metallized glass fiber for ultrahigh areal capacitance. <b>2019</b> , 20, 315-323	10
916	Ultrathin graphene layer activated dendritic Fe <sub>2</sub> O <sub>3</sub> for high performance asymmetric supercapacitors. <b>2019</b> , 780, 212-219	20
915	Structure and functionality design of novel carbon and faradaic electrode materials for high-performance capacitive deionization. <b>2019</b> , 360, 364-384	71

914	Performance of microporous carbon electrodes for supercapacitors: Comparing graphene with disordered materials. <b>2019</b> , 17, 88-92	30
913	Strong synergetic electrochemistry between transition metals of $\beta$ -phase $\text{NiCoMn}$ hydroxide contributed superior performance for hybrid supercapacitors. <b>2019</b> , 412, 559-567	82
912	Designed Nanoarchitectures by Electrostatic Spray Deposition for Energy Storage. <b>2019</b> , 31, e1803408	29
911	Fabrication of hierarchical $\text{NiCo}_2\text{S}_4@\text{CoS}_2$ nanostructures on highly conductive flexible carbon cloth substrate as a hybrid electrode material for supercapacitors with enhanced electrochemical performance. <b>2019</b> , 293, 328-337	121
910	Preparation and electrochemical performance of modified $\text{Ti}_3\text{C}_2\text{T}_x$ /polypyrrole composites. <b>2019</b> , 136, 47003	8
909	Cu modified ZnO nanoflowers as photoanode material for highly efficient dye sensitized solar cells. <b>2019</b> , 294, 28-37	21
908	N/O co-doped porous interconnected carbon nanosheets from the co-hydrothermal treatment of soybean stalk and nickel nitrate for high-performance supercapacitors. <b>2020</b> , 558, 211-219	18
907	Achieving high energy density and high power density with pseudocapacitive materials. <b>2020</b> , 5, 5-19	542
906	$\text{NiCo}_2\text{S}_4$ -Based Composite Materials for Supercapacitors. <b>2020</b> , 85, 43-56	20
905	Controlling the physical and electrochemical properties of block copolymer-based porous carbon fibers by pyrolysis temperature. <b>2020</b> , 5, 153-165	19
904	Neutralization reaction in synthesis of carbon materials for supercapacitors. <b>2020</b> , 381, 122547	11
903	$\text{MnCo}_2\text{O}_4@\text{Co}(\text{OH})_2$ coupled with N-doped carbon nanotubes@reduced graphene oxide nanosheets as electrodes for solid-state asymmetric supercapacitors. <b>2020</b> , 384, 123372	24
902	Nitrogen and sulfur co-doped porous carbon fibers film for flexible symmetric all-solid-state supercapacitors. <b>2020</b> , 158, 456-464	39
901	Surface enhanced 3D rGO hybrids and porous rGO nano-networks as high performance supercapacitor electrodes for integrated energy storage devices. <b>2020</b> , 158, 527-535	25
900	Porous nitrogen-doped carbon/carbon nanocomposite electrodes enable sodium ion capacitors with high capacity and rate capability. <b>2020</b> , 67, 104240	31
899	3D hierarchical transition-metal sulfides deposited on MXene as binder-free electrode for high-performance supercapacitors. <b>2020</b> , 82, 309-316	50
898	Supercapacitive and ORR performances of nitrogen-doped hollow carbon spheres pyrolyzed from polystyrene@polypyrrole-polyaniline. <b>2020</b> , 818, 152890	20
897	Miniaturized high-performance metallic 1T-Phase $\text{MoS}_2$ micro-supercapacitors fabricated by temporally shaped femtosecond pulses. <b>2020</b> , 67, 104260	18



896	Three-dimensional silicon-integrated capacitor with unprecedented areal capacitance for on-chip energy storage. <b>2020</b> , 68, 104281	7
895	Tuning the morphology and phase of MoSe <sub>2</sub> by using a mixed solvent of water and dimethyl formamide and its enhanced electrocatalytic activity for hydrogen evolution reaction. <b>2020</b> , 55, 2129-2138	8
894	Combustion-driven synthesis route for tunable TiO <sub>2</sub> /RuO <sub>2</sub> hybrid composites as high-performance electrode materials for supercapacitors. <b>2020</b> , 384, 123269	18
893	Mesoscopic cage-like structured single-wall carbon nanotube cryogels. <b>2020</b> , 293, 109814	3
892	From Molecular Precursors to Nanoparticles Tailoring the Adsorption Properties of Porous Carbon Materials by Controlled Chemical Functionalization. <b>2020</b> , 30, 1908371	26
891	Recent Advances in Two-dimensional Materials for Electrochemical Energy Storage and Conversion. <b>2020</b> , 36, 10-23	27
890	A facile Zn involved self-sacrificing template-assisted strategy towards porous carbon frameworks for aqueous supercapacitors with high ions diffusion coefficient. <b>2020</b> , 103, 107696	3
889	A branched nanosheet-interlaced structure of high performance Ni(OH) <sub>2</sub> derived from the isostructural Ni <sub>3</sub> (NO <sub>3</sub> ) <sub>2</sub> (OH) <sub>4</sub> to clarify the role of structure self-supporting in cycling stability. <b>2020</b> , 4, 1780-1788	3
888	Progress in supercapacitors: roles of two dimensional nanotubular materials. <b>2020</b> , 2, 70-108	91
887	Permselective ion electrosorption of subnanometer pores at high molar strength enables capacitive deionization of saline water. <b>2020</b> , 4, 1285-1295	23
886	Copolymer derived micro/meso-porous carbon nanofibers with vacancy-type defects for high-performance supercapacitors. <b>2020</b> , 8, 2463-2471	60
885	Mesopore-dominated hollow carbon nanoparticles prepared by simple air oxidation of carbon black for high mass loading supercapacitors. <b>2020</b> , 160, 328-334	32
884	Review of Transition Metal Nitrides and Transition Metal Nitrides/Carbon nanocomposites for supercapacitor electrodes. <b>2020</b> , 245, 122533	48
883	Nitrogen Self-Doped Porous Carbon for High-Performance Supercapacitors. <b>2020</b> , 3, 1585-1592	59
882	Voltage issue of aqueous rechargeable metal-ion batteries. <b>2020</b> , 49, 180-232	301
881	Sea urchin-like CuCo <sub>2</sub> S <sub>4</sub> microspheres with a controllable interior structure as advanced electrode materials for high-performance supercapacitors. <b>2020</b> , 7, 603-609	14
880	In situ Electron paramagnetic resonance spectroelectrochemical study of graphene-based supercapacitors: Comparison between chemically reduced graphene oxide and nitrogen-doped reduced graphene oxide. <b>2020</b> , 160, 236-246	23
879	Pressure difference-induced synthesis of P-doped carbon nanobowls for high-performance supercapacitors. <b>2020</b> , 385, 123858	39

878	Green Synthesis of Pyridyl Conjugated Microporous Polymers as Precursors for Porous Carbon Microspheres for Efficient Electrochemical Energy Storage. <b>2020</b> , 7, 959-966	16
877	High-Energy Density Li-Ion Capacitor with Layered SnS <sub>2</sub> /Reduced Graphene Oxide Anode and BCN Nanosheet Cathode. <b>2020</b> , 10, 1902836	46
876	One-Step Activation Synthesized Hierarchical Porous Carbon Spheres from Resorcinol/Thiourea/Formaldehyde for Electrochemical Capacitors. <b>2020</b> , 59, 226-235	9
875	Capacitive and diffusion-controlled mechanism of strontium oxide based symmetric and asymmetric devices. <b>2020</b> , 27, 101056	32
874	Transition metal chalcogenides for energy storage and conversion. <b>2020</b> , 355-391	6
873	Construction of binder-free hierarchical mesoporous 3D CoMoO <sub>4</sub> flowers assembled by nanosheets for aqueous symmetrical 1.2 V supercapacitor in basic electrolyte. <b>2020</b> , 330, 135201	3
872	Synthesis of amorphous cobalt silicate nanobelts@manganese silicate core-shell structures as enhanced electrode for high-performance hybrid supercapacitors. <b>2020</b> , 561, 762-771	40
871	Enhanced Ionic/Electronic Transport in Nano-TiO <sub>2</sub> /Sheared CNT Composite Electrode for Na <sup>+</sup> Insertion-based Hybrid Ion-Capacitors. <b>2020</b> , 30, 1908309	34
870	Charge fluctuations from molecular simulations in the constant-potential ensemble. <b>2020</b> , 22, 10480-10489	30
869	Dense organic molecules/graphene network anodes with superior volumetric and areal performance for asymmetric supercapacitors. <b>2020</b> , 8, 461-469	15
868	Template synthesis of structure-controlled 3D hollow nickel-cobalt phosphides microcubes for high-performance supercapacitors. <b>2020</b> , 561, 23-31	20
867	Progress of Two-Dimensional Ti C T in Supercapacitors. <b>2020</b> , 13, 1296-1329	24
866	Study on the effect of oxidation-ultrasound treatment on the electrochemical properties of activated carbon materials. <b>2020</b> , 69, 104921	5
865	MOF-derived NiO nanoparticles prilled by controllable explosion of perchlorate ion: Excellent performances and practical applications in supercapacitors. <b>2020</b> , 507, 145077	18
864	Achieving high volumetric EDLC carbons via hydrothermal carbonization and cyclic activation. <b>2020</b> , 2, 025005	1
863	Reviewing the fundamentals of supercapacitors and the difficulties involving the analysis of the electrochemical findings obtained for porous electrode materials. <b>2020</b> , 27, 555-590	79
862	La-doped V <sub>2</sub> O <sub>5</sub> ·H <sub>2</sub> O@OAB and flexible Fe <sub>2</sub> O <sub>3</sub> @rGO as binder-free thin film electrodes for asymmetric supercapacitors. <b>2020</b> , 389, 123534	26
861	Interface design based on Ti <sub>3</sub> C <sub>2</sub> MXene atomic layers of advanced battery-type material for supercapacitors. <b>2020</b> , 26, 472-482	61

860	Coupled cobalt silicate nanobelt-on-nanobelt hierarchy structure with reduced graphene oxide for enhanced supercapacitive performance. <b>2020</b> , 448, 227407	62
859	Designing chemical bonds between active materials and current collectors for packaging a high-performance supercapacitor. <b>2019</b> , 31, 105402	4
858	MXene derived TiS <sub>2</sub> nanosheets for high-rate and long-life sodium-ion capacitors. <b>2020</b> , 26, 550-559	57
857	Enhancing the energy density of supercapacitors by introducing nitrogen species into hierarchical porous carbon derived from camellia pollen. <b>2020</b> , 26, 2549-2561	8
856	Molecular origin of negative component of Helmholtz capacitance at electrified Pt(111)/water interface. <b>2020</b> , 6,	53
855	Advances in graphene-based supercapacitor electrodes. <b>2020</b> , 6, 2768-2784	33
854	In situ vanadophosphomolybdate impregnated into conducting polypyrrole for supercapacitor. <b>2020</b> , 364, 137286	15
853	Self-assembled reduced graphene oxide films with different thicknesses as high performance supercapacitor electrodes. <b>2020</b> , 32, 101795	7
852	Mn <sub>3</sub> O <sub>4</sub> embedded 3D multi-heteroatom codoped carbon sheets/carbon foams composites for high-performance flexible supercapacitors. <b>2020</b> , 849, 156666	16
851	Pinning ultrasmall greigite nanoparticles on graphene for effective transition-metal-sulfide supercapacitors in an ionic liquid electrolyte. <b>2020</b> , 8, 25716-25726	7
850	Ultra-high rate capability of the synergistically built dual nanostructure of NiCoS/nickel foam as an electrode in supercapacitors. <b>2020</b> , 12, 22330-22339	2
849	Carbon materials for high mass-loading supercapacitors: filling the gap between new materials and practical applications. <b>2020</b> , 8, 21930-21946	33
848	In Situ Growth of 2D Ultrathin NiCo O Nanosheet Arrays on Ni Foam for High Performance and Flexible Solid-State Supercapacitors. <b>2020</b> , 16, e2004188	30
847	Comparing the performance of sulfonium and phosphonium ionic liquids as electrolytes for supercapacitors by molecular dynamics simulations. <b>2020</b> , 364, 137181	5
846	Engineering early prediction of supercapacitors cycle life using neural networks. <b>2020</b> , 18, 100537	5
845	Polyaniline-filled carbonized wood membrane as an advanced self-supported electrode for superior pseudocapacitive energy storage. <b>2020</b> , 359, 136961	11
844	Electrochemical impedance spectroscopy correlation among graphene oxide/carbon fibers (GO/CF) composites and GO structural parameters produced at different oxidation degrees. <b>2020</b> , 9, 10841-10853	3
843	Introducing Na <sub>2</sub> SO <sub>4</sub> in aqueous ZnSO <sub>4</sub> electrolyte realizes superior electrochemical performance in zinc-ion hybrid capacitor. <b>2020</b> , 18, 100529	17

842	The rational design of biomass-derived carbon materials towards next-generation energy storage: A review. <b>2020</b> , 134, 110308	49
841	ReS2: A High-Rate Pseudocapacitive Energy Storage Material. <b>2020</b> , 3, 10261-10269	8
840	Ion-Exchange Separators Suppressing Self-Discharge in Polymeric Supercapacitors. <b>2020</b> , 5, 3276-3284	19
839	From starch to porous carbon nanosheets: Promising cathodes for high-performance aqueous Zn-ion hybrid supercapacitors. <b>2020</b> , 306, 110445	23
838	Controllable synthesis of layered K0.296Mn0.926O2 to assemble 2.4 V aqueous potassium-ion supercapacitors for double high devices. <b>2020</b> , 8, 17248-17256	12
837	Recent progress in metal-organic framework-based supercapacitor electrode materials. <b>2020</b> , 420, 213438	118
836	High-efficiency utilization of carbon materials for supercapacitors. <b>2020</b> , 1, 244-262	11
835	Mn incorporated MoS2 nanoflowers: A high performance electrode material for symmetric supercapacitor. <b>2020</b> , 338, 135815	26
834	Simple pyrolysis of alginate-based hydrogel cross-linked by bivalent ions into highly porous carbons for energy storage. <b>2020</b> , 158, 265-274	9
833	Microwave deposition synthesis of Ni(OH)2/sorghum stalk biomass carbon electrode materials for supercapacitors. <b>2020</b> , 846, 156376	32
832	How to speed up ion transport in nanopores. <b>2020</b> , 11, 6085	22
831	A reclaimed piezoelectric catalyst of MoS@TNr composites as high-performance anode materials for supercapacitors.. <b>2020</b> , 10, 38715-38726	3
830	Maximizing ion accessibility in MXene-knotted carbon nanotube composite electrodes for high-rate electrochemical energy storage. <b>2020</b> , 11, 6160	71
829	Adding salt to expand voltage window of humid ionic liquids. <b>2020</b> , 11, 5809	23
828	Synthesis of Sub-nanometer Porous Carbon Film for Energy Storage. <b>2020</b> , 15, 2992-2995	
827	True Meaning of Pseudocapacitors and Their Performance Metrics: Asymmetric versus Hybrid Supercapacitors. <b>2020</b> , 16, e2002806	142
826	Corn-based Electrochemical Energy Storage Devices. <b>2020</b> , 20, 1163-1180	15
825	Low-crystalline Ni/Co-oxyhydroxides nanoarrays on carbon cloth with high mass loading and hierarchical structure as cathode for supercapacitors. <b>2020</b> , 357, 136886	21

824	Fabrication of hollow bamboo-shaped NiCo <sub>2</sub> O <sub>4</sub> with controllable shell morphologies for high performance hybrid supercapacitors. <b>2020</b> , 849, 156317	14
823	Dictyophora-derived N-doped porous carbon microspheres for high-performance supercapacitors. <b>2020</b> , 44, 15415-15425	9
822	Carbon dot-modified mesoporous carbon as a supercapacitor with enhanced light-assisted capacitance. <b>2020</b> , 12, 17925-17930	11
821	Sodium dodecyl sulfate-assisted fabrication of NiO nanowalls grown on nickel foam as supercapacitor electrode materials. <b>2020</b> , 31, 13987-13997	5
820	Conjugated Microporous Polymer Network Grafted Carbon Nanotube Fibers with Tunable Redox Activity for Efficient Flexible Wearable Energy Storage. <b>2020</b> , 32, 8276-8285	27
819	Unraveling the Charge Storage Mechanism of Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene Electrode in Acidic Electrolyte. <b>2020</b> , 5, 2873-2880	51
818	Regulating Capacitive Performance of Monolithic Carbon Sponges by Balancing Heteroatom Content, Surface Area and Graphitization Degree. <b>2020</b> , 6, 1507-1512	5
817	Carbon coated 3D Nb <sub>2</sub> O <sub>5</sub> hollow nanospheres with superior performance as an anode for high energy Li-ion capacitors. <b>2020</b> , 4, 4868-4877	7
816	SILAR deposited nickel sulphide-nickel hydroxide nanocomposite for high performance asymmetric supercapacitor. <b>2020</b> , 356, 136844	13
815	How charge regulation and ion-surface affinity affect the differential capacitance of an electrical double layer. <b>2020</b> , 22, 18229-18238	3
814	Lithiation-Induced Vacancy Engineering of Co <sub>3</sub> O <sub>4</sub> with Improved Faradic Reactivity for High-Performance Supercapacitor. <b>2020</b> , 30, 2004172	63
813	Preparation of petal-particle cross-linking flowerlike NiO for supercapacitor application. <b>2020</b> , 876, 114481	10
812	Oxygen Vacancy-Engineered Ti <sub>1-x</sub> Mo <sub>x</sub> Ni Ternary Oxide Nanotubes as Binder-Free Supercapacitor Electrodes with Exceptional Potential Window. <b>2020</b> , 6, 1513-1518	10
811	Perspectives for electrochemical capacitors and related devices. <b>2020</b> , 19, 1151-1163	493
810	Carboxylate-Functionalized Imidazolium-Based Binary Ionic Liquids as Electrolytes for Symmetric Carbon-Based Supercapacitors. <b>2020</b> , 998, 233-238	
809	Active Materials for Aqueous Zinc Ion Batteries: Synthesis, Crystal Structure, Morphology, and Electrochemistry. <b>2020</b> , 120, 7795-7866	347
808	Biorefining of sugarcane bagasse to fermentable sugars and surface oxygen group-rich hierarchical porous carbon for supercapacitors. <b>2020</b> , 162, 2306-2317	9
807	A three-dimensional structure of ternary carbon for high performance supercapacitor. <b>2020</b> , 109, 108075	7

