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Synthesis of nitrogen-doped porous carbon nanofibers as an efficient electrode material for supercapacitors

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1500	Efficient Access of Voltammetric Charge in Hybrid Supercapacitor Configured with Potassium Incorporated Nanographitic Structure Derived from Cotton (<i>Gossypium arboreum</i>) as Negative and Ni(OH) ₂ /rGO Composite as Positive Electrode.		
1499	CO ₂ Derived Synthesis of Hierarchical Porous Carbon Cathode and Free-Standing NRich Carbon Interlayer Applied for LithiumSulfur Batteries.		
1498	Built Structure of Ordered Vertically Aligned Codoped Carbon Nanowire Arrays for Supercapacitors.		
1497	NDoped Porous Carbon Nanofibers/Porous Silver Network Hybrid for High-Rate Supercapacitor Electrode.		
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1494	Promising Nitrogen-Rich Porous Carbons Derived from One-Step Calcium Chloride Activation of Biomass-Based Waste for High Performance Supercapacitors.		
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1492	Surfactant-Free Assembly of Mesoporous Carbon Hollow Spheres with Large Tunable Pore Sizes.		
1491	Two-Dimensional Polymer Synthesized via Solid-State Polymerization for High-Performance Supercapacitors.		
1490	Use of Nutrient Rich Hydrophytes to Create N,P-Dually Doped Porous Carbon with Robust Energy Storage Performance.		
1489	Multifunctional nitrogen-rich Brick-and-mortarCarbon as high performance supercapacitor electrodes and oxygen reduction electrocatalysts. 2013 , 1, 11061		32
1488	Free-standing nitrogen-doped carbon nanofiber films as highly efficient electrocatalysts for oxygen reduction. <i>Nanoscale</i> , 2013 , 5, 9528-31	7.7	104
1487	Synthesis, characterization and electrochemical performance of graphene decorated with 1D NiMoO ₄ · nH ₂ O nanorods. <i>Nanoscale</i> , 2013 , 5, 10428-37	7.7	196
1486	N-doped graphene natively grown on hierarchical ordered porous carbon for enhanced oxygen reduction. 2013 , 25, 6226-31		358
1485	The production of activated carbon from cation exchange resin for high-performance supercapacitor. 2013 , 17, 1749-1758		17
1484	Excellent electrochemical performance of nitrogen-enriched hierarchical porous carbon electrodes prepared using nano-CaCO ₃ as template. 2013 , 17, 2651-2660		34

1483	Role of fluorination in improvement of the electrochemical properties of activated carbon nanofiber electrodes. 2013 , 150, 98-103		19
1482	Mesoporous NiO nanoarchitectures for electrochemical energy storage: influence of size, porosity, and morphology. <i>RSC Advances</i> , 2013 , 3, 23801	3-7	97
1481	Mesoporous N-containing carbon nanosheets towards high-performance electrochemical capacitors. 2013 , 64, 141-149		76
1480	Graphene@poly(m-phenylenediamine) hydrogel fabricated by a facile post-synthesis assembly strategy. 2013 , 49, 9974-6		40
1479	Facile Preparation of Porous Carbon Nanosheets without Template and Their Excellent Electrocatalytic Property. 2013 , 5, 11597-602		36
1478	Large-scale synthesis and enhanced hydrogen storage of monodispersed sulfur-doped carbon microspheres by hydro-sulfur-thermal carbonization of starch. 2013 , 109, 279-282		19
1477	Towards ultrahigh volumetric capacitance: graphene derived highly dense but porous carbons for supercapacitors. <i>Scientific Reports</i> , 2013 , 3, 2975	4-9	467
1476	Interconnected porous and nitrogen-doped carbon network for supercapacitors with high rate capability and energy density. <i>Electrochimica Acta</i> , 2013 , 114, 165-172	6-7	33
1475	Polyaniline nanowire arrays aligned on nitrogen-doped carbon fabric for high-performance flexible supercapacitors. 2013 , 29, 12051-8		99
1474	Tubular graphitic-C3N4: a prospective material for energy storage and green photocatalysis. 2013 , 1, 13949		211