806	N, S-Codoped Activated Carbon Material with Ultra-High Surface Area for High-Performance Supercapacitors. <b>2020</b> , 12,	5
805	Microwave-assisted synthesis of MoS <sub>2</sub> /graphene composites for supercapacitors. <b>2020</b> , 55, 16385-16393	18
804	Recent progress in sodium/potassium hybrid capacitors. <b>2020</b> , 56, 13933-13949	22
803	Nanoparticle-Based Electrodes with High Charge Transfer Efficiency through Ligand Exchange Layer-by-Layer Assembly. <b>2020</b> , 32, e2001924	8
802	Cucurbit[6]uril-Derived Sub-4 $\mu$ m Pores-Dominated Hierarchical Porous Carbon for Supercapacitors: Operating Voltage Expansion and Pore Size Matching. <b>2020</b> , 16, e2002718	17
801	Synergistic Effects of Phosphorus and Boron Co-Incorporated Activated Carbon for Ultrafast Zinc-Ion Hybrid Supercapacitors. <b>2020</b> , 12, 41342-41349	73
800	Cucurbit[6]uril-Derived Nitrogen-Doped Hierarchical Porous Carbon Confined in Graphene Network for Potassium-Ion Hybrid Capacitors. <b>2020</b> , 7, 2001681	42
799	Phase Engineering of Nanomaterials for Clean Energy and Catalytic Applications. <b>2020</b> , 10, 2002019	39
798	Mesoporous Mn-doped and carbon-coated NaTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> nanocrystals as an anode material for improved performance of sodium-ion hybrid capacitors. <b>2020</b> , 31, 17550-17562	2
797	MXene/N-Doped Carbon Foam with Three-Dimensional Hollow Neuron-like Architecture for Freestanding, Highly Compressible All Solid-State Supercapacitors. <b>2020</b> , 12, 44777-44788	41
796	Interface Chemistry on MXene-Based Materials for Enhanced Energy Storage and Conversion Performance. <b>2020</b> , 30, 2005190	51
795	In situ low-temperature hydrothermal synthesis of LiMn <sub>2</sub> O <sub>4</sub> nanocomposites based on graphene oxide/carbon nanotubes hydrogel and its capacities. <b>2020</b> , 35, 2516-2527	2
794	Niobium Tungsten Oxide in a Green Water-in-Salt Electrolyte Enables Ultra-Stable Aqueous Lithium-Ion Capacitors. <b>2020</b> , 12, 168	19
793	Reactive Plasma N-Doping of Amorphous Carbon Electrodes: Decoupling Disorder and Chemical Effects on Capacitive and Electrocatalytic Performance. <b>2020</b> , 8, 593932	1
792	Deciphering the Influence of Electrolytes on the Energy Storage Mechanism of Vertically-Oriented Graphene Nanosheet Electrodes by Using Advanced Electrogravimetric Methods. <b>2020</b> , 10,	
791	Facile fabrication of comb-like porous NiCo <sub>2</sub> O <sub>4</sub> nanoneedles on Ni foam as an advanced electrode for high-performance supercapacitor. <b>2020</b> , 45, 32343-32354	13
790	A semiclassical Thomas-Fermi model to tune the metallicity of electrodes in molecular simulations. <b>2020</b> , 153, 174704	19
789	Metal-Organic Framework-Derived Anode and Polyaniline Chain Networked Cathode with Mesoporous and Conductive Pathways for High Energy Density, Ultrafast Rechargeable, and Long-Life Hybrid Capacitors. <b>2020</b> , 10, 2001851	16

788	Transforming waste sugar solution into N-doped hierarchical porous carbon for high performance supercapacitors in aqueous electrolytes and ionic liquid. <b>2020</b> , 45, 31367-31379	5
787	Mass-zero constrained molecular dynamics for electrode charges in simulations of electrochemical systems. <b>2020</b> , 152, 194701	6
786	Two-Dimensional Transition Metal Oxide and Hydroxide-Based Hierarchical Architectures for Advanced Supercapacitor Materials. <b>2020</b> , 8, 390	25
785	Fabrication and electrochemical properties of manganese dioxide coated on cobalt silicate nanobelts core-shell composites for hybrid supercapacitors. <b>2020</b> , 600, 124951	7
784	A N, O co-doped hierarchical carbon cathode for high-performance Zn-ion hybrid supercapacitors with enhanced pseudocapacitance. <b>2020</b> , 8, 11617-11625	58
783	An Overview of Bacterial Cellulose in Flexible Electrochemical Energy Storage. <b>2020</b> , 13, 3731	12
782	Hydrothermally synthesized zinc phosphate-rGO composites for supercapattery devices. <b>2020</b> , 871, 114299	10
781	Nitrogen-oxygen co-doped porous carbons prepared by mild potassium hydroxide activation of cicada slough for high-performance supercapacitors. <b>2020</b> , 29, 101433	4
780	Ce(OH) as a novel negative electrode material for supercapacitors. <b>2020</b> , 31, 374003	8
779	Synthesis of highly ordered mesoporous carbons nanofiber web based on electrospinning strategy for supercapacitor. <b>2020</b> , 305, 110283	9
778	Hierarchical CuO@ZnCoDH core-shell heterostructure on copper foam as three-dimensional binder-free electrodes for high performance asymmetric supercapacitors. <b>2020</b> , 465, 228239	20
777	Hierarchical polyimide-derived nitrogen self-doped carbon nanoflowers for large operating voltage aqueous supercapacitor. <b>2020</b> , 30, 101493	10
776	A covalently linked dual network structure achieved by rapid grafting of poly(p-phenylenediamine)-phosphomolybdic acid on reduced graphene oxide aerogel for improving the performance of supercapacitors. <b>2020</b> , 56, 7305-7308	6
775	Flexible reduced graphene oxide/prussian blue films for hybrid supercapacitors. <b>2020</b> , 397, 125521	17
774	Urchin-like NiCoP coated with a carbon layer as a high-performance electrode for all-solid-state asymmetric supercapacitors. <b>2020</b> , 1, 481-494	9
773	Nanoengineered Skeleton-surface of Nickel Foam with Additional Dual Functions of Rate-capability Promotion and Cycling-life Stabilization for Nickel Sulfide Electrodes. <b>2020</b> , 6, 1365-1372	
772	Emulsion-Tailored Pore Properties and Electrochemical Performance of Ni(OH) <sub>2</sub> Spheres Using High Shear as Driving Force. <b>2020</b> , 217, 2000135	
771	A systematic approach to achieve high energy density hybrid supercapacitors based on NiCoBe hydroxide. <b>2020</b> , 353, 136578	8

770	Electrolyte gating in graphene-based supercapacitors and its use for probing nanoconfined charging dynamics. <b>2020</b> , 15, 683-689	25
769	A gateway to understanding confined ions. <b>2020</b> , 15, 628-629	0
768	Anchoring mesoporous Fe <sub>3</sub> O <sub>4</sub> nanospheres onto N-doped carbon nanotubes toward high-performance composite electrodes for supercapacitors. <b>2020</b> , 46, 22373-22382	7
767	Sub-nanometer-scale fine regulation of interlayer distance in Ni <sub>2</sub> O layered double hydroxides leading to high-rate supercapacitors. <b>2020</b> , 76, 105026	38
766	Transport and Durability of Energy Storage Materials Operating at High Temperatures. <b>2020</b> , 14, 7696-7703	11
765	A Highly Elastic and Fatigue-Resistant Natural Protein-Reinforced Hydrogel Electrolyte for Reversible-Compressible Quasi-Solid-State Supercapacitors. <b>2020</b> , 7, 2000587	20
764	All Pseudocapacitive Nitrogen-Doped Reduced Graphene Oxide and Polyaniline Nanowire Network for High-Performance Flexible On-Chip Energy Storage. <b>2020</b> , 3, 6845-6852	7
763	An orderly arrangement of layered carbon Nanosheet/TiO <sub>2</sub> nanosheet stack with superior artificially interfacial lithium pseudocapacity. <b>2020</b> , 468, 228363	8
762	Hydroxyl-functionalized microporous polymer for enhanced CO <sub>2</sub> uptake and efficient super-capacitor energy storage. <b>2020</b> , 154, 104670	5
761	Maximization of Spatial Charge Density: An Approach to Ultrahigh Energy Density of Capacitive Charge Storage. <b>2020</b> , 132, 14649-14657	14
760	Maximization of Spatial Charge Density: An Approach to Ultrahigh Energy Density of Capacitive Charge Storage. <b>2020</b> , 59, 14541-14549	34
759	Transparent Supercapacitors: From Optical Theories to Optoelectronics Applications. <b>2020</b> , 3, 265-285	6
758	O/N Co-Doped, Layered Porous Carbon with Mesoporosity up to 99 % for Ultrahigh-Rate Capability Supercapacitors. <b>2020</b> , 3, 1091-1098	6
757	The cyclic regeneration of templates during the preparation of mesoporous graphene fibers with excellent capacitive behavior in the fluidized-bed chemical vapor deposition process. <b>2020</b> , 221, 115657	2
756	One-Step and Morphology-Controlled Synthesis of Ni-Co Binary Hydroxide on Nickel Foam for High-Performance Supercapacitors. <b>2020</b> , 10, 3814	1
755	Rational designing Ni <sub>3</sub> -xFe <sub>x</sub> S <sub>2</sub> nanosheet arrays on Ni foam to enhance supercapacitor performance. <b>2020</b> , 26, 3677-3683	2
754	Fast Charging Materials for High Power Applications. <b>2020</b> , 10, 2001128	48
753	Nanostructured Fe <sub>2</sub> O <sub>3</sub> @nitrogen-doped multiwalled nanotube/cellulose nanocrystal composite material electrodes for high-performance supercapacitor applications. <b>2020</b> , 9, 7615-7627	13



752	Nitrogen and Phosphorus Co-doped Porous Carbon for High-Performance Supercapacitors. <b>2020</b> , 8, 105	10
751	Observation of Ion Electrosorption in Metal-Organic Framework Micropores with In Operando Small-Angle Neutron Scattering. <b>2020</b> , 59, 9773-9779	4
750	Microstructure design of porous nanocarbons for ultrahigh-energy and power density supercapacitors in ionic liquid electrolyte. <b>2020</b> , 55, 7477-7491	8
749	Synthesis of carbon frameworks with N, O and S-lined pores from gallic acid and thiourea for superior CO <sub>2</sub> adsorption and supercapacitors. <b>2020</b> , 63, 748-757	14
748	Supercapacitors: prospects and future direction. <b>2020</b> , 373-380	0
747	Interlayer gap widened phase molybdenum trioxide as high-rate anodes for dual-ion-intercalation energy storage devices. <b>2020</b> , 11, 1348	55
746	Switchable Supercapacitors with Transistor-Like Gating Characteristics (G-Cap). <b>2020</b> , 30, 1910439	9
745	Optimization of Electrochemical Flow Capacitor (EFC) design via finite element modeling. <b>2020</b> , 29, 101304	1
744	Ni and Ce oxide-based hollow fibers as battery-like electrodes. <b>2020</b> , 830, 154633	6
743	Biocompatible Mesoporous Hollow Carbon Nanocapsules for High Performance Supercapacitors. <b>2020</b> , 10, 4306	10
742	3D printing of cellular materials for advanced electrochemical energy storage and conversion. <b>2020</b> , 12, 7416-7432	30
741	High-loading Co-doped NiO nanosheets on carbon-welded carbon nanotube framework enabling rapid charge kinetic for enhanced supercapacitor performance. <b>2020</b> , 50, 240-247	19
740	Role of image charges in ionic liquid confined between metallic interfaces. <b>2020</b> , 22, 10786-10791	15
739	Designed Assembly of Porous Cobalt Oxide/Carbon Nanotentacles on Electrospun Hollow Carbon Nanofibers Network for Supercapacitor. <b>2020</b> , 3, 3435-3444	37
738	Fabrication of high performance structural N-doped hierarchical porous carbon for supercapacitors. <b>2020</b> , 164, 42-50	61
737	Advanced functional polymer materials. <b>2020</b> , 4, 1803-1915	70
736	Carbon nanotube-based electrodes for flexible supercapacitors. <b>2020</b> , 13, 1825-1841	50
735	Observation of Ion Electrosorption in Metal-Organic Framework Micropores with In Operando Small-Angle Neutron Scattering. <b>2020</b> , 132, 9860-9866	4

734	A binder-free electrode based on Ti <sub>3</sub> C <sub>2</sub> Tx-rGO aerogel for supercapacitors. <b>2020</b> , 595, 124683	17
733	Fabrication of nanostructured SnO <sub>2</sub> @Co <sub>3</sub> O <sub>4</sub> /nitrogen doped graphene oxide composite for symmetric and asymmetric storage devices. <b>2020</b> , 9, 4183-4193	8
732	All-climate aqueous supercapacitor enabled by a deep eutectic solvent electrolyte based on salt hydrate. <b>2020</b> , 49, 198-204	28
731	Transition metal based battery-type electrodes in hybrid supercapacitors: A review. <b>2020</b> , 28, 122-145	199
730	Metal-Organic frameworks encapsulated with vanadium-substituted heteropoly acid for highly stable asymmetric supercapacitors. <b>2020</b> , 28, 101292	27
729	Dehydration of Cations Inducing Fast Ion Transfer and High Electrical Capacitance Performance on Graphene Electrode in Aqueous Electrolytes. <b>2020</b> , 59, 5768-5774	2
728	Synergizing Layered Carbon and Gel Electrolyte for Efficient Energy Storage. <b>2020</b> , 8, 4207-4215	12
727	Rational-Designed Hybrid Aerogels for Ultra-Flyweight Electrochemical Energy Storage. <b>2020</b> , 124, 15688-15697	7
726	Optimal Charging and Discharging of Supercapacitors. <b>2020</b> , 167, 110521	5
725	Dual Hybrid Effect Endowing Nickel-Cobalt Sulfides with Enhanced Cycling Stability for Asymmetrical Supercapacitors. <b>2020</b> , 3, 6977-6984	10
724	Green Bio-template Fabrication of Fe Derivatives@Carbon Composites and Porous Carbon Sheets toward Advanced Li-Ion Capacitors as Low-Cost Electrodes. <b>2020</b> , 3, 7159-7166	5
723	Progress and perspectives on pre-lithiation technologies for lithium ion capacitors. <b>2020</b> , 13, 2341-2362	66
722	Water in salt/ionic liquid electrolyte for 2.8V aqueous lithium-ion capacitor. <b>2020</b> , 65, 1812-1822	32
721	Perspective on High-Energy Carbon-Based Supercapacitors. <b>2020</b> , 3, 286-305	35
720	Structural Anomalies and Electronic Properties of an Ionic Liquid under Nanoscale Confinement. <b>2020</b> , 11, 6150-6155	2
719	Effect of pore structure and doping species on charge storage mechanisms in porous carbon-based supercapacitors. <b>2020</b> , 4, 2610-2634	43
718	A three-dimensional carbon electrode derived from bean sprout for supercapacitors. <b>2020</b> , 26, 5705-5714	5
717	Design and synthesis of NiCo <sub>2</sub> O <sub>4</sub> /NiCoO <sub>2</sub> /graphene hybrid nanoarrays with enhanced capacitive performance. <b>2020</b> , 46, 20191-20200	5

7 <sup>16</sup>	Amorphous cobalt hydroxysulfide nanosheets with regulated electronic structure for high-performance electrochemical energy storage. <b>2020</b> , 63, 2303-2313	7
7 <sup>15</sup>	Boosting charge storage in 1D manganese oxide-carbon composite by phosphorus-assisted structural modification for supercapacitor applications. <b>2020</b> , 31, 172-180	16
7 <sup>14</sup>	Ultrathin 2D Metal-Organic Framework Nanosheets In situ Interpenetrated by Functional CNTs for Hybrid Energy Storage Device. <b>2020</b> , 12, 46	57
7 <sup>13</sup>	Porous Graphitic Carbon Fibers for Fast-Charging Supercapacitor Applications. <b>2020</b> , 8, 2000050	9
7 <sup>12</sup>	Cyclic Voltammetry Synthesis of Polyaniline as Supercapacitors Electrode. <b>2020</b> , 21, 1833-1839	0
7 <sup>11</sup>	Interference of electrical double layers: Confinement effects on structure, dynamics, and screening of ionic liquids. <b>2020</b> , 152, 074709	12
7 <sup>10</sup>	Willow Bark for Sustainable Energy Storage Systems. <b>2020</b> , 13,	4
7 <sup>09</sup>	Activated Carbon by One-Step Calcination of Deoxygenated Agar for High Voltage Lithium Ion Supercapacitor. <b>2020</b> , 8, 3637-3643	18
7 <sup>08</sup>	Tuning the interlayer spacing of graphene laminate films for efficient pore utilization towards compact capacitive energy storage. <i>Nature Energy</i> , <b>2020</b> , 5, 160-168	62.3 205
7 <sup>07</sup>	Two-step synthesis of millimeter-scale flexible tubular supercapacitors. <b>2020</b> , 3,	9
7 <sup>06</sup>	Interweaving Activated Carbon with Multi-dimensional Carbon Nanomaterials for High-performance Supercapacitors. <b>2020</b> , 167, 040507	5
7 <sup>05</sup>	Facile Multivalent Redox Chemistries in Water-in-Bisalt Hydrogel Electrolytes for Hybrid Energy Storage Full Cells. <b>2020</b> , 5, 1054-1061	14
7 <sup>04</sup>	Synthesis of a Porous CN-Derived Framework with High Yield by Gallic Acid Cross-Linking Using Salt Melts. <b>2020</b> , 12, 13127-13133	7
7 <sup>03</sup>	Flexible and Wearable Solar Cells and Supercapacitors. <b>2020</b> , 87-129	3
7 <sup>02</sup>	Binder-free heterostructured MWCNTs/Al <sub>2</sub> S <sub>3</sub> decorated on NiCo foam as highly reversible cathode material for high-performance supercapacitors. <b>2020</b> , 340, 135955	22
7 <sup>01</sup>	N <sup>DB</sup> Co-doped Hierarchical Porous Carbons Derived from Calcium Lignosulfonate for High-Performance Supercapacitors. <b>2020</b> , 34, 3909-3922	19
7 <sup>00</sup>	A first-principles investigation of the structural and electrochemical properties of biredox ionic species in acetonitrile. <b>2020</b> , 22, 10561-10568	5
6 <sup>99</sup>	Hierarchical NiMoO@CoVO hybrid nanorod/nanosphere clusters as advanced electrodes for high-performance electrochemical energy storage. <b>2020</b> , 12, 3763-3776	18

698	In situ preparation of flaky attached CuCo <sub>2</sub> S <sub>4</sub> microspheres for high-performance asymmetric supercapacitors. <b>2020</b> , 26, 3555-3563	3
697	A robust 2D porous carbon nanoflake cathode for high energy-power density Zn-ion hybrid supercapacitor applications. <b>2020</b> , 510, 145384	66
696	Influence of composite ratio on Ni/Co composite oxide supercapacitor. <b>2020</b> , 35, 195-201	6
695	Tailoring mulberry-like Fe <sub>2</sub> O <sub>3</sub> architecture assembled by quantum dots on rGO to enable high pseudocapacitance and controllable solid electrolyte interphase. <b>2020</b> , 388, 124119	11
694	Comparison of organic electrolytes at various temperatures for 2.8V Li-ion hybrid supercapacitors. <b>2020</b> , 337, 135760	9
693	Self-supported core-shell heterostructure MnO <sub>2</sub> /NiCo-LDH composite for flexible high-performance supercapacitor. <b>2020</b> , 824, 153929	27
692	Inner Layer Capacitance of Organic Electrolytes from Constant Voltage Molecular Dynamics. <b>2020</b> , 124, 2907-2922	14
691	Hierarchical N-doped hollow carbon microspheres as advanced materials for high-performance lithium-ion capacitors. <b>2020</b> , 8, 3956-3966	27
690	Dual-Strategy to Construct Aqueous-Based Symmetric Supercapacitors with High Volumetric Energy Density. <b>2020</b> , 7, 838-845	5
689	Construction of polypyrrole-wrapped hierarchical CoMoO <sub>4</sub> nanotubes as a high-performance electrode for supercapacitors. <b>2020</b> , 46, 10893-10902	12
688	NiCo <sub>2</sub> S <sub>4</sub> quantum dots with high redox reactivity for hybrid supercapacitors. <b>2020</b> , 388, 124109	31
687	Biomass-derived porous graphitic carbon materials for energy and environmental applications. <b>2020</b> , 8, 5773-5811	110
686	Ion Structure Transition Enhances Charging Dynamics in Subnanometer Pores. <b>2020</b> , 14, 2395-2403	29
685	Free energy barriers for TMEA <sup>+</sup> , TMA <sup>+</sup> , and BF <sub>4</sub> <sup>-</sup> ion diffusion through nanoporous carbon electrodes. <b>2020</b> , 161, 550-561	6
684	Exploring doped or vacancy-modified graphene-based electrodes for applications in asymmetric supercapacitors. <b>2020</b> , 22, 3906-3913	13
683	Cation intercalated one-dimensional manganese hydroxide nanorods and hierarchical mesoporous activated carbon nanosheets with ultrahigh capacitance retention asymmetric supercapacitors. <b>2020</b> , 566, 485-494	17
682	Boosting the supercapacitor performances of activated carbon with carbon nanomaterials. <b>2020</b> , 450, 227678	66
681	An ultrafast supercapacitor built by Co <sub>3</sub> O <sub>4</sub> with tertiary hierarchical architecture. <b>2020</b> , 174, 109219	23

680	An amorphous carbon nitride/NiO/CoN-based composite: a highly efficient nonprecious electrode for supercapacitors and the oxygen evolution reaction. <b>2020</b> , 12, 7024-7034	19
679	Engineering 3D Graphene-Based Materials: State of the Art and Perspectives. <b>2020</b> , 25,	9
678	Carbon nanotubes decorated NiSe <sub>2</sub> nanosheets for high-performance supercapacitors. <b>2020</b> , 452, 227793	63
677	Nanoporous structures of metal oxides-loaded graphene nanocomposites and their energy storage performance. <b>2020</b> , 26, 1063-1072	1
676	Lithium-Ion Capacitors with TME Lithium Powder Pre-embedded for Tetramethylethylene Applications. <b>2020</b> , 49, 4045-4052	1
675	Rational design and construction of nickel molybdate nanohybrid composite for high-performance supercapattery. <b>2020</b> , 515, 146023	10
674	Activated coal-based graphene with hierarchical porous structures for ultra-high energy density supercapacitors. <b>2020</b> , 106, 107827	13
673	Engineering the interface for promoting ionic/electronic transmission of organic flexible supercapacitors with high volumetric energy density. <b>2020</b> , 460, 228097	15
672	Triboelectric-nanogenerator-integrated structural supercapacitor based on highly active P-doped branched CuMn selenide nanowires for efficient energy harvesting and storage. <b>2020</b> , 73, 104754	36
671	One-dimensional mesoporous inorganic nanostructures and their applications in energy, sensor, catalysis and adsorption. <b>2020</b> , 113, 100671	39
670	Recent Advances in Supercapacitors: Ultrafast Materials Make Innovations. <b>2020</b> , 88, 83-87	4
669	Facile synthesis of ternary nanocomposite of polypyrrole incorporated with cobalt oxide and silver nanoparticles for high performance supercapattery. <b>2020</b> , 348, 136313	23
668	Tuning the Wrinkles in 3D Graphene Architectures for Mass and Electron Transport. <b>2020</b> , 7, 1902190	2
667	Ultrafast microwave synthesis of rambutan-like CMK-3/carbon nanotubes nanocomposites for high-performance supercapacitor electrode materials. <b>2020</b> , 10, 6227	7
666	High Surface Area Nanoporous Graphitic Carbon Materials Derived from Lapsi Seed with Enhanced Supercapacitance. <b>2020</b> , 10,	17
665	Fabrication and Applications of 3D Nanoarchitectures for Advanced Electrocatalysts and Sensors. <b>2020</b> , 32, e1907500	10
664	Microstructural and Dynamical Heterogeneities in Ionic Liquids. <b>2020</b> , 120, 5798-5877	120
663	Carbide-Derived Niobium Pentoxide with Enhanced Charge Storage Capacity for Use as a Lithium-Ion Battery Electrode. <b>2020</b> , 3, 4275-4285	13

- 662 Achieving a 2.7 V aqueous hybrid supercapacitor by the pH-regulation of electrolyte. **2020**, 8, 8648-8660 18
- 661 Plasma-induced on-surface sulfur vacancies in NiCo<sub>2</sub>S<sub>4</sub> enhance the energy storage performance of supercapacitors. **2020**, 8, 9278-9291 27
- 660 High performance supercapacitor based on camphor sulfonic acid doped polyaniline/multiwall carbon nanotubes nanocomposite. **2020**, 347, 136229 32
- 659 Nanoporous carbon for electrochemical capacitive energy storage. **2020**, 49, 3005-3039 169
- 658 Advances in in-situ characterizations of electrode materials for better supercapacitors. **2021**, 54, 242-253 17
- 657 Interphases, Interfaces, and Surfaces of Active Materials in Rechargeable Batteries and Perovskite Solar Cells. **2021**, 33, e1905245 18
- 656 An aqueous zinc-ion hybrid super-capacitor for achieving ultrahigh-volumetric energy density. **2021**, 32, 926-931 19
- 655 Recent advancement made in the field of reduced graphene oxide-based nanocomposites used in the energy storage devices: A review. **2021**, 33, 102032 19
- 654 A Living Biotic/Abiotic Composite that can Switch Function Between Current Generation and Electrochemical Energy Storage. **2021**, 31, 2007351 8
- 653 A novel grafting-template method to prepare three-dimensional hierarchical porous carbon with high surface area and electrical conductivity for superior-performance supercapacitors. **2021**, 482, 228922 13
- 652 A high-performance battery-like supercapacitor electrode with a continuous NiTe network skeleton running throughout Co(OH)<sub>2</sub>/Co<sub>9</sub>S<sub>8</sub> nanohybrid. **2021**, 365, 137325 19
- 651 Three-dimensional hierarchical porous carbon derived from lignin for supercapacitors: Insight into the hydrothermal carbonization and activation. **2021**, 166, 923-933 9
- 650 Toward commercial-level mass-loading electrodes for supercapacitors: opportunities, challenges and perspectives. **2021**, 14, 576-601 56
- 649 Self-Supported Binder-Free Hybrid Electrodes of Cu@CuO Nanowires/Carbon Nanotubes for Supercapacitors with Ultrahigh Areal-Capacitance. **2021**, 9, 2000744 1
- 648 Investigation on electrochemical behaviour of manganese vanadate nanopebbles as potential electrode material for supercapacitors. **2021**, 857, 157628 4
- 647 Unveiling the pseudocapacitive effects of ultramesopores on nanoporous carbon. **2021**, 537, 148037 3
- 646 Nickel foam-supported starfish-like Ni(OH)<sub>2</sub>@CoS nanostructure with obvious core-shell heterogeneous interfaces for hybrid supercapacitors application. **2021**, 56, 3280-3295 7
- 645 New cathode material of NiCo<sub>2</sub>Cr<sub>x</sub>-OH (x=0, 1, 1.5, 2.0) and anode material of one-off chopsticks derived carbon for high performance supercapacitor. **2021**, 851, 156792 6

644	Toward Flexible Zinc-Ion Hybrid Capacitors with Superhigh Energy Density and Ultralong Cycling Life: The Pivotal Role of ZnCl <sub>2</sub> Salt-Based Electrolytes. <b>2021</b> , 133, 1003-1010	12
643	In-situ hydrothermal synthesis of MnO <sub>2</sub> /soybean pod carbon and its high performance application on supercapacitor. <b>2021</b> , 853, 157357	8
642	Direct growth of highly organized, 2D ultra-thin nano-accordion Ni-MOF@NiS <sub>2</sub> @C core-shell for high performance energy storage device. <b>2021</b> , 406, 126810	19
641	Recent research advances of self-discharge in supercapacitors: Mechanisms and suppressing strategies. <b>2021</b> , 58, 94-109	32
640	Design and synthesis of PbBiVO <sub>5</sub> electrode by polymorph engineering for rechargeable battery. <b>2021</b> , 293, 121777	1
639	Recent progress in energy storage and conversion of flexible symmetric transducers. <b>2021</b> , 9, 753-781	5
638	Intercalation pseudocapacitance in Bi <sub>2</sub> Se <sub>3</sub> /MnO <sub>2</sub> nanotube composite for high electrochemical energy storage. <b>2021</b> , 367, 137531	6
637	Operando Tailoring of Defects and Strains in Corrugated Ni(OH) <sub>2</sub> Nanosheets for Stable and High-Rate Energy Storage. <b>2021</b> , 33, e2006147	21
636	Non-corrosive and low-cost synthesis of hierarchically porous carbon frameworks for high-performance lithium-ion capacitors. <b>2021</b> , 173, 646-654	12
635	Binary composites of nickel-manganese phosphates for supercapattery devices. <b>2021</b> , 33, 102020	10
634	Hybrid electrochemical energy storage systems: An overview for smart grid and electrified vehicle applications. <b>2021</b> , 139, 110581	36
633	Three-dimensional porous carbon materials derived from locust for efficient N-O-S co-doped supercapacitors by facile self-template and in-situ doping method. <b>2021</b> , 213, 106677	7
632	Facile synthesis of V <sub>2</sub> O <sub>5</sub> /graphene composites as advanced electrode materials in supercapacitors. <b>2021</b> , 862, 158006	14
631	Template-free synthesis of novel Co <sub>3</sub> O <sub>4</sub> micro-bundles assembled with flakes for high-performance hybrid supercapacitors. <b>2021</b> , 47, 716-724	23
630	Hierarchical porous carbon derived from Gardenia jasminoides Ellis flowers for high performance supercapacitor. <b>2021</b> , 33, 102061	15
629	Hierarchical porous "skin/skeleton"-like MXene/biomass derived carbon fibers heterostructure for self-supporting, flexible all solid-state supercapacitors. <b>2021</b> , 410, 124565	17
628	Influence of template agent on NiMoO <sub>4</sub> for high-performance hybrid energy storage devices. <b>2021</b> , 27, 875-887	1
627	Recent advancements of copper oxide based nanomaterials for supercapacitor applications. <b>2021</b> , 34, 101995	19

626	In situ analysis of pore size effect of ionic solvation during the formation of double electric layers. <b>2021</b> , 880, 114846	0
625	Electrochemical performance of N-doped superporous activated carbons in ionic liquid-based electrolytes. <b>2021</b> , 368, 137590	2
624	Polyaniline/reduced graphene oxide nanosheets on TiO <sub>2</sub> nanotube arrays as a high-performance supercapacitor electrode: Understanding the origin of high rate capability. <b>2021</b> , 368, 137615	8
623	A novel fabricated conductive substrate for enhancing the mass loading of NiCoLDH nanosheets for high areal specific capacity in hybrid supercapacitors. <b>2021</b> , 368, 137621	8
622	Advanced carbon nanomaterials for state-of-the-art flexible supercapacitors. <b>2021</b> , 36, 56-76	82
621	Multi-sized nanosheets cobalt-iron layered double hydroxide grown on nickel foam as high performance supercapacitor electrode material. <b>2021</b> , 33, 102088	5
620	Rare earth metal La-doped induced electrochemical evolution of LiV <sub>3</sub> O <sub>8</sub> with an oxygen vacancy toward a high energy-storage capacity. <b>2021</b> , 9, 1845-1858	13
619	Ultrahigh surface area biomass derived 3D hierarchical porous carbon nanosheet electrodes for high energy density supercapacitors. <b>2021</b> , 174, 463-474	56
618	Optimized synergistic preparation of nitrogen-doped porous carbon derived from gasified carbon for supercapacitors. <b>2021</b> , 860, 158385	6
617	Facile synthesis of strontium ferrite nanorods/graphene composites as advanced electrode materials for supercapacitors. <b>2021</b> , 588, 795-803	11
616	Improved pseudocapacitances of supercapacitors based on electrodes of nitrogen-doped Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> nanosheets with in-situ growth of carbon nanotubes. <b>2021</b> , 859, 158347	3
615	Sub-nanopores-containing N,O-codoped porous carbon from molecular-scale networked polymer hydrogel for solid-state supercapacitor. <b>2021</b> , 32, 1111-1116	4
614	A Critical Review on the Voltage Requirement in Hybrid Cells with Solar Energy Harvesting and Energy Storage Capability. <b>2021</b> , 4, 252-267	5
613	Structural evolution of porous graphitic carbon nanosheets based on quinonyl decomposition for supercapacitor electrodes. <b>2021</b> , 537, 147824	17
612	Polyaniline-silver-manganese dioxide nanorod ternary composite for asymmetric supercapacitor with remarkable electrochemical performance. <b>2021</b> , 46, 474-485	21
611	S-doped 3D porous carbons derived from potassium thioacetate activation strategy for zinc-ion hybrid supercapacitor applications. <b>2021</b> , 45, 2498-2510	18
610	Toward Flexible Zinc-Ion Hybrid Capacitors with Superhigh Energy Density and Ultralong Cycling Life: The Pivotal Role of ZnCl Salt-Based Electrolytes. <b>2021</b> , 60, 990-997	75
609	Green Precursors and Soft Templating for Printing Porous Carbon-Based Micro-supercapacitors. <b>2021</b> , 27, 1356-1363	4



608	Nanoporous Transition Metal Oxide-Based Electrodes for Supercapacitor Application. <b>2021</b> , 623-672	2
607	An Overview on Design Parameters of Practical Lithium-Ion Capacitors. <b>2021</b> , 4, 749-757	9
606	The rise of flexible zinc-ion hybrid capacitors: advances, challenges, and outlooks. <b>2021</b> , 9, 19054-19082	16
605	Robust, flexible, freestanding and high surface area activated carbon and multi-walled carbon nanotubes composite material with outstanding electrode properties for aqueous-based supercapacitors. <b>2021</b> , 2, 4264-4276	3
604	NMR analysis of phosphoric acid distribution in porous fuel cell catalysts. <b>2021</b> , 57, 2547-2550	1
603	Graphene-Based Carbons of Tuned Nanoporosity and Crystallinity. <b>2021</b> , 153-174	
602	Switching of alternative electrochemical charging mechanism inside single-walled carbon nanotubes: a quartz crystal microbalance study.. <b>2021</b> , 11, 30253-30258	0
601	Understanding and tackling lattice manganese exfoliation and deactivation of battery-type NiMn-LDH in fast electrochemical energy storage.	1
600	Synthesis of Two-Dimensional Sr-Doped LaNiO Nanosheets with Improved Electrochemical Performance for Energy Storage. <b>2021</b> , 11,	3
599	Emerging beyond-graphene elemental 2D materials for energy and catalysis applications. <b>2021</b> , 50, 10983-11031	31
598	In Situ Synthesis of a Polyaniline/ Fe-Ni Codoped CoO Composite for the Electrode Material of Supercapacitors with Improved Cyclic Stability. <b>2021</b> , 6, 1190-1196	10
597	One-Step Synthesis of Annual Ring-Shaped Planar Nitrogen/Sulfur Co-Doped Nanoporous Graphene for Supercapacitance.	
596	Design and assembly of a high stability asymmetric supercapacitor based on pseudocapacitive zincBickel sulfide nanosheets and fast ion-transport carbon nanosheets. <b>2021</b> , 45, 1301-1308	1
595	Salt sealing strategy to prepare N,O-codoped porous bio-carbon derived from Ephedra Herb for supercapacitors. <b>2021</b> , 45, 16648-16657	2
594	Microwave assisted growth of MnO2 on biomass carbon for advanced supercapacitor electrode materials. <b>2021</b> , 56, 6987-6996	4
593	Thionated benzo[c]thiophen-1(3H)-one as an organic cathode with high capacity for sulfur-rich all organic lithium-ion batteries. <b>2021</b> , 9, 14444-14450	3
592	CHAPTER 15:Surface Structures and Their Reactions in Transition Metal Oxides. <b>2021</b> , 460-482	
591	Progress and Perspective: MXene and MXene-Based Nanomaterials for High-Performance Energy Storage Devices. <b>2021</b> , 7, 2000967	28