1473	Water dispersible, highly graphitic and nitrogen-doped carbon nanobubbles. 2013 , 9, 4135-41		32
1472	Flexible all-solid-state high-power supercapacitor fabricated with nitrogen-doped carbon nanofiber electrode material derived from bacterial cellulose. 2013 , 6, 3331		450
1471	High-performance supercapacitor electrodes based on graphene achieved by thermal treatment with the aid of nitric acid. 2013 , 5, 9656-62		78
1470	Hollow, spherical nitrogen-rich porous carbon shells obtained from a porous organic framework for the supercapacitor. 2013 , 5, 10280-7		180
1469	A general conversion of polyacrylate-metal complexes into porous carbons especially evinced in the case of magnesium polyacrylate. 2013 , 1, 4017		21
1468	Moderating black powder chemistry for the synthesis of doped and highly porous graphene nanoplatelets and their use in electrocatalysis. 2013 , 25, 6284-90		209
1467	In situ polydopamine coating-directed synthesis of nitrogen-doped ordered nanoporous carbons with superior performance in supercapacitors. 2013 , 1, 15207		67
1466	Seaweed-like porous carbon from the decomposition of polypyrrole nanowires for application in lithium ion batteries. 2013 , 1, 5037		61

1465	An electron-rich free-standing carbon@Au core-shell nanofiber network as a highly active and recyclable catalyst for the reduction of 4-nitrophenol. 2013 , 15, 10453-8		65
1464	VGCF-core@LiMn _{0.4} Fe _{0.6} PO ₄ -sheath heterostructure nanowire for high rate Li-ion batteries. 2013 , 15, 6638		9
1463	Nitrogen-doped porous carbon for supercapacitor with long-term electrochemical stability. 2013 , 230, 50-58		233
1462	Nitrogen-doped porous carbon nanosheets as low-cost, high-performance anode material for sodium-ion batteries. 2013 , 6, 56-60		558
1461	Nitrogen/manganese oxides doped porous carbons derived from sodium butyl naphthalene sulfonate. <i>Journal of Colloid and Interface Science</i> , 2013 , 398, 176-84	9.3	8
1460	Electrochemical evaluation of DNA methylation level based on the stoichiometric relationship between purine and pyrimidine bases. 2013 , 45, 34-9		42
1459	Two-dimensional mesoporous carbon sheet-like framework material for high-rate supercapacitors. 2013 , 60, 481-487		176
1458	Activated porous carbon nanofibers using Sn segregation for high-performance electrochemical capacitors. 2013 , 65, 87-96		84
1457	Generation of B-doped graphene nanoplatelets using a solution process and their supercapacitor applications. <i>ACS Nano</i> , 2013 , 7, 19-26	16.7	471
1456	A simple process to prepare nitrogen-modified few-layer graphene for a supercapacitor electrode. 2013 , 57, 184-190		72
1455	Synthesis of ultrathin nitrogen-doped graphitic carbon nanocages as advanced electrode materials for supercapacitor. 2013 , 5, 2241-8		282
1454	A novel polymeric precursor for micro/mesoporous nitrogen-doped carbons. 2013 , 1, 5113		54
1453	Large-Area Flexible CoreShell Graphene/Porous Carbon Woven Fabric Films for Fiber Supercapacitor Electrodes. 2013 , 23, n/a-n/a		29
1452	Biomass-derived sponge-like carbonaceous hydrogels and aerogels for supercapacitors. <i>ACS Nano</i> , 2013 , 7, 3589-97	16.7	489
1451	Synthesis of superior carbon nanofibers with large aspect ratio and tunable porosity for electrochemical energy storage. 2013 , 1, 9449		54
1450	Carbonised polyaniline and polypyrrole: towards advanced nitrogen-containing carbon materials. 2013 , 67,		96
1449	Nitrogen-doped mesoporous carbons originated from ionic liquids as electrode materials for supercapacitors. 2013 , 1, 6373		116
1448	Poly(ionic liquid)-derived nitrogen-doped hollow carbon spheres: synthesis and loading with Fe ₂ O ₃ for high-performance lithium ion batteries. <i>RSC Advances</i> , 2013 , 3, 7979	3.7	32

1447	Nitrogen-doped porous carbons by conversion of azo dyes especially in the case of tartrazine. 2013 , 242, 41-49		21