- 590 Scalable electrode materials with nanoporous current collector shells for supercapacitors with ultrahigh areal and volumetric capacitances. **2021**, 9, 21302-21312 3
- 589 Ion regulation of ionic liquid electrolytes for supercapacitors. **2021**, 14, 2859-2882 13
- 588 Boosting Energy Storage via Confining Soluble Redox Species onto Solid-Liquid Interface. **2021**, 11, 2003599 15
- 587 Boosting the capacity of biomass-based supercapacitors using carbon materials of wood derivatives and redox molecules from plants. **2021**, 9, 11839-11852 17
- 586 Operando Leaching of Pre-Incorporated Al and Mechanism in Transition Metal Hybrids for Elaborately Enhanced Charge Storage.
- 585 Design of unique porous carbons with double support structure: toward overall performance by employing bidirectional anchoring strategy. **2021**, 9, 5075-5085 7
- 584 Growth of bimodal NiCo<sub>2</sub>O<sub>4</sub>/MnO<sub>2</sub> nanorods in situ on carbon fiber paper synergistically affects their electrochemical properties. **2021**, 45, 5399-5409 9
- 583 A robust magnesiothermic reduction combined self-activation strategy towards highly-curved carbon nanosheets for advanced zinc-ion hybrid supercapacitors applications. **2021**, 32, 185403 3
- 582 Designing Rational Interfacial Bonds for Hierarchical Mineral-Type Trogtalite with Double Carbon towards Ultra-Fast Sodium-Ions Storage Properties. **2021**, 31, 2100156 13
- 581 VO Nanoparticles Confined in High-Conductivity and High-Throughput Carbon Nanofiber Nanohybrids for Advanced Sodium-Ion Capacitors. **2021**, 13, 10001-10012 11
- 580 Atomic Layer Deposition (ALD) of Alumina over Activated Carbon Electrodes Enabling a Stable 4 V Supercapacitor Operation. **2021**, 10, 402-407 1
- 579 Reversible Intercalation of Al-Ions in Poly(3,4-Ethylenedioxythiophene):Poly(4-Styrenesulfonate) Electrode for Aqueous Electrochemical Capacitors with High Energy Density. **2021**, 9, 2001036 1
- 578 Designing a Zn(BF<sub>4</sub>)<sub>2</sub>-Based Ionic Liquid Electrolyte to Realize Superior Energy Density in a Carbon-Based Zinc-Ion Hybrid Capacitor. **2021**, 8, 1289-1297 5
- 577 High-Capacitance Pseudocapacitors from Li Ion Intercalation in Nonporous, Electrically Conductive 2D Coordination Polymers. **2021**, 143, 2285-2292 31
- 576 Recent progress of mesoporous materials for high performance supercapacitors. **2021**, 314, 110870 13
- 575 A review of charge storage in porous carbon-based supercapacitors. **2021**, 36, 49-68 48
- 574 Planar Graphene-Based Microsupercapacitors. **2021**, 17, e2006827 7
- 573 Towards High-Performance Zinc-Based Hybrid Supercapacitors via Macropores-Based Charge Storage in Organic Electrolytes. **2021**, 60, 9610-9617 29

572	A flower-like phase nickel-cobalt-manganese hydroxide modified with two-dimensional Ti3C2 for high performance hybrid supercapacitors. e2100018	1
571	Watermelon Peel-Derived Heteroatom-Doped Hierarchical Porous Carbon as a High-Performance Electrode Material for Supercapacitors. <b>2021</b> , 8, 1196-1203	4
570	Renewable biomass-derived carbons for electrochemical capacitor applications. <b>2021</b> , 1, 211-240	32
569	A Review of Compact Carbon Design for Supercapacitors with High Volumetric Performance. <b>2021</b> , 17, e2007548	13
568	Towards High-Performance Zinc-Based Hybrid Supercapacitors via Macropores-Based Charge Storage in Organic Electrolytes. <b>2021</b> , 133, 9696-9703	5
567	Self-Healable and Eco-Friendly Hydrogels for Flexible Supercapacitors. <b>2021</b> , 5, 2000273	3
566	Graphene Nanosphere as Advanced Electrode Material to Promote High Performance Symmetrical Supercapacitor. <b>2021</b> , 17, e2007915	14
565	Hierarchical Lignin-Based Carbon Matrix and Carbon Dot Composite Electrodes for High-Performance Supercapacitors. <b>2021</b> , 6, 7851-7861	5
564	Design of layered-stacking graphene assemblies as advanced electrodes for supercapacitors. <b>2021</b> ,	0
563	Facile synthesis of iron nickel cobalt ternary oxide (FNCO) mesoporous nanowires as electrode material for supercapacitor application. <b>2021</b> ,	1
562	N/P co-doped porous carbon microspheres for supercapacitor with long-term electrochemical stability. <b>2021</b> , 36, 1250-1261	2
561	Simulations of Ionic Liquids Confined in Surface-Functionalized Nanoporous Carbons: Implications for Energy Storage. <b>2021</b> , 4, 4007-4015	3
560	Structural Reorganization of Ionic Liquid Electrolyte by a Rapid Charge/Discharge Circle. <b>2021</b> , 12, 2273-2278	6
559	Significantly Enhanced Electrochemical Redox for High-Performance Electrochemical Capacitor via Active Ion-Tunnel Oriented BaCoF4 Electrodes. <b>2021</b> , 11, 2003734	3
558	Synchronized ion and electron transfer in a blue T-Nb2O5-x with solid-solution-like process for fast and high volumetric charge storage. <b>2021</b> , 36, 213-221	8
557	Expeditious synthesis of 3D pyramidal faceted CuSbS2 architectures manifesting unrivalled pseudo capacitive energy storage. <b>2021</b> , 289, 129412	1
556	Intensified Energy Storage in High-Voltage Nanohybrid Supercapacitors the Efficient Coupling between TiNbO/Holey-rGO Nanoarchitectures and Ionic Liquid-Based Electrolytes. <b>2021</b> , 13, 21349-21361	6
555	Eco-conversion of coal into a nonporous graphite for high-performance anodes of lithium-ion batteries. <b>2021</b> , 382, 40-47	6

554	Sandwich-like honeycomb Co <sub>2</sub> SiO <sub>4</sub> /rGO/honeycomb Co <sub>2</sub> SiO <sub>4</sub> structures with enhanced electrochemical properties for high-performance hybrid supercapacitor. <b>2021</b> , 492, 229643	38
553	Controlling potential difference between electrodes based on self-consistent-charge density functional tight binding. <b>2021</b> , 154, 144107	5
552	One-step synthesis of Co <sub>9</sub> S <sub>8</sub> /NiS composite with enhanced charge storage performance for supercapacitors application. <b>2021</b> , 27, 3143-3152	1
551	Nanopore structure analysis of single wall carbon nanotube xerogels and cryogels. <b>2021</b> , 27, 673-681	1
550	Fabrication and properties of coral-like Ni/Mn-MOFs as electrode materials for supercapacitors. <b>2021</b> , 32, 13430-13439	2
549	3D flower-like MOF-derived NiCo-LDH integrated with Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> for high-performance pseudosupercapacitors. <b>2021</b> , 376, 138040	8
548	Molecular Simulation of Electrode-Solution Interfaces. <b>2021</b> , 72, 189-212	24
547	Application of multi-active center organic quinone molecular functionalized graphene in fully pseudocapacitive asymmetric supercapacitors. <b>2021</b> ,	2
546	Ce-Doped PANI/Fe <sub>3</sub> O <sub>4</sub> Nanocomposites: Electrode Materials for Supercapattery. <b>2021</b> , 3,	2
545	Controllable preparation of nitrogen-doped hierarchical and honeycomb-like porous carbon/graphene based on composites of graphene oxide and polyaniline nanorod arrays for high performance supercapacitors. <b>2021</b> , 36, 102314	5
544	Co S @CN Composites Obtained from Thiocalix[4]arene-Based Coordination Polymers for Supercapacitor Applications. <b>2021</b> , 16, 1486-1492	1
543	Fabrication of Rambutan-like Activated Carbon Sphere/Carbon Nanotubes and Their Application as Supercapacitors. <b>2021</b> , 35, 8313-8320	5
542	Oxygen Vacancy Enhanced Two-Dimensional Lithium Titanate for Ultrafast and Long-Life Bifunctional Lithium Storage. <b>2021</b> , 13, 18876-18886	8
541	Emergence of melanin-inspired supercapacitors. <b>2021</b> , 37, 101075	41
540	Scalable Synthesis of Atomically Thin Gallium Telluride Nanosheets for Supercapacitor Applications. <b>2021</b> , 4, 4829-4838	15
539	Design and Fabrication of Hierarchical NiCoP-MOF Heterostructure with Enhanced Pseudocapacitive Properties. <b>2021</b> , 17, e2100353	31
538	The subtracting pore effect method for an accurate and reliable surface area determination of porous carbons. <b>2021</b> , 175, 77-86	6
537	Electrochemical Zinc Ion Capacitors: Fundamentals, Materials, and Systems. <b>2021</b> , 11, 2100201	37

536	Binder-free preparation of bimetallic oxide vertical nanosheet arrays toward high-rate performance and energy density supercapacitors. <b>2021</b> , 45, 13999-14009	3
535	The construction of hierarchical PEDOT@MoS <sub>2</sub> nanocomposite for high-performance supercapacitor. <b>2021</b> , 546, 149088	3
534	Conductive Hydrogel-Based Electrodes and Electrolytes for Stretchable and Self-Healable Supercapacitors. <b>2021</b> , 31, 2101303	52
533	Pseudocapacitive Anode Materials toward High-Power Sodium-Ion Capacitors. <b>2021</b> , 4, 1567	12
532	Nickel-manganese phosphate: An efficient battery-grade electrode for supercapattery devices. <b>2021</b> , 47, 11220-11230	15
531	Electrode thickness design toward bulk energy storage devices with high areal/volumetric energy density. <b>2021</b> , 289, 116734	13
530	Tuning growth of MoS <sub>2</sub> nanowires over NiTiCu nanostructured array for flexible supercapacitive electrodes with enhanced Li-ion storage. <b>2021</b> , 118, 223902	4
529	Efficient synthesis of acetylene-bridged carbazole-based dimer for electrochemical energy storage: Experimental and DFT studies. <b>2021</b> , 889, 115225	1
528	A review on recent advances in hierarchically porous metal and metal oxide nanostructures as electrode materials for supercapacitors and non-enzymatic glucose sensors. <b>2021</b> , 25, 101228	10
527	Confinement-Controlled Aqueous Chemistry within Nanometric Slit Pores. <b>2021</b> , 121, 6293-6320	19
526	Asymmetric Flexible Supercapacitors: An Overview of Principle, Materials and Mechanism. <b>2021</b> , 315-348	0
525	Nitrogen-Doped Porous Carbon Derived from Cellulose Microfibers of Rice Straw for High-Performance Electrodes of Supercapacitors. <b>2021</b> , 35, 10190-10198	3
524	Origin of Asymmetric Electric Double Layers at Electrified Oxide/Electrolyte Interfaces. <b>2021</b> , 12, 4616-4622	9
523	Resistivity of mesopore-confined ionic liquid determined by electrochemical impedance spectroscopy. <b>2021</b> , 378, 138112	1
522	An oxygen-deficient cobalt-manganese oxide nanowire doped with P designed for high performance asymmetric supercapacitor. <b>2021</b> , 379, 138178	14
521	Toward Efficient Synthesis of Porous All-Carbon-Based Nanocomposites for Enantiospecific Separation. <b>2021</b> , 13, 24228-24237	2
520	Tough-Hydrogel Reinforced Low-Tortuosity Conductive Networks for Stretchable and High-Performance Supercapacitors. <b>2021</b> , 33, e2100983	17
519	In situ and operando force-based atomic force microscopy for probing local functionality in energy storage materials. e2100038	3

518	Review on innovative sustainable nanomaterials to enhance the performance of supercapacitors. <b>2021</b> , 37, 102474	13
517	Conductive polypyrrole incorporated nanocellulose/MoS <sub>2</sub> film for preparing flexible supercapacitor electrodes. <b>2021</b> , 15, 227-240	2
516	The Advance and Perspective on Electrode Materials for Metal/Ion Hybrid Capacitors. <b>2021</b> , 2, 2100022	4
515	Pyrolysis of Enzymolysis-Treated Wood: Hierarchically Assembled Porous Carbon Electrode for Advanced Energy Storage Devices. <b>2021</b> , 31, 2101077	26
514	Wearable technologies enable high-performance textile supercapacitors with flexible, breathable and wearable characteristics for future energy storage. <b>2021</b> , 37, 94-122	25
513	Metal-organic frameworks as highly efficient electrodes for long cycling stability supercapacitors. <b>2021</b> , 46, 18179-18206	12
512	High precision implicit function learning for forecasting supercapacitor state of health based on Gaussian process regression. <b>2021</b> , 11, 12112	0
511	Phosphorus-doped thick carbon electrode for high-energy density and long-life supercapacitors. <b>2021</b> , 414, 128767	34
510	Hierarchical MnNiCo ternary metal oxide/graphene nanoplatelets composites as high rated electrode material for supercapacitors. <b>2021</b> , 47, 17008-17014	11
509	Rational design of MXene-based films for energy storage: Progress, prospects. <b>2021</b> , 46, 183-211	19
508	Relationship between Multivalent Cation Charge Carriers and Organic Solvents on Nanoporous Carbons in 4V-Window Magnesium Ion Supercapacitors. <b>2021</b> , 11, 2101054	6
507	Towards high performance flexible planar supercapacitors: In-situ laser scribing doping and reduction of graphene oxide films. <b>2021</b> , 551, 149457	4
506	Cucurbit[8]uril-derived porous carbon as high-performance electrode material for ionic liquid-based supercapacitor. <b>2021</b> , 38, 102527	1
505	New method for N-doped micro/meso porous carbon as electrode material for high-performance supercapacitors. <b>2021</b> , 320, 111085	2
504	Boosting Areal Capacitance and Energy Density of a Flexible Supercapacitor Based on High-Mass-Loading Layered Double Hydroxides. <b>2021</b> , 4, 6302-6309	4
503	Preparation of AgNWs@NiO/Co <sub>3</sub> O <sub>4</sub> dopant material for an activated carbon thin-film electrode of pseudocapacitors. <b>2021</b> , 56, 15229-15240	1
502	Adapting a Kinetics-Enhanced Carbon Nanostructure to Li/Na Hybrid Water-in-Salt Electrolyte for High-Energy Aqueous Supercapacitors. <b>2021</b> , 4, 5727-5737	38
501	Sustainable porous hollow carbon spheres with high specific surface area derived from Kraft lignin. <b>2021</b> , 32, 2064-2073	10

500	Bimetallic metal organic frameworks heterogeneous catalysts: Design, construction, and applications. <b>2021</b> , 20, 100667	12
499	FeCoP nanosheets@Ni-Co carbonate hydroxide nanoneedles as free-standing electrode material for hybrid supercapacitors. <b>2021</b> , 415, 128995	10
498	Flexible polytriphenylamine-based cathodes with reinforced energy-storage capacity for high-performance sodium-ion batteries. 1	0
497	Review Clay Mineral Materials for Electrochemical Capacitance Application. <b>2021</b> , 168, 070558	10
496	Covalently Aligned Molybdenum Disulfide-Carbon Nanotubes Heteroarchitecture for High-Performance Electrochemical Capacitors. <b>2021</b> , 60, 21295-21303	7
495	High energy density supercapacitor electrode materials based on mixed metal MOF and its derived C@bimetal hydroxide embedded onto porous support. <b>2021</b> , 277, 116775	2
494	Preparation of Cotton Fiber-derived Porous-carbon Materials and Their Application as High-performance Supercapacitors. 1-8	0
493	Hierarchical Co <sub>3</sub> S <sub>4</sub> /CoS/MoS <sub>2</sub> leaf-like nanoflakes array derived from Co-ZIF-L as an advanced anode for flexible supercapacitor. <b>2021</b> , 870, 159393	9
492	Covalently Aligned Molybdenum Disulfide-Carbon Nanotubes Heteroarchitecture for High-Performance Electrochemical Capacitors. <b>2021</b> , 133, 21465-21473	1
491	Vertically aligned two-dimensional materials-based thick electrodes for scalable energy storage systems. <b>2021</b> , 14, 3562-3575	8
490	MoS <sub>2</sub> -based nanocomposites: synthesis, structure, and applications in water remediation and energy storage: a review. <b>2021</b> , 19, 3645-3681	12
489	Effect of the metallicity on the capacitance of gold-aqueous sodium chloride interfaces. <b>2021</b> , 155, 044703	5
488	Manganese Silicate Nanosheets for Quasi-Solid-State Hybrid Supercapacitors. <b>2021</b> , 4, 8173-8183	10
487	Nonhalogenated Surface-Active Ionic Liquid as an Electrolyte for Supercapacitors. <b>2021</b> , 4, 7775-7785	2
486	Cold Atmospheric Plasma (CAP) Technology and Applications. <b>2021</b> , 6, i-191	0
485	Bilayered NiZn(CO <sub>3</sub> )(OH) <sub>2</sub> /Ni <sub>2</sub> (CO <sub>3</sub> )(OH) <sub>2</sub> nanocomposites as positive electrode for supercapacitors. <b>2021</b> , 86, 106076	9
484	Biomass derived activated carbon based hybrid supercapacitors. <b>2021</b> , 40, 102751	4
483	Quantifying ion desolvation effects on capacitances of nanoporous electrodes with liquid electrolytes. <b>2021</b> , 240, 116662	2

482	Experimental and theoretical realization of an advanced bifunctional 2D MnO <sub>2</sub> electrode for supercapacitor and oxygen evolution reaction via defect engineering. <b>2021</b> , 46, 28028-28042	6
481	Innovative approach for the synthesis of graphene/MnO <sub>2</sub> nanocomposites and their electrochemical behavior. 2100029	0
480	Surface Engineering of Carbon via Coupled Porosity Tuning and Heteroatom-Doping for High-Performance Flexible Fibrous Supercapacitors. 2104256	2
479	Synthesis of nickel cobalt manganese metal organic framework@high quality graphene composites as novel electrode materials for high performance supercapacitors. <b>2021</b> , 895, 115452	1
478	Carbon electrodes with ionophobic characteristics in organic electrolyte for high-performance electric double-layer capacitors. 1	4
477	Synergistic integration of three-dimensional architecture composed of two-dimensional nanostructure ternary metal oxide for high-performance hybrid supercapacitors.	0
476	Lignocellulosic Biomass-Derived Carbon Electrodes for Flexible Supercapacitors: An Overview. <b>2021</b> , 14,	6
475	Operando leaching of pre-incorporated Al and mechanism in transition-metal hybrids on carbon substrates for enhanced charge storage. <b>2021</b> , 4, 2902-2918	5
474	Construction of hierarchical ZnCo <sub>2</sub> O <sub>4</sub> @CoSe core-shell nanosheets on Ni foam for high-performance supercapacitor. 1	0
473	A Review on Nanocellulose and Its Application in Supercapacitors. 2100556	1
472	Gradient oxygen vacancies in BiVO <sub>4</sub> olive-seeds nanostructure for electrochemical supercapacitor applications. <b>2021</b> , 269, 124737	1
471	From manganese oxide to manganese sulphide: Synthesis and its effect on electrochemical energy storage performance. <b>2021</b> , 389, 138711	2
470	Crumpled MXene Electrodes for Ultrastretchable and High-Area-Capacitance Supercapacitors. <b>2021</b> , 21, 7561-7568	9
469	2.4V high performance supercapacitors enabled by polymer-strengthened 3D aqueous electrolyte. <b>2021</b> , 505, 230078	4
468	Spontaneous three-dimensional self-assembly of MXene and graphene for impressive energy and rate performance pseudocapacitors. <b>2021</b> , 391, 138959	5
467	Microsphere structure application for supercapacitor in situ temperature monitoring. <b>2021</b> , 30, 10LT01	
466	Synthesis of Highly Ion-Conductive Lignin Eutectogels in a Ternary Deep Eutectic Solvent and Nitrogen-Doped 3D Hierarchical Porous Carbons for Supercapacitors. <b>2021</b> , 22, 4181-4190	3
465	A Template-engaged, Self-doped Strategy to N-doped Hollow Carbon Nanoboxes for Zinc-ion Hybrid Supercapacitors.	0



464	Solution-processable hierarchical-porous vanadium nitride films on silicon substrates for highly efficient symmetric supercapacitors. <b>2021</b> , 507, 230269	2
463	Three-dimensional printing of graphene-based materials for energy storage and conversion. <b>2021</b> , 1, 304-323	16
462	Synthesis and plasma treatment of nitrogen-doped graphene fibers for high-performance supercapacitors. <b>2021</b> , 48, 2058-2058	3
461	Mechanisms of porous carbon-based supercapacitors.	2
460	Conducting polymer hydrogels as a sustainable platform for advanced energy, biomedical and environmental applications. <b>2021</b> , 786, 147430	6
459	Boosted electrochemical performance of CuS anchored on carbon cloth as an integrated electrode for quasi-solid-state flexible supercapacitor. <b>2021</b> , 897, 115610	3
458	Nanolayers of carbon protected copper oxide nanocomposite for high performance energy storage and non-enzymatic glucose sensor. <b>2021</b> , 875, 160063	7
457	Applications of Carbon Nanotubes in the Internet of Things Era. <b>2021</b> , 13, 191	8
456	Super-Flexible Carbon Nanofiber Networks Containing PAN/PVP and Composites Coated with NiCo <sub>2</sub> O <sub>4</sub> Nanosheets as Self-Supporting Electrodes for Supercapacitors and Sodium-Ion Batteries**. <b>2021</b> , 8, 3894	0
455	Monte Carlo simulations and mean-field modeling of electric double layers at weakly and moderately charged spherical macroions. <b>2021</b> , 104, 034609	1
454	Structure-Capacitance Relationships of Graphene/Ionic Liquid Electrolyte Double Layers. <b>2021</b> , 125, 20204-20218	3
453	Tailoring the supercapacitive behaviors of Co/Zn-ZIF derived nanoporous carbon via incorporating transition metal species: A hybrid experimental-computational exploration. <b>2021</b> , 419, 129636	11
452	Single-Step Preparation of Ultrasmall Iron Oxide-Embedded Carbon Nanotubes on Carbon Cloth with Excellent Superhydrophilicity and Enhanced Supercapacitor Performance. <b>2021</b> , 13, 45670-45678	5
451	Fast and low-consumption granular NiCo-LDH/graphene nanosheet composites for high-performance supercapacitor electrodes. <b>2021</b> , 32, 23750-23761	1
450	Oxygen incorporated in 1T/2H hybrid MoS <sub>2</sub> nanoflowers prepared from molybdenum blue solution for asymmetric supercapacitor applications. <b>2021</b> , 419, 129701	12
449	Laser-Irradiated Holey Graphene-Supported Single-Atom Catalyst towards Hydrogen Evolution and Oxygen Reduction. <b>2021</b> , 11, 2101619	14
448	Design principles of high-voltage aqueous supercapacitors. <b>2021</b> , 21, 100739	8
447	Template assisted synthesis of porous termite nest-like manganese cobalt phosphide as binder-free electrode for supercapacitors. <b>2021</b> , 393, 139060	3

446	Understanding electrochemical capacitors with in-situ techniques. <b>2021</b> , 149, 111418	14
445	One-step synthesis of annual ring-shaped planar nitrogen/sulfur co-doped nanoporous graphene for supercapacitance. <b>2021</b> , 394, 139137	3
444	Conducting polymer/graphene hydrogel electrodes based aqueous smart Supercapacitors: A review and future prospects. <b>2021</b> , 898, 115626	6
443	Self-templated hollow nanospheres of B-site engineered non-stoichiometric perovskite for supercapacitive energy storage via anion-intercalation mechanism. <b>2021</b> , 600, 729-739	10
442	Realizing high-voltage and ultralong-life supercapacitors by a universal interfacial engineering strategy. <b>2021</b> , 510, 230406	1
441	High entropy spinel metal oxide (CoCrFeMnNi) <sub>3</sub> O <sub>4</sub> nanoparticles as a high-performance supercapacitor electrode material. <b>2021</b> , 42, 103004	10
440	Dual-Ion Intercalation and High Volumetric Capacitance in a Two-Dimensional Non-Porous Coordination Polymer. <b>2021</b> ,	5
439	Ultra-small CuNi nanoalloy as a high-performance supercapacitor electrode material and highly durable methanol oxidation electrocatalyst. <b>2021</b> , 102, 95-102	4
438	Porous carbon spheres anode with the stable output of low delithiation plateau and constant delithiation ratio for lithium ion hybrid capacitor. <b>2021</b> , 58, 196-205	0
437	Construction of hierarchically porous biomass carbon using iodine as pore-making agent for energy storage. <b>2021</b> , 599, 351-359	3
436	Dual-Ion Intercalation and High Volumetric Capacitance in a Two-Dimensional Non-Porous Coordination Polymer.	
435	Enhanced specific capacity and cycle stability of hybrid supercapacitors using carbonized polyphosphazene-based nanocomposites. <b>2021</b> , 397, 139297	0
434	Hierarchical porous carbon from mango seed husk for electro-chemical energy storage. <b>2021</b> , 8, 100158	10
433	Fabrication of aqueous solid-state symmetric supercapacitors based on self-healable poly (acrylamide)/PEDOT:PSS composite hydrogel electrolytes. <b>2021</b> , 273, 125125	2
432	Energy-aware system design for batteryless LPWAN devices in IoT applications. <b>2021</b> , 122, 102625	4
431	Sepiolite/amorphous nickel hydroxide hierarchical structure for high capacitive supercapacitor. <b>2021</b> , 881, 160519	4
430	Design and fabrication of bimetallic oxide nanonest-like structure/carbon cloth composite electrode for supercapacitors. <b>2021</b> , 47, 30747-30755	11
429	Enhancing the Cycling Stability of Transition-Metal-Oxide-Based Electrochemical Electrode via Pourbaix Diagram Engineering. <b>2021</b> , 42, 252-258	7

428	Performance modeling of unmanaged hybrid battery/supercapacitor energy storage systems. <b>2021</b> , 43, 103185	0
427	Boosted energy storage via carbon surface passivation. <b>2021</b> , 185, 105-112	2
426	A multidimensional rational design of nickel-iron sulfide and carbon nanotubes on diatomite via synergistic modulation strategy for supercapacitors. <b>2021</b> , 603, 799-809	39
425	Self-assembly of MOF on MXene nanosheets and in-situ conversion into superior nickel phosphates/MXene battery-type electrode. <b>2021</b> , 425, 130602	18
424	High energy recovery from salinity gradients in a concentration flow cell enhanced by bioelectrochemical currents. <b>2021</b> , 426, 130826	
423	A temperature-dependent phosphorus doping on TiCT MXene for enhanced supercapacitance. <b>2021</b> , 604, 239-247	4
422	Molybdenophosphate thin film decorated on the surface of MoS <sub>2</sub> nanoflakes for aqueous K-ion capacitors. <b>2022</b> , 428, 131179	4
421	Redox-etching induced porous carbon cloth with pseudocapacitive oxygenic groups for flexible symmetric supercapacitor. <b>2022</b> , 64, 136-143	8
420	Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene based hybrid electrodes for wearable supercapacitors with varied deformation capabilities. <b>2022</b> , 429, 132232	3
419	Fundamentals, Mechanisms and Key Performance Factors in Super-Capacitor. <b>2021</b> ,	0
418	Metal-organic framework for batteries and supercapacitors. <b>2021</b> , 19-35	0
417	High-Energy and High-Power Pseudocapacitor-Battery Hybrid Sodium-Ion Capacitor with Na Intercalation Pseudocapacitance Anode. <b>2021</b> , 13, 55	19
416	Nanostructured Metal Oxide-Based Electrode Materials for Ultracapacitors. <b>2021</b> , 561-599	1
415	Mesoscopic simulations of the NMR spectra of porous carbon based supercapacitors: electronic structure and adsorbent reorganisation effects. <b>2021</b> , 23, 15925-15934	2
414	Minimization of ion transport resistance: diblock copolymer micelle derived nitrogen-doped hierarchically porous carbon spheres for superior rate and power Zn-ion capacitors. <b>2021</b> , 9, 8435-8443	14
413	Comparing Graphite and Graphene Oxide Supercapacitors with a Constant Potential Model. <b>2021</b> , 125, 2318-2326	4
412	Tunable built-in electric fields enable high-performance one-dimensional co-axial MoO <sub>x</sub> /MoON heterojunction nanotube arrays for thin-film pseudocapacitive charge storage devices. <b>2021</b> , 9, 13263-13270	2
411	Nitrogen-rich anthraquinoneBriazine conjugated microporous polymer networks as high-performance supercapacitor. <b>2021</b> , 45, 17278-17286	1

410	Two-birds-one-stone: multifunctional supercapacitors beyond traditional energy storage. <b>2021</b> , 14, 1854-1896	67
409	Effect of the carbonization temperature of plant biomass on the structure, surface condition and electrical conductive properties of carbon nanoporous material. <b>2021</b> , 25,	1
408	Specific carbon/iodide interactions in electrochemical capacitors monitored by EQCM technique. <b>2021</b> , 14, 2381-2393	5
407	Facile synthesis of hierarchically porous carbon for supercapacitor derived from water-soluble pitch. 631, 012101	0
406	Synergistically boosting the electrochemical performance of polypyrrole-coated activated carbon derived from carbon dots for a high-performance supercapacitor. <b>2021</b> , 57, 9264-9267	4
405	Glycerol-assisted tuning of the phase and morphology of iron oxide nanostructures for supercapacitor electrode materials. <b>2021</b> , 5, 2758-2770	6
404	Selective deposition of metal oxide nanoflakes on graphene electrodes to obtain high-performance asymmetric micro-supercapacitors. <b>2021</b> , 13, 3285-3294	5
403	Functional hydrogel-based supercapacitors for wearable bioelectronic devices.	4
402	Fast Permeation of Small Ions in Carbon Nanotubes. <b>2021</b> , 8, 2001802	6
401	Quantifying the Role of Nanotubes in Nano:Nano Composite Supercapacitor Electrodes. <b>2018</b> , 8, 1702364	25
400	Porous Organic Polymers as Fire-Resistant Additives and Precursors for Hyperporous Carbon towards Oxygen Reduction Reactions. <b>2020</b> , 9, 593-598	4
399	RETRACTED: Ultra-fast one-step synthesis and surface engineering of mesoporous 3D $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> hollow nanospheres for high-performance and stable negative electrode for supercapacitors. <b>2020</b> , 526, 146634	5
398	Electroactive FeS <sub>2</sub> -modified MoS <sub>2</sub> nanosheet for high-performance supercapacitor. <b>2020</b> , 824, 153936	42
397	Molecular understanding of charge storage and charging dynamics in supercapacitors with MOF electrodes and ionic liquid electrolytes. <b>2020</b> , 19, 552-558	208
396	A carbon nanopore model to quantify structure and kinetics of ion electrosorption with in situ small-angle X-ray scattering. <b>2017</b> , 19, 15549-15561	30
395	Smart electrochromic supercapacitors based on highly stable transparent conductive graphene/CuS network electrodes. <b>2017</b> , 7, 29088-29095	20
394	2D nanosheet/3D cubic framework Ni-Co sulfides for improved supercapacitor performance via structural engineering. <b>2020</b> , 49, 8162-8168	9
393	Interface engineering of CoO nanowire arrays with ultrafine NiO nanowires for high-performance rechargeable alkaline batteries. <b>2020</b> , 49, 8582-8590	33

392	Macroscopic surface charges from microscopic simulations. <b>2020</b> , 153, 164709	6
391	Review Photoelectrochemical Cathodic Protection in The Dark: A Review of Nanocomposite and Energy-Storing Photoanodes. <b>2020</b> , 167, 121505	19
390	Template Assisted Synthesis of Nanoporous Carbon from Bio-Weed of Ipomoea carnea Stems for Supercapacitor Applications. <b>2019</b> , 31, 1163-1168	1
389	Wide Voltage Aqueous Asymmetric Supercapacitors: Advances, Strategies, and Challenges. 2108107	15
388	Post-Illumination Photoconductivity Enables Extension of Photo-Catalysis after Sunset. <b>2021</b> , 11, 2101566	5
387	Sub-Nanometer Confined Ions and Solvent Molecules Intercalation Capacitance in Microslits of 2D Materials. <b>2021</b> , 17, e2104649	2
386	Capacitive energy storage in single-file pores: Exactly solvable models and simulations. <b>2021</b> , 155, 174112	2
385	Understanding the pore-structure dependence of supercapacitive performance for microporous carbon in aqueous KOH and H2SO4 electrolytes. <b>2021</b> , 139422	1
384	Novel poly(1H-benzo[g]indole)/TiO2 nanocomposites for high-performance electrochromic supercapacitor application. <b>2021</b> , 59, 3100	0
383	Wood-Derived Monolithic Ultrathick Porous Carbon Electrodes Filled with Reduced Graphene Oxide for High-Performance Supercapacitors with Ultrahigh Areal Capacitances. <b>2021</b> , 8, 4328	2
382	Emerging Two-dimensional Materials Constructed Nanofluidic Fiber: Properties, Preparation and Applications. 1	1
381	Carbon-carbon supercapacitors: Beyond the average pore size or how electrolyte confinement and inaccessible pores affect the capacitance. <b>2021</b> , 155, 184703	2
380	Metal-Ion Oligomerization Inside Electrified Carbon Micropores and its Effect on Capacitive Charge Storage. <b>2021</b> , e2107439	5
379	Amorphous Porous Molybdenum Dioxide as an Efficient Supercapacitor Electrode Material. <b>2021</b> , 56, 2100083	0
378	Fabrication of Phosphorus-Doped Cobalt Silicate with Improved Electrochemical Properties. <b>2021</b> , 26,	1
377	Nickel/cobalt phosphate nanoparticle-layer shielded in-situ grown copper/nickel molybdate nanosheets for electrochemical energy storage. <b>2021</b> ,	1
376	Importance and challenges of hydrothermal technique for synthesis of transition metal oxides and composites as supercapacitor electrode materials. <b>2021</b> , 44, 103295	10
375	Gradient architecture to boost the electrochemical capacitance of hard carbon. <b>2021</b> , 515, 230621	3