1446	High-performance supercapacitors based on hollow polyaniline nanofibers by electrospinning. 2013 , 5, 4423-8		212
1445	Microtube bundle carbon derived from Paulownia sawdust for hybrid supercapacitor electrodes. 2013 , 5, 4667-77		60
1444	Bacterial-cellulose-derived carbon nanofiber@MnO ₂ and nitrogen-doped carbon nanofiber electrode materials: an asymmetric supercapacitor with high energy and power density. 2013 , 25, 4746-52		526
1443	Chain-like NiCo ₂ O ₄ nanowires with different exposed reactive planes for high-performance supercapacitors. 2013 , 1, 8560		217
1442	Synthesis of functionalized 3D hierarchical porous carbon for high-performance supercapacitors. 2013 , 6, 2497		935
1441	Identifying the active site in nitrogen-doped graphene for the VO ₂ ⁺ /VO ₂ (⁺) redox reaction. <i>ACS Nano</i> , 2013 , 7, 4764-73	16.7	206
1440	Advanced porous carbon electrodes for electrochemical capacitors. 2013 , 1, 9395		141
1439	Supercapacitive Properties of Hydrothermally Synthesized [MnOOH Nanowires. 2013 , 634-638, 2638-2642		1
1438	Improved direct electrochemistry for proteins adsorbed on a UV/ozone-treated carbon nanofiber electrode. 2013 , 29, 611-8		13
1437	High performance nitrogen-doped carbon for supercapacitor obtained by carbonizing eco-friendly and cheap polyaspartic acid. 2014 , 132, 41-44		13
1436	Cross-linked polymers of diethynylbenzene and phenylacetylene as new polymer precursors for high-yield synthesis of high-performance nanoporous activated carbons for supercapacitors, hydrogen storage, and CO ₂ capture. 2014 , 2, 20316-20330		33
1435	Preparation of pitch-based carbon materials using a template and an orthogonal array design for super capacitors. 2014 , 9, 927-931		
1434	Rational design of Ni nanoparticles on N-rich ultrathin carbon nanosheets for high-performance supercapacitor materials: embedded- versus anchored-type dispersion. 2014 , 20, 5046-53		35
1433	Nitrogen-doped porous graphitic carbon as an excellent electrode material for advanced supercapacitors. 2014 , 20, 564-74		333
1432	Synthesis and characterization of platinum modified TiO ₂ -embedded carbon nanofibers for solar hydrogen generation. <i>RSC Advances</i> , 2014 , 4, 51286-51293	3-7	28
1431	General scalable strategy toward heterogeneously doped hierarchical porous graphitic carbon bubbles for lithium-ion battery anodes. 2014 , 6, 21661-8		42
1430	Sustainable synthesis of Penicillium-derived highly conductive carbon film as superior binder-free electrode of lithium ion batteries. 2014 , 18, 3209-3214		10

1429	Lowest π - π^* electronic transitions in linear and two-dimensional polycyclic aromatic hydrocarbons: enhanced electron density edge effect. 2014 , 112, 1063-1070		2
1428	Chlorine effect on formation of turbostratic carbon nanofibers by a mixture of 1,2-dichloroethane and ethanol. 2014 , 45, 1883-1891		8
1427	Carbonfasern: Prursor-Systeme, Verarbeitung, Struktur und Eigenschaften. 2014 , 126, 5364-5403		25
1426	Carbon fibers: precursor systems, processing, structure, and properties. 2014 , 53, 5262-98		525
1425	Heterostructured Ni(OH) ₂ /Co(OH) ₂ composites on 3D ordered Ni/Co nanoparticles fabricated on microchannel plates for advanced miniature supercapacitor. 2014 , 589, 364-371		32
1424	Nitrogen-containing nanoporous carbons by a rational template carbonization method evinced in the cases of 1, 10-phenanthroline and benzimidazole. 2014 , 18, 1879-1887		3
1423	Controllable synthesis and enhanced visible photocatalytic degradation performances of Bi ₂ WO ₆ /carbon nanofibers heteroarchitectures. 2014 , 70, 149-158		11
1422	Carbon/MnO(2) double-walled nanotube arrays with fast ion and electron transmission for high-performance supercapacitors. 2014 , 6, 2726-33		97