356	Large-scale mechanical preparation of graphene containing nickel, nitrogen and oxygen dopants as supercapacitor electrode material. <b>2022</b> , 430, 132815	1
355	ZnCl <sub>2</sub> regulate flax-based porous carbon fiber for long cycle stability supercapacitors.	9
354	Enhanced capacitance of manganese oxide driven by hierarchically structured carbon nanotube-carbon nanowall composite. <b>2021</b> , 428, 127885	0
353	Mn(OH) <sub>2</sub> -containing Co(OH) <sub>2</sub> /Ni(OH) <sub>2</sub> Core-shelled Structure for Ultrahigh Energy Density Asymmetric Supercapacitor. <b>2021</b> , 151805	6
352	Preparation of Sulfur-doped Carbon for Supercapacitor Applications: A Review. <b>2021</b> ,	4
351	Integrating Photovoltaic (PV) Solar Cells and Supercapacitors for Sustainable Energy Devices: A Review. <b>2021</b> , 14, 7211	1
350	Layered nanoreactor assisted to produce B-doped and P-doped 3D carbon nanostructures for supercapacitor electrodes. <b>2021</b> , 44, 103514	2
349	Nanocrystalline C-Ni Hybrid Nanoporous Monoliths for Large-Capacity and Ultrahigh-Rate Energy Storage.	0
348	Recycling decoration wastes toward a high-performance porous carbon membrane electrode for supercapacitive energy storage devices.	1
347	Supercapacitors based on electrospun metal oxide nanofibers. <b>2022</b> , 361-393	0
346	Inhibiting Dendrite Growth via Regulating the Electrified Interface for Fast-Charging Lithium Metal Anode.. <b>2021</b> , 7, 2029-2038	5
345	Structure and dynamics of nanoconfined water and aqueous solutions. <b>2021</b> , 44, 136	6
344	Fungal hypha-derived freestanding porous carbon pad as a high-capacity electrode for water desalination in membrane capacitive deionization. <b>2021</b> , 433, 133781	3
343	Tuning the Nanoparticle Interfacial Properties and Stability of the Core-Shell Structure in Zn-Doped NiMoO@AWO. <b>2021</b> , 13, 56116-56130	4
342	Tunable Intracrystal Cavity in Tungsten Bronze-Like Bimetallic Oxides for Electrochromic Energy Storage. 2103106	7
341	Seed-Derived Nitrogen-Doped Hierarchically Porous Carbons as Electrode Materials for High-Performance Supercapacitors.. <b>2021</b> , 11,	1
340	Unearthing of a new science from nanostructured carbons. <b>2021</b> , 2021, 145-160	
339	Recent Progress in Flexible Graphene-Based Composite Fiber Electrodes for Supercapacitors. <b>2021</b> , 11, 1484	3

338	Reversible faradaic reactions involving redox mediators and oxygen-containing groups on carbon fiber electrode for high-performance flexible fibrous supercapacitors. <b>2021</b> , 68, 1-1	0
337	Hierarchical Fe <sub>2</sub> O <sub>3</sub> /MnO <sub>2</sub> /rGO ternary composites as an electrode material for high performance supercapacitors application. <b>2021</b> , 47, 103529	0
336	Modeling galvanostatic charge/discharge of nanoporous supercapacitors. <b>2021</b> , 1, 725-731	7
335	SDBS induced glucose urea derived microporous 2D carbon nanosheets as supercapacitor electrodes with excellent electrochemical performances. <b>2021</b> , 139677	1
334	Conducting polymer hydrogel based electrode materials for supercapacitor applications. <b>2021</b> , 103510	8
333	Applications of 1D Mesoporous Inorganic Nanomaterials in Supercapacitors. <b>2022</b> , 129-141	
332	SWCNT/ZnO nanocomposite decorated with carbon dots for photoresponsive supercapacitor applications. <b>2021</b> , 431, 133915	4
331	Self-assembled BiVO <sub>4</sub> nanorods: A fascinating electrode material for highly efficient pseudocapacitors and electrochemical nitrite sensors. <b>2021</b> , 162, 110517	0
330	Capped Keggin Type Polyoxometalate-Based Inorganic-Organic Hybrids Involving In Situ Ligand Transformation as Supercapacitors and Efficient Electrochemical Sensors for Detecting Cr(VI). <b>2021</b> , 1, 103510	3
329	Supercapacitors operated at extremely low environmental temperatures. <b>2021</b> , 9, 26603-26627	3
328	Hydrothermal Synthesis of MWCNT/Ni-Mn-S Composite Derived from Bimetallic MOF for High-Performance Electrochemical Energy Storage.	
327	Nitrogen doped graphene with diamond-like bonds achieves unprecedented energy density at high power in a symmetric sustainable supercapacitor.. <b>2022</b> , 15, 740-748	4
326	Microstructural evolution of NDB self-doped porous carbons based on heteroatomic migration for supercapacitor electrodes. <b>2022</b> , 33, 2729	0
325	Nitrogen-doped graphene fiber electrodes with optimal micro-/meso-/macro-porosity ratios for high-performance flexible supercapacitors. <b>2022</b> , 520, 230866	1
324	Development of carbon-based copper sulfide nanocomposites for high energy supercapacitor applications: A comprehensive review. <b>2022</b> , 46, 103886	3
323	Supercapattery: Merging of battery-supercapacitor electrodes for hybrid energy storage devices. <b>2022</b> , 46, 103823	9
322	The interfacial electronic engineering in polyhedral MOF derived Co-doped NiSe <sub>2</sub> composite for upgrading rate and longevity performance of aqueous energy storage. <b>2022</b> , 897, 163187	5
321	Intertwined carbon networks derived from Polyimide/Cellulose composite as porous electrode for symmetrical supercapacitor. <b>2021</b> , 609, 179-187	9



320	Construction of interconnected NiCo layered double hydroxides/metal-organic frameworks hybrid nanosheets for high-performance supercapacitor. <b>2022</b> , 48, 103961	7
319	Pyrazine-based organic electrode material for high-performance supercapacitor applications. <b>2022</b> , 48, 103953	2
318	Self-combustion induced hierarchical nanoporous alloy transition toward high area property electrode for supercapacitor. <b>2022</b> , 900, 163443	0
317	Coupling Bimetallic NiMn-MOF Nanosheets on NiCo <sub>2</sub> O <sub>4</sub> Nanowire Arrays with Boosted Electrochemical Performance for Hybrid Supercapacitor. <b>2022</b> , 149, 111707	1
316	Effective microwave-hydrothermal reduction of graphene oxide for efficient energy storage. <b>2022</b> , 48, 103962	0
315	High Yield Design of Mesoporous Tetraikadecahedron-Like Fe <sub>2</sub> O <sub>3</sub> Nanocrystals with Enhanced Supercapacitive Performance.	
314	Ultra-High Energy Stored into Multi-Layered Functional Porous Carbon Tubes Enabled by High-Rate Intercalated Pseudocapacitance.	
313	Tailoring the Structure of Chitosan-Based Porous Carbon Nanofiber Architectures toward Efficient Capacitive Charge Storage and Capacitive Deionization.. <b>2022</b> ,	3
312	Prospects of MXenes/graphene nanocomposites for advanced supercapacitor applications. <b>2022</b> , 905, 115973	2
311	Probing Quantum Capacitance of Typical Two-Dimensional Lattices Based on the Tight-Binding Model. <b>2022</b> , 126, 1256-1263	0
310	Aqueous rocking-chair aluminum-ion capacitors enabled by a self-adaptive electrochemical pore-structure remodeling approach.	5
309	Application of ionic liquids in green energy-storage materials. <b>2022</b> , 155-166	2
308	Effect of the micro-, meso- and macropores on the electrochemical performance of supercapacitors: A review.	0
307	High-frequency electrochemical double layer capacitor based on carbon nanotubes ink coated eggshell membrane electrodes. <b>2022</b> , 45, 103799	0
306	Preparation and supercapacitive properties of 3D flower-like iron metaphosphates based on anodization of iron. <b>2022</b> , 742, 139045	
305	Preparation of nickel-bound porous carbon and its application in supercapacitors.	0
304	N, S co-doped porous carbon with high capacitive performance derived from heteroatom doped phenolic resin. <b>2022</b> , 908, 116069	0
303	Effects of the composition of active carbon electrodes on the impedance performance of the AC/AC supercapacitors. <b>2022</b> , 26, 591-605	0

302	All-cellulose-based quasi-solid-state supercapacitor with nitrogen and boron dual-doped carbon electrodes exhibiting high energy density and excellent cyclic stability. <b>2022,</b>	5
301	Recent advances on fiber-reinforced multifunctional composites for structural supercapacitors. <b>2022, 4, 012001</b>	0
300	Core-sheath heterostructure of MnCo <sub>2</sub> O <sub>4</sub> nanowires wrapped by NiCo-layered double hydroxide as cathode material for high-performance quasi-solid-state asymmetric supercapacitors. <b>2022, 904, 164047</b>	3
299	Tunable surface pseudocapacitance assisted fast and flexible lithium storage of graphene wrapped NiO nano-arrays on nitrogen-doped carbon foams. <b>2022, 407, 139875</b>	
298	Microstructure modification of porous carbon induced by low-dosage manganese nitrate for high-performance supercapacitor electrode. <b>2022, 408, 139928</b>	0
297	Regulating the electrolyte ion types and exposed crystal facets for pseudocapacitive energy storage of transition metal nitrides. <b>2022, 46, 278-288</b>	4
296	Structural characterization and electrochemical performance of Ni-doped Co <sub>9</sub> S <sub>8</sub> for Li-ion battery and asymmetric supercapacitor dual applications. <b>2022, 630, 413707</b>	3
295	Ultrafast pore-tailoring of dense microporous carbon for high volumetric performance supercapacitors in organic electrolyte. <b>2022, 191, 19-27</b>	5
294	In-situ regulation of zinc metal surface for Dendrite-Free Zinc-ion hybrid supercapacitors.. <b>2022, 614, 205-213</b>	1
293	MOF-derived hierarchical core-shell hollow CoS@NiCoO nanosheet arrays for asymmetric supercapacitors.. <b>2022,</b>	4
292	EDL structure of ionic liquid-MXene-based supercapacitor and hydrogen bond role on the interface: a molecular dynamics simulation investigation.. <b>2022,</b>	0
291	N/S co-doped interconnected 3D carbon frameworks for aqueous and high voltage flexible quasi-solid-state supercapacitors. <b>2022, 28, 2377</b>	
290	A New Era of Integrative Ice Frozen Assembly into Multiscale Architecturing of Energy Materials. 2112509	2
289	Hygroscopic chemistry enables fire-tolerant supercapacitors with a self-healable "solute-in-air" electrolyte.. <b>2022, e2109857</b>	2
288	Boosted 2D graphene nanosheets by organic-inorganic hybrid cross-linker for an efficient and stable supercapacitor. <b>2022, 47, 9864-9864</b>	1
287	Facile synthesis of MnO <sub>2</sub> @C@Ni(OH) <sub>2</sub> core-shell nanowires for high-performance supercapacitor. <b>2022, 33, 5192</b>	0
286	Designing Strong Interface of Cubic-like SnO <sub>2</sub> @carbon with SnO <sub>2</sub> as Catalyst for Enhanced Li/Na-Ion Storage Abilities. 2102474	
285	A Survey of Hybrid Energy Devices Based on Supercapacitors. <b>2022,</b>	1

284	Facile synthesis of phosphorus/oxygen co-doped hierarchically porous carbon nanosheets using a layered nanoreactor and moderate porosity for high-performance supercapacitor electrodes. <b>2022</b> , 33, 5501	0
283	Oxygen vacancy inducing phase transition during charge storage in MnOx@rGO supercapacitor electrode. <b>2022</b> , 435, 135103	5
282	Recent progress in template-assisted synthesis of porous carbons for supercapacitors. <b>2022</b> , 1, 100018	13
281	Preparation of Dual-Doped N/P Two-Dimensional Porous Carbon Nanosheets for High-Performance Alkaline Supercapacitors. <b>2022</b> , 5, 137-148	4
280	The low overpotential regime of acidic water oxidation part I: the importance of O2 detection.	2
279	Theory-augmented informatics of ionic liquid electrolytes for co-design with nanoporous electrode materials.. <b>2022</b> ,	0
278	Boron materials for energy applications. <b>2022</b> , 203-289	1
277	Synthesis of TiC nanotube arrays and their excellent supercapacitor performance.	3
276	Biomass-derived porous carbon materials: synthesis, designing, and applications for supercapacitors.	4
275	Pseudocapacitive Storage in Cathode Materials of Aqueous Zinc Ion Batteries toward High Power and Energy Density.	4
274	High-efficiency one-step microwave method for high-performance biomass-based hierarchical porous carbon. 1	0
273	Elucidating Curvature-Capacitance Relationships in Carbon-Based Supercapacitors.. <b>2022</b> , 128, 086001	2
272	Metal-organic-framework as novel electrode materials for hybrid battery-supercapacitor applications.	2
271	Electrospun Nanofiber Covered Polystyrene Micro-Nano Hybrid Structures for Triboelectric Nanogenerator and Supercapacitor.. <b>2022</b> , 13,	1
270	The role of the double layer for the pseudocapacitance of the hydrogen adsorption on platinum.. <b>2022</b> , 12, 3375	0
269	Capacitance of Carbon Nanotube/Graphene Composite Electrodes with [BMIM+][BF4]/Acetonitrile: Fixed Voltage Molecular Dynamics Simulations. <b>2022</b> , 126, 5822-5837	2
268	Chestnut shell-like N-doped carbon coated NiCoP hollow microspheres for hybrid supercapacitors with excellent electrochemical performance. <b>2022</b> , 16, 1	
267	Impact of Bubbles on Electrochemically Active Surface Area of Microtextured Gas-Evolving Electrodes.. <b>2022</b> ,	1

266	Multi-scale simulation of the adsorption of lithium ion on graphite surface: From quantum Monte Carlo to molecular density functional theory.. <b>2022</b> , 156, 094709	0
265	Bitumen and asphaltene derived nanoporous carbon and nickel oxide/carbon composites for supercapacitor electrodes.. <b>2022</b> , 12, 4095	1
264	Evolution of nanoporosity and electrochemical behavior in organosilicon polymer derived carbon hybrids. <b>2022</b> , 48, 8216-8227	
263	In Situ Growth of Ultrathin NiO Nanosheet-Arrays on MOF-Derived Porous Co <sub>3</sub> O <sub>4</sub> Scaffolds as High-Performance Cathode for Asymmetric Supercapacitors. <b>2022</b> , 9,	0
262	A Sustainable Approach for Preparing Porous Carbon Spheres Derived from Kraft Lignin and Sodium Hydroxide as Highly Packed Thin Film Electrode Materials.. <b>2022</b> ,	1
261	Recent progress on supercapacitive performance of agrowaste fibers: a review. 1-43	1
260	Regulating Thermogalvanic Effect and Mechanical Robustness via Redox Ions for Flexible Quasi-Solid-State Thermocells.. <b>2022</b> , 14, 81	6
259	MnO <sub>2</sub> -MXene Composite as Electrode for Supercapacitor. <b>2022</b> , 169, 030524	0
258	2.5 V high performance aqueous and semi-solid-state symmetric supercapacitors enabled by 3 m sulfolane-saturated aqueous electrolytes.	
257	The effects of local graphitization on the charging mechanisms of microporous carbon supercapacitor electrodes. <b>2022</b> , 137, 107258	0
256	Two-dimensional lamellar MXene/three-dimensional network bacterial nanocellulose nanofiber composite Janus membranes as nanofluidic osmotic power generators. <b>2022</b> , 412, 140162	1
255	Microscopic Simulations of Electrochemical Double-Layer Capacitors.. <b>2022</b> ,	5
254	New Structural Insights into Densely Assembled Reduced Graphene Oxide Membranes. 2201535	4
253	Polyphenylene sulfide scaffold based flexible supercapacitor electrode with competitive areal capacitance and flame-retardant behavior. <b>2022</b> , 174, 105216	1
252	High-mass-density nanographene frameworks for compact capacitive energy storage. <b>2022</b> , 529, 231266	0
251	Flexible, ultralight, and high-energy density electrochemical capacitors using sustainable materials. <b>2022</b> , 415, 140239	1
250	Intercalation pseudocapacitive charge storage through enlargement of d-spacing in recrystallized Cr <sub>2</sub> O <sub>3</sub> nanostructures: A supercapbattery. <b>2022</b> , 912, 116234	0
249	Rationally synthesized Mo <sub>2</sub> N nanopyramids for high-performance flexible supercapacitive electrodes with deep insight into the Na-ion storage mechanism. <b>2022</b> , 588, 152925	0

248	3D juniperus sabina-like Ni/Co metal-organic framework as an enhanced electrode material for supercapacitors. <b>2022</b> , 310, 123056	0
247	A bulk Ba <sub>2</sub> Co <sub>3</sub> F <sub>10</sub> electrode: three-dimensional ion tunnels facilitate atomic-scale redox toward high-performance electrochemical capacitors. <b>2022</b> , 438, 135522	0
246	Cobalt-molybdenum selenide double-shelled hollow nanocages derived from metal-organic frameworks as high performance electrodes for hybrid supercapacitor.. <b>2022</b> , 616, 141-151	1
245	Effect of the second heat treatment on the porosity and conductivity of a template-synthesized carbon material for use in supercapacitor electrodes. <b>2022</b> , 128, 106871	1
244	Ultra-high energy stored into multi-layered functional porous carbon tubes enabled by high-rate intercalated pseudocapacitance. <b>2022</b> , 192, 153-161	0
243	ZIF-67 derived in-situ grown NiCo <sub>3</sub> S <sub>4</sub> -GN/CNT interlinked conductive networks for high-performance especially cycling stable supercapacitors. <b>2022</b> , 194, 10-22	2
242	From salt-filled ZIF-8 to open-door nanoporous carbon with optimized pore system for electrochemical supercapacitor with enhanced energy density. <b>2022</b> , 51, 104421	1
241	Ultrathin microporous carbon/few-layer graphene heterostructure for supercapacitor application. <b>2022</b> , 590, 153156	0
240	Sugar beet pulp derived oxygen-rich porous carbons for supercapacitor applications. <b>2022</b> , 51, 104363	3
239	Stable anode enabled by an embossed and punched structure for a high-rate performance Zn-ion hybrid capacitor.	1
238	Bioinspired Catechol-Grafting PEDOT Cathode for an All-Polymer Aqueous Proton Battery with High Voltage and Outstanding Rate Capacity.. <b>2021</b> , e2103896	7
237	Three-Dimensional Porous Network Electrodes with Cu(OH) Nanosheet/NiS Nanowire 2D/1D Heterostructures for Remarkably Cycle-Stable Supercapacitors.. <b>2021</b> , 6, 34276-34285	3
236	Facile Self-Template Synthesis of a Nitrogen-Rich Nanoporous Carbon Wire and Its Application for Energy Storage Devices. <b>2021</b> , 4, 13735-13747	1
235	Flexible Asymmetric Supercapacitors with Extremely Slow Self-Discharge Rate Enabled by a Bilayer Heterostructure Polymer Electrolyte. 2108794	1
234	Formation of NiMoO <sub>4</sub> Anisotropic Nanostructures under Hydrothermal Conditions. <b>2021</b> , 66, 1779-1784	0
233	Highly ordered nanoscale phosphomolybdate-grafted polyaniline/metal hybrid layered structures prepared via secondary sputtering phenomenon as high-performance pseudocapacitor electrodes. <b>2021</b> , 96, 125882	0
232	Insights into the Influence of Key Preparation Parameters on the Performance of MoS <sub>2</sub> /Graphene Oxide Composites as Active Materials in Supercapacitors. <b>2021</b> , 11, 1553	0
231	Structural Insights into the Lithium Ion Storage Behaviors of Niobium Tungsten Double Oxides. <b>2022</b> , 34, 388-398	2

- 230 Microscopic origin of the effect of substrate metallicity on interfacial free energies. **2021**, 118, 1
- 229 Pseudocapacitance of Microporous Carbon/Polyaniline Composites. **2022**, 58, 87-93
- 228 Hybridization of 2D Nanomaterials with 3D Graphene Architectures for Electrochemical Energy Storage and Conversion. 2202319 1
- 227 Enhanced nanofluidic transport in activated carbon nanoconduits.. **2022**, 2
- 226 Recent advances in solid-state supercapacitors: From emerging materials to advanced applications. 1
- 225 Effect of cobalt doping on the enhanced energy storage performance of 2D vanadium diselenide: Experimental and theoretical investigations.. **2022**, 1
- 224 How chemical defects influence the charging of nanoporous carbon supercapacitors.. **2022**, 119, e2121945119 0
- 223 A Variational Method Guided Confining Tip Discharge for MOF-Derived Supercapacitors. **2022**, 136452 0
- 222 Impedance Modeling for Mixed Conductors with Simultaneous Insertion & Electrocatalytic Reactions: A Case Study of Transition-Metal Hydroxides in Aqueous Electrolyte. 0
- 221 Lignosulfonate functionalized nanomaterials for enhancement of the electrochemical performance of polyaniline. **2022**, 153457 0
- 220 Hierarchically nitrogen-doped mesoporous carbon nanospheres with dual ion adsorption capability for superior rate and ultra-stable zinc ion hybrid supercapacitors. 1 2
- 219 Electrochemical deposition of uniform and porous Co/Ni layered double hydroxide nanosheets on nickel foam for supercapacitor electrode with improved electrochemical efficiency. **2022**, 50, 104638 2
- 218 MnO<sub>2</sub> Films deposited on CuO nanomaterials as electrode materials for supercapacitors. **2022**, 911, 165003 2
- 217 Table\_1.docx. **2019**,
- 216 Data\_Sheet\_1.docx. **2020**,
- 215 Data\_Sheet\_1.docx. **2019**,
- 214 Data\_Sheet\_1.PDF. **2020**,
- 213 Table\_1.DOC. **2019**,

212	Designing a High-Energy-Density Asymmetric Supercapacitor Device by Completely Converted Biomass.	
211	Understanding the Capacitive Charge in Bulk Porous Electrodes by Mathematical Modeling. <b>2022</b> , 17,	0
210	NickelCobalt-Layered Double Hydroxide Nanosheets Supported on NiMoO <sub>4</sub> Nanorods with Enhanced Stability for Asymmetric Supercapacitors.	0
209	One-pot synthesis of Mn-doped goethite composite for enhanced supercapacitor performance and charge storage mechanism.	
208	Decorating activated carbon: insight to the difference and the storage mechanism of loading NiO and MnO <sub>2</sub> . 1	
207	High-Energy-Density Sputtered Iridium Oxide Micro-Supercapacitors Operating in Physiological Electrolytes. <b>2022</b> , 169, 050508	
206	Rational-design heteroatom-doped cathode and ion modulation layer modified Zn anode for ultrafast zinc-ion hybrid capacitors with simultaneous high power and energy densities. <b>2022</b> , 536, 231484	1
205	Evaporation-induced hydrated graphene/polyaniline/carbon cloth integration towards high mass loading supercapacitor electrodes. <b>2022</b> , 445, 136727	3
204	High-performance solid-state supercapacitors integrated with thermal management systems based on phase change materials: All in one. <b>2022</b> , 446, 136787	1
203	Cation and anion (de)intercalation into MXene/Perovskite oxides for high-rate intercalation pseudocapacitance. <b>2022</b> , 50, 86-95	2
202	Flexible supercapacitors based on nanocomposites of MOFs. <b>2022</b> , 439-459	
201	Chemical co-activated modified small mesoporous carbon derived from nature anthracite toward enhanced supercapacitive behaviors. <b>2022</b> , 116417	
200	Biochar electrocatalysts for clean energy applications. <b>2022</b> , 333-343	
199	Performance of sunflower petal shaped CuCo <sub>2</sub> S <sub>4</sub> wrapping on GO asymmetric capacitor for energy storage applications. <b>2022</b> , 109133	0
198	Engineering of Transition Metal Sulfide Nanostructures as Efficient Electrodes for High-Performance Supercapacitors.	3
197	A review on biomass-derived N-doped carbons as electrocatalysts in electrochemical energy applications. <b>2022</b> , 446, 137116	4
196	Effect of ethylene carbonate addition on ion aggregates, ion pairs and free ions of polyvinyl alcohol-methylcellulose host: Selection of polymer electrolyte for possible energy devices application. <b>2022</b> , 29,	1
195	Three dimensional FeCo <sub>2</sub> O <sub>4</sub> nanosheets for integrated all-solid-state supercapacitors and electrochemical energy-saving H <sub>2</sub> production. <b>2022</b> , 126332	1

194	2-Ethylhexylsulfate Anion-based Surface-Active Ionic Liquids (SAILs) as Temperature Persistent Electrolytes for Supercapacitors. <b>2022</b> , 100034	0
193	High Energy Density Lithium-Ion Capacitor Enabled by Nitrogen-doped Amorphous Carbon Linked Hierarchically Porous Co <sub>3</sub> O <sub>4</sub> Nanofibers Anode and Porous Carbon Polyhedron Cathode. <b>2022</b> , 165726	1
192	Recent Progresses of Metal-Organic Framework-Based Materials in Electrochemical Energy Storage. <b>2022</b> , 100174	0
191	Determination of reliable resistance values for electrical double-layer capacitors. <b>2022</b> , 16, 100098	0
190	Potassium formate-based electrolytes for high performance aqueous electrochemical capacitors. <b>2022</b> , 541, 231657	0
189	Sulfides and selenides as electrodes for supercapacitor. <b>2022</b> , 733-757	
188	3D printed interdigitated supercapacitor using reduced graphene oxide-MnO <sub>x</sub> /Mn <sub>3</sub> O <sub>4</sub> based electrodes. <b>2022</b> , 12, 17321-17329	1
187	Tuning Carbon Contents and Further Capacitances of Coordination Polymer-Derived Carbonaceous Composites by Annealing Temperatures.	0
186	A Review of MnO <sub>2</sub> Composites Incorporated with Conductive Materials for Energy Storage.	0
185	In Operando Visualization and Dynamic Manipulation of Electrochemical Processes at the Electrode-Solution Interface.	
184	Revealing Kinetics Process of Fast Charge-Storage Behavior Associated with Potential in 2D Polyaniline. 2200257	0
183	Electrochemical Proton Storage: From Fundamental Understanding to Materials to Devices. <b>2022</b> , 14,	2
182	In Operando Visualization and Dynamic Manipulation of Electrochemical Processes at the Electrode-Solution Interface.	1
181	Moringa Oleifera leaf extract mediated synthesis of reduced graphene oxide-vanadium pentoxide nanocomposite for enhanced specific capacitance in supercapacitors. <b>2022</b> , 142, 109648	1
180	From dual-aerogels with semi-interpenetrating polymer network structure to hierarchical porous carbons for advanced supercapacitor electrodes. <b>2022</b> , 649, 129356	0
179	Catalytic and pseudocapacitive energy storage performance of metal (Co, Ni, Cu and Mn) ferrite nanostructures and nanocomposites. <b>2022</b> , 130, 100995	1
178	Facile Electrochemically Induced Vacancy Modulation of NiCo <sub>2</sub> O <sub>4</sub> Cathode Toward High-Performance Aqueous Zn-Based Battery.	
177	Hierarchical mesoporous selenium@bimetallic selenides quadrilateral nanosheets array for advanced flexible asymmetric supercapacitor.	2



176	Understanding the effects of electrode meso-macropore structure and solvent polarity on electric double layer capacitors based on a continuum model. <b>2022,</b>	
175	Investigation of copper/cobalt MOFs nanocomposite as an electrode material in supercapacitors.	1
174	Multimetallic transition metal phosphide nanostructures for supercapacitors and electrochemical water splitting.	0
173	A Review on Challenges to Remedies of MnO <sub>2</sub> based Transition-metal oxide, hydroxide, and layered double hydroxide Composites for Supercapacitor Applications. <b>2022,</b> 104033	6
172	A mini-review on the recent advancement of electrospun MOF-derived nanofibers for energy storage. <b>2022,</b> 11, 100355	0
171	N-doped hollow carbon nanoplates with mesoporous thin shells towards high-performance supercapacitors. <b>2022,</b> 542, 231776	3
170	Two-step hydrothermal synthesis of a fireworks-like amorphous Co <sub>3</sub> S <sub>4</sub> for asymmetric supercapacitors with superior cycling stability. <b>2022,</b> 426, 140777	
169	Sequential transformation of copper to porous copper (I) sulfide as superior electrode for supercapacitor. <b>2022,</b> 920, 116587	0
168	One-step self-embedding of CoP nanoparticles in N, P-codoped hard carbon for high-performance lithium ion capacitors. <b>2022,</b> 543, 231831	0
167	Application of NiCoP/NiCo <sub>2</sub> N designed by heterogeneous interface engineering in low-temperature flexible supercapacitors. <b>2022,</b> 54, 105302	0
166	Integrated energy conversion and storage devices: Interfacing solar cells, batteries and supercapacitors. <b>2022,</b> 51, 400-434	6
165	Gel network amplifies Nano-Scale adsorption at Solid/Liquid interface to Sub-Millimeter-Scale. <b>2022,</b> 626, 276-282	1
164	Fabrication of High-performance Supercapacitors Using Hierarchical MnO <sub>2</sub> Nanostructures on a Frosted Glass Surface.	
163	Core-shell structured WS <sub>2</sub> @Ni-Co-S composite and activated carbon derived from rose flowers as high-efficiency hybrid supercapacitor electrodes. <b>2022,</b> 54, 105234	2
162	The second life of coffee can be even more energizing: Circularity of materials for bio-based electrochemical energy storage devices.	
161	Sodium Pre-Intercalation-Based Na <sub>3</sub> -MnO <sub>2</sub> @CC for High-Performance Aqueous Asymmetric Supercapacitor: Joint Experimental and DFT Study. <b>2022,</b> 12, 2856	1
160	The strong correlations between the performance of a KB supercapacitor and the properties of NaClO <sub>4</sub> and LiFSI electrolytes over wide concentration ranges.	1
159	Understanding Synthesis-Structure-Performance Correlations of Nanoarchitected Activated Carbons for Electrochemical Applications and Carbon Capture. 2204714	4

158	Metallic 1T'-MoTe <sub>2</sub> Nanoparticle-Incorporated Graphene for Enhanced High Current Hydrogen Evolution and Supercapacitor Performance.	
157	Nanoconfined Space: Revisiting the Charge Storage Mechanism of Electric Double Layer Capacitors. <b>2022</b> , 14, 37259-37269	2
156	Structurally integrated 3D carbon tube gridBased high-performance filter capacitor. <b>2022</b> , 377, 1004-1007	5
155	National Policies, Recent Research Hotspots, and Application of Sustainable Energy: Case of China, USA, and European Countries. <b>2022</b> , 14, 10014	0
154	Unraveling the Capacitive Charge Storage Mechanism of Nitrogen-Doped Porous Carbons by EQCM and ssNMR. <b>2022</b> , 144, 14217-14225	0
153	Low-cost carbon derived from coal-coke for high-performance supercapacitors. <b>2022</b> , 921, 116678	
152	Silica-assisted strategy towards hierarchically porous carbon nanofibers for supercapacitor. <b>2022</b> , 545, 231922	0
151	Tuning interfacial ion distribution to improve energy density of supercapacitors. <b>2022</b> , 102, 107660	0
150	Modulation of hierarchical porosity in metal-doping graphene/carbon hybrid aerogels for capacitive energy storage. <b>2022</b> , 55, 105445	0
149	Poly(azure C)-coated CoFe Prussian blue analogue nanocubes for high-energy asymmetric supercapacitors. <b>2022</b> , 628, 682-690	0
148	Enhancing electrochemical performance of ultrasmall Fe <sub>2</sub> O <sub>3</sub> -embedded carbon nanotubes via combusting-induced high-valence dopants. <b>2023</b> , 134, 142-150	1
147	Analysis of impedance: The distribution of capacitance in halide ion treated supercapacitors. <b>2022</b> , 922, 116754	0
146	A critical review on polyimide derived carbon materials for high-performance supercapacitor electrodes. <b>2022</b> , 55, 105667	1
145	A conjugately configured supercapacitor based on pairs of pre-lithiated Nb <sub>2</sub> O <sub>5</sub> /TiO <sub>2</sub> with optimized retained energy upon aging enabled by suppressed self-discharge. <b>2022</b> , 549, 232141	0
144	Pyrolysis of zinc salt-treated flax fiber: Hierarchically porous carbon electrode for supercapacitor. <b>2022</b> , 129, 109339	3
143	High-performance hybrid supercapacitor enabled by advantageous heterojunction boosted starfish-like ZnCo-S electrode. <b>2022</b> , 928, 166997	0
142	The surface functional modification of Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene by phosphorus doping and its application in quasi-solid state flexible supercapacitor. <b>2022</b> , 606, 154817	0
141	One-pot two-step synthesis of micro- and mesoporous organic fibrils for efficient pseudocapacitors. <b>2022</b> , 10, 17511-17519	1

- 140 High-Performance Aqueous Symmetric Supercapacitor Based on Ni<sub>6</sub>MnO<sub>8</sub>-MnCO<sub>3</sub> Composites Self-Supported Electrode. 0
- 139 Ion accumulation-induced capacitance elevation in a microporous graphene-based supercapacitor. **2022**, 12, 27082-27093 1
- 138 Challenges and prospects of high-voltage aqueous electrolytes for energy storage applications. **2022**, 24, 20674-20688 1
- 137 Facile preparation of 3D porous agar-based heteroatom-doped carbon aerogels for high-energy density supercapacitors. **2022**, 12, 20975-20982 0
- 136 Metal-organic frameworks and their derivatives for metal-ion (Li, Na, K and Zn) hybrid capacitors. 1
- 135 Fabrication of multi-purposed supercapacitors based on N-doped porous carbon framework. **2022**, 4, 100479 0
- 134 3D graphene-like oxygen and sulfur-doped porous carbon nanosheets with multilevel ion channels for high-performance aqueous Zn-ion storage. **2023**, 201, 624-632 0
- 133 Flash Nitrogen-Doped Graphene for High-Rate Supercapacitors. **2022**, 4, 1863-1871 1
- 132 Hierarchical grass-like NiCo<sub>2</sub>O<sub>4</sub> nanowires grown on nickel foam as a binder-free supercapacitor electrode. **2022**, 0
- 131 High Performance and Long-cycle Life Rechargeable Aluminum Ion Battery: Recent Progress, Perspectives and Challenges. 0
- 130 Poly(1-Naphthylamine) Nanoparticles as Potential Scaffold for Supercapacitor and Photocatalytic Applications. **2022**, 13, 1528 0
- 129 Ultrahigh electrochemical performance in mixed-valence Cu<sub>1.85</sub>Se-Based anode for supercapacitors. **2022**, 0
- 128 Caesium acetate based electrolytes for aqueous electrical double layer capacitors. 0
- 127 Supercapacitors: Fabrication Challenges and Trends. 0
- 126 Molecular-Level Insights into Interfacial Interaction-Nanostructure Relationships of Imidazolium-Based Ionic Liquids around Carbon Nanotube Electrodes. **2022**, 61, 14051-14065 0
- 125 Balanced Crystallinity and Nanostructure for SnS<sub>2</sub> Nanosheets through Optimized Calcination Temperature toward Enhanced Pseudocapacitive Na<sup>+</sup> Storage. **2022**, 16, 14745-14753 1
- 124 Designing Hollow Carbon Sphere with Hierarchical Porous for Na-S Systems with Ultra-Long Cycling Stabilities. **2022**, 27, 5880 0
- 123 Hierarchical NiFe<sub>2</sub>O<sub>4</sub>-NiAl-LDH arrays immobilized on activated carbon cloth for bifunctional application on high-performance supercapacitors and solar steam generation. **2022**, 33, e00500 1

- 122 Simulation Study of Electric Double-Layer Capacitance of Ordered Carbon Electrodes. 0
- 121 Unconventional interfacial water structure of highly concentrated aqueous electrolytes at negative electrode polarizations. **2022**, 13, 2
- 120 Sodium-Intercalated Manganese Oxides for Achieving Ultra-Stable and Fast Charge Storage Kinetics in Wide-Voltage Aqueous Supercapacitors. 2206539 0
- 119 Facile Synthesis of Biocarbon-Based MoS<sub>2</sub> Composite for High-Performance Supercapacitor Application. 1
- 118 Redox-active conjugated microporous anthraquinonylamine-based polymer network grafted with activated graphene toward high-performance flexible asymmetric supercapacitor electrodes. **2022**, 141315 0
- 117 MXene-MnO<sub>2</sub>-CoNi layered double hydroxides//activated carbon flexible asymmetric supercapacitor. **2022**, 55, 105668 1
- 116 Constructing monodisperse blueberry-like lignin-based porous carbon nanospheres for high-performance supercapacitors. **2022**, 655, 130237 0
- 115 Applications of all-inorganic perovskites for energy storage. 0
- 114 Nitrogen-doped carbons derived from cotton pulp for improved supercapacitors. **2022**, 12, 29246-29252 0
- 113 Triggering highly conductive FePSe<sub>3</sub> with Cu-based coordination towards all-climate ultrafast sodium ion storage. **2022**, 10, 22645-22661 0
- 112 The Mechanical Properties of Batteries and Supercapacitors. **2022**, 0
- 111 Capacitive energy storage from single pore to porous electrode identified by frequency response analysis. **2022**, 0
- 110 Aqueous Supercapacitors with Low Cost and High Voltage Enabled by Co-solute Crowding Effect of Electrolyte. 0
- 109 Graphene Quantum Dots: Novel Properties and Their Applications for Energy Storage Devices. **2022**, 12, 3814 2
- 108 Capturing Solar Energy for Cathodic Protection of Metals: The Life of Photoexcited Charge Carriers. 2200134 1
- 107 MXenes: An exotic material for hybrid supercapacitors and rechargeable batteries. **2022**, 56, 105914 0
- 106 Interface-engineered molybdenum disulfide/porous graphene microfiber for high electrochemical energy storage. **2023**, 54, 30-39 0
- 105 Effect of electronic structure modulation and layer spacing change of NiAl layered double hydroxide nanoflowers caused by cobalt doping on supercapacitor performance. **2023**, 630, 973-983 0

104	Facile electrochemically induced vacancy modulation of NiCo <sub>2</sub> O <sub>4</sub> cathode toward high-performance aqueous Zn-based battery. <b>2023</b> , 453, 139736	0
103	pH-controlled Assembling of POM-Based Metal-Organic Frameworks for Use as Supercapacitors and Efficient Oxidation Catalysts for Various Sulfides.	1
102	Crystalline flower-like nickel cobaltite nanosheets coated with amorphous titanium nitride layer as binder-free electrodes for supercapacitor application. <b>2023</b> , 437, 141526	1
101	Deep-implanting oxygen vacancy into VO <sub>x</sub> by alkylamine intercalation for life-oriented modular pouch supercapacitors. <b>2023</b> , 453, 139948	0
100	Role of Carbon Nanotube for Flexible Supercapacitor Application.	0
99	Molecular Insights Into the Physics of Poly(amidoamine)-Dendrimer-Based Supercapacitors. <b>2022</b> , 18,	0
98	Effective Modulation of Ion Mobility through Solid-State Single-Digit Nanopores. <b>2022</b> , 12, 3946	0
97	Modulating Water Cluster Formation by the Hydrophilicity of Mixed Ionic Liquids. <b>2022</b> , 120766	0
96	Predictive Molecular Models for Charged Materials Systems: From Energy Materials to Biomacromolecules. 2204272	0
95	Exploring the synergy of binder free MoWS <sub>2</sub> @Ag as electrode materials for hybrid supercapacitors. <b>2022</b> , 56, 105925	2
94	A novel composite based on NiCo <sub>2</sub> O <sub>4</sub> @NG/MnOOH nanorods for high-performance supercapacitor electrodes. <b>2022</b> , 56, 105949	0
93	Highly flexible Zn-ion hybrid supercapacitors based on carbon fibers covalently combined with polypyrrole.	0
92	Pore-tailoring of pruned fruit tree branch derived activated carbon with hierarchical micropore structure for non-aqueous supercapacitors. <b>2022</b> , 56, 106098	1
91	Surface-controlled sodium-ion storage mechanism of Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> anode. <b>2023</b> , 54, 724-731	1
90	Green preparation of CoMoO <sub>4</sub> nanoparticles through a mechanochemical method for energy storage applications.	0
89	High Power- and Energy-density Supercapacitors through the Chlorine Respiration Mechanism.	0
88	High Power- and Energy-density Supercapacitors through the Chlorine Respiration Mechanism.	0
87	Ternary nanocomposite of GQDs-polyFc/Fe <sub>3</sub> O <sub>4</sub> /PANI: Design, synthesis, and applied for electrochemical energy storage. <b>2023</b> , 439, 141706	0

- 86 Understanding the charging of supercapacitors by electrochemical quartz crystal microbalance. 0
- 85 Efficient conversion of biomass waste to N/O co-doped hierarchical porous carbon for high performance supercapacitors. **2023**, 169, 105844 0
- 84 Lignin-derived electrode materials for supercapacitor applications: progress and perspectives. 1
- 83 Challenges and prospects of in situ nuclear magnetic resonance for electrochemistry devices. **2023**, 31, 101210 0
- 82 3D carbon nanotube-mesoporous carbon sponge with short pore channels for high-power lithium-ion capacitor cathodes. **2023**, 203, 479-489 0
- 81 Spray-Drying Synthesis and Vanadium-Catalyzed Graphitization of a Nanocrystalline  $\text{Li}_3.2\text{V}_0.8\text{Si}_0.2\text{O}_4/\text{C}$  Anode Material with a Unique Double Capsule Structure. 0
- 80 Structural design on microporous cellulose-derived carbon via freeze-drying and carbonization for enhancing energy storage performances. **2023**, 192, 116097 1
- 79 Materials design and preparation for high energy density and high power density electrochemical supercapacitors. **2023**, 152, 100713 0
- 78 Polyacrylonitrile-b-Polystyrene Block Copolymer-Derived Hierarchical Porous Carbon Materials for Supercapacitor. **2022**, 14, 5109 0
- 77 Density functional theory study of the enhancement of quantum capacitance of graphene by phosphorous doping. 0
- 76 *Phyllanthus emblica* Seed-Derived Hierarchically Porous Carbon Materials for High-Performance Supercapacitor Applications. **2022**, 15, 8335 2
- 75 Kinetic and Thermodynamic Insights into Advanced Energy Storage Mechanisms of Battery-Type Bimetallic Metal-Organic Frameworks. **2022**, 34, 10338-10346 0
- 74 Self-Supported Graphene Nanosheet-Based Composites as Binder-Free Electrodes for Advanced Electrochemical Energy Conversion and Storage. **2022**, 5, 1 1
- 73 Importance of Anion-Anion Pairing for Capacitance of Carbon/Ionic Liquid Interfaces. **2022**, 126, 20213-20225 0
- 72 Operando AC In-Plane Impedance Spectroscopy of Electrodes for Energy Storage Systems. **2022**, 169, 120510 0
- 71 Double-Carbon Matrix-Supported  $\text{MnO}_2$  for High-Voltage Supercapacitors in a Neutral Aqueous System. **2022**, 5, 15874-15880 1
- 70 Constructing ultraporous activated hollow carbon nanospheres derived from rotten grapes for boosting energy density and lifespan supercapacitors. **2022**, 130821 0
- 69 Mechanism Study of Advanced Lightning Strike Protection Composite Systems Using a Miniature Tip Discharge System. **2022**, 107394 0

- 68 Nanometric MnO<sub>2</sub> and MnO<sub>2</sub>-Graphene Oxide Materials Enabled by a Solvent-Assisted Synthesis and Their Application in Asymmetric Supercapacitors. 2201243 ○
- 67 Engineering sphere-like porous FeF<sub>3</sub>@C cathode with rational interfacial designing towards high-power batteries. ○
- 66 Electrochemical Performance and Hydrogen Storage of NiPdBB Glassy Alloy. **2022**, 12, 4310 ○
- 65 High gravimetric capacitance MXene supercapacitor electrode based on etched Ti<sub>3</sub>C<sub>2</sub>T<sub>x</sub> by chemical etching. ○
- 64 Nanomaterials for Catalysis and Energy Storage. **2023**, 13, 360 ○
- 63 Role of biochar toward carbon neutrality. **2023**, 2, ○
- 62 Layered Metal Oxide Nanosheets with Enhanced Interlayer Space for Electrochemical Deionization. 2210871 ○
- 61 Strengths, Weaknesses, Opportunities, and Threats (SWOT) analysis of Supercapacitors: A Review. **2023**, ○
- 60 MOFs-derived advanced heterostructure electrodes for energy storage. **2023**, 214985 1
- 59 High-Ionic-Conductivity Sodium-Based Ionic Gel Polymer Electrolyte for High-Performance and Ultrastable Microsupercapacitors. **2023**, 15, 3054-3068 ○
- 58 Synthesis, crystal structure, optical, thermoelectric, and electrochemical studies of Ba<sub>2</sub>Cu<sub>2.1(1)</sub>Ag<sub>1.9(1)</sub>Se<sub>5</sub>. **2023**, 107115 ○
- 57 Elucidating binder-free magnetron sputtered molybdenum-tungsten-disulfide thin films for battery-supercapacitor devices. **2023**, 168929 ○
- 56 High-performance aqueous symmetric supercapacitor based on Ni<sub>6</sub>MnO<sub>8</sub>-MnCO<sub>3</sub> composites self-supported electrode. ○
- 55 Photo-assisted rechargeable supercapacitors based on nickel-cobalt-deposited tungsten-doped titania photoelectrodes: A novel self-powered supercapacitor. **2023**, 557, 232588 ○
- 54 Enhancement of supercapacitive performance of carboxymethyl cellulose-derived porous carbon monoliths by the addition of carbon nanotubes. **2023**, 268, 118415 ○
- 53 A universal charge-compensating strategy for high-energy-density pseudocapacitors. **2023**, 78, 333-339 ○
- 52 Tuning pyridinic-N and graphitic-N doping with 4,4'-bipyridine in honeycomb-like porous carbon and distinct electrochemical roles in aqueous and ionic liquid gel electrolytes for symmetric supercapacitors. **2023**, 635, 254-264 ○
- 51 Nanostructural Organization in a Biredox Ionic Liquid. **2023**, 14, 101-106 ○

- 50 Rational Design of Electrode Materials for Advanced Supercapacitors: From Lab Research to Commercialization. 2213095 ○
- 49 Self-Healing, Flexible and Smart 3D Hydrogel Electrolytes Based on Alginate/PEDOT:PSS for Supercapacitor Applications. **2023**, 15, 571 1
- 48 Selective Dual-Ion Modulation in Solid-State Magnetoelectric Heterojunctions for In-Memory Encryption. 2206824 ○
- 47 Polymer-Containing Batteries \*. **2023**, 17-68 ○
- 46 Two-step synthesis of a-NiCu(OH)2CO3/Na3NiCuCO3PO4: a battery-type electrode for pseudocapacitor applications. ○
- 45 Engineering semicoherent interface with O-Fe-Se coordination for boosting the capacity and rate capability of a battery-type supercapacitor anode. ○
- 44 Recipe for Fabricating Optimized Solid-State Electrochromic Devices and Its Know-How: Challenges and Future. ○
- 43 Synergistic effect of intercalation and EDLC electrosorption of 2D/3D interconnected architectures to boost capacitive deionization for water desalination via MoSe2/mesoporous carbon hollow spheres. **2023**, 235, 119831 ○
- 42 Pore engineering: Structure-capacitance correlations for biomass-derived porous carbon materials. **2023**, 229, 111904 ○
- 41 In situ hydrolysis strategy to synthesis ultrathin CoNi-LDH nanoflowers for High-performance supercapacitors. **2023**, 936, 117379 ○
- 40 Ion transport phenomena in electrode materials. **2023**, 4, 021302 ○
- 39 The critical role of nanostructured carbon pores in supercapacitors. **2023**, 39, 101249 ○
- 38 Two-dimensional transition metal carbide (Ti0.5V0.5)3C2Tx MXene as high performance electrode for flexible supercapacitor. **2023**, 639, 233-240 ○
- 37 Interface engineering of a hollow core-shell sulfur-doped Co2P@Ni2P heterojunction for efficient charge storage of hybrid supercapacitors. **2023**, 947, 169591 ○
- 36 Recent advances in two-dimensional metal-organic frameworks as an exotic candidate for the evaluation of redox-active sites in energy storage devices. **2023**, 64, 107142 ○
- 35 Sustainable biochar for advanced electrochemical/energy storage applications. **2023**, 63, 107115 ○
- 34 Facile synthesis of dense porous carbon derived from Linum usitatissimum L. root for high mass loading supercapacitors. **2023**, 63, 107039 ○
- 33 Comparative study on the structural and electrochemical properties of nitrogen-doped and nitrogen and sulfur co-doped reduced graphene oxide electrode prepared by hydrothermal technique. **2023**, 208, 110887 ○



- 32 High performing supercapacitors using Cr<sub>2</sub>O<sub>3</sub> nanostructures with stable channels- theoretical and experimental insights. **2023**, 293, 116438 ○
- 31 Nitrogen implanted carbon nanosheets derived from Acorus calamus as an efficient electrode for the supercapacitor application. **2023**, 538, 112978 ○
- 30 Molecular understanding of the Helmholtz capacitance difference between Cu(100) and graphene electrodes. **2023**, 158, 084701 ○
- 29 MnCo<sub>2</sub>O<sub>4</sub>@Co(OH)<sub>2</sub>-g-C<sub>3</sub>N<sub>4</sub> preparation of composite materials and their performance in supercapacitors. **2023**, 34, ○
- 28 Combination of multiple active sites in N, O co-doped defective carbon materials for high performance aqueous supercapacitors. ○
- 27 Polypyrrole embedded in nickel-cobalt sulfide nanosheets grown on nickel particles passivated silicon nanowire arrays for high-performance supercapacitors. **2023**, 461, 141745 ○
- 26 A Review on Thermal Behaviors and Thermal Management Systems for Supercapacitors. **2023**, 9, 128 ○
- 25 Coupled Interactions at the Ionic Graphene-Water Interface. **2023**, 130, ○
- 24 Amorphous K-Buserite Microspheres for High-Performance Aqueous Zn-Ion Batteries and Hybrid Supercapacitors. 2207329 ○
- 23 Transition metal chalcogenides for next-generation energy storage. ○
- 22 High Mass-Loading Biomass-Based Porous Carbon Electrodes for Supercapacitors: Review and Perspectives. 2300336 ○
- 21 Electrocapacitive Deionization: Mechanisms, Electrodes, and Cell Designs. 2213578 ○
- 20 Frequency-Dependent Impedance of Nanocapacitors from Electrode Charge Fluctuations as a Probe of Electrolyte Dynamics. **2023**, 130, ○
- 19 Nanoporous Hollow Carbon Spheres Derived from Fullerene Assembly as Electrode Materials for High-Performance Supercapacitors. **2023**, 13, 946 ○
- 18 Reduced graphene oxide/ionic liquid composites with tunable interlayer spacing for improved charge/discharge kinetics in supercapacitors. **2023**, 34, 235402 ○
- 17 Unlocking the full energy densities of carbon-based supercapacitors. **2023**, 11, 517-546 ○
- 16 Insight into Electrochemical Performance of Nitrogen-Doped Carbon/NiCo-Alloy Active Nanocomposites. 2300054 ○
- 15 High-performance anodes for aqueous Zn/iodine batteries from spent Zn/air batteries. **2023**, 4, 1623-1627 ○

- 14 Largely Pseudocapacitive Two-Dimensional Conjugated Metal-Organic Framework Anodes with Lowest Unoccupied Molecular Orbital Localized in Nickel-bis(dithiolene) Linkages. **2023**, 145, 6247-6256 ○
- 13 Nanostructured Conducting Polymers and Their Applications in Energy Storage Devices. **2023**, 15, 1450 1
- 12 Biomimetic Construction of Ferrite Quantum Dot/Graphene Heterostructure for Enhancing Ion/Charge Transfer in Supercapacitors. ○
- 11 Freestanding biomass-derived and self-doped carbon electrodes with high loading for high-performance supercapacitors. ○
- 10 Engineering Multifunctionality in MoSe<sub>2</sub> Nanostructures Via Strategic Mn Doping for Electrochemical Energy Storage and Photosensing. **2023**, 6, 5479-5492 ○
- 9 Engineering of Self-Aggregation-Resistant MnO<sub>2</sub> Heterostructure with A Built-in Field for Enhanced High-Mass-Loading Energy Storage. ○
- 8 In situ monitoring redox processes in energy storage using UV-Vis spectroscopy. ○
- 7 Electrochemical insights into the energy storage mechanism of birnessite in aqueous solutions. **2023**, 454, 142418 ○
- 6 Designed Production of Atomic-Scale Nanowindows in Single-Walled Carbon Nanotubes. ○
- 5 Recent Advances, Properties, Fabrication and Opportunities in Two-Dimensional Materials for their Potential Sustainable Applications. **2023**, 102780 ○
- 4 ZIF-67 derived rGO/NiCo<sub>2</sub>S<sub>4</sub> electrode materials prepared by hydrothermal method for asymmetric supercapacitors. **2023**, 109946 ○
- 3 Transition-Metal-Substituted Nanoporous Manganese Ferrites Mn<sub>0.95</sub>M<sub>0.05</sub>Fe<sub>2</sub>O<sub>4</sub> (M: Co, Cu, and Zn) as Electrode Materials for High-Performance Supercapacitors in Redox-Active Nonaqueous Electrolytes. ○
- 2 Porous Hollow Biomass-Based Carbon Nanostructures for High-Performance Supercapacitors. **2023**, 271-300 ○
- 1 Biomass-derived carbon for supercapacitors electrodes – A review of recent advances. **2023**, 153, 110768 ○