1421	A general approach for fabrication of nitrogen-doped graphene sheets and its application in supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2014 , 417, 270-7	9-3	74
1420	The Colloidal Stabilization of Carbon with Carbon: Carbon Nanobubbles as both Dispersant and Glue for Carbon Nanotubes. 2014 , 126, 1080-1084		6
1419	Mesoporous carbon nanofibers with large cage-like pores activated by tin dioxide and their use in supercapacitor and catalyst support. 2014 , 70, 295-307		101
1418	Recent Advances in Design and Fabrication of Electrochemical Supercapacitors with High Energy Densities. 2014 , 4, 1300816		1364
1417	Electrospun Nanofibers for Energy and Environmental Applications. 2014 ,		52
1416	High-performance supercapacitor electrodes based on porous flexible carbon nanofiber paper treated by surface chemical etching. <i>Chemical Engineering Journal</i> , 2014 , 249, 216-225	14-7	100
1415	Interconnected Frameworks with a Sandwiched Porous Carbon Layer/Graphene Hybrids for Supercapacitors with High Gravimetric and Volumetric Performances. 2014 , 4, 1400500		206
1414	Nitrogen Enriched Porous Carbon Spheres: Attractive Materials for Supercapacitor Electrodes and CO ₂ Adsorption. 2014 , 26, 2820-2828		480
1413	Powder, paper and foam of few-layer graphene prepared in high yield by electrochemical intercalation exfoliation of expanded graphite. 2014 , 10, 1421-9		105
1412	A mechanically and electrically self-healing supercapacitor. 2014 , 26, 3638-43		304

1411	The colloidal stabilization of carbon with carbon: carbon nanobubbles as both dispersant and glue for carbon nanotubes. 2014 , 53, 1062-6		19
1410	Memristor-integrated voltage-stabilizing supercapacitor system. 2014 , 26, 4999-5004		25
1409	Porous nitrogen-doped hollow carbon spheres derived from polyaniline for high performance supercapacitors. 2014 , 2, 5352-5357		369
1408	Always look on the "light" side of life: sustainable carbon aerogels. 2014 , 7, 670-89		128
1407	Growth of NiFe ₂ O ₄ nanoparticles on carbon cloth for high performance flexible supercapacitors. 2014 , 2, 10889		184
1406	Graphene coupled Schiff-base porous polymers: towards nitrogen-enriched porous carbon nanosheets with ultrahigh electrochemical capacity. 2014 , 26, 3081-6		207
1405	Enhanced capacitance and stability of p-toluenesulfonate doped polypyrrole/carbon composite for electrode application in electrochemical capacitors. 2014 , 246, 800-807		65
1404	Template-assisted low temperature synthesis of functionalized graphene for ultrahigh volumetric performance supercapacitors. <i>ACS Nano</i> , 2014 , 8, 4720-9	16.7	360
1403	Facile Synthesis and Electrochemical Properties of Co ₃ S ₄ -Nitrogen-Doped Graphene Nanocomposites for Supercapacitor Applications. <i>Electroanalysis</i> , 2014 , 26, 199-208	3	49
1402	Phosphorous and nitrogen dual heteroatom doped mesoporous carbon synthesized via microwave method for supercapacitor application. 2014 , 250, 257-265		188
1401	A sandwich-type three-dimensional layered double hydroxide nanosheet array/graphene composite: fabrication and high supercapacitor performance. 2014 , 2, 1022-1031		212
1400	On the dynamics of charging in nanoporous carbon-based supercapacitors. <i>ACS Nano</i> , 2014 , 8, 1576-83	16.7	151
1399	High-yield harvest of nanofibers/mesoporous carbon composite by pyrolysis of waste biomass and its application for high durability electrochemical energy storage. 2014 , 48, 13951-9		137
1398	Formation of carbon nanosheets via simultaneous activation and catalytic carbonization of macroporous anion-exchange resin for supercapacitors application. 2014 , 6, 20795-803		76
1397	Dyeing bacterial cellulose pellicles for energetic heteroatom doped carbon nanofiber aerogels. 2014 , 7, 1861-1872		84
1396	Formation of nitrogen-doped mesoporous graphitic carbon with the help of melamine. 2014 , 6, 20574-8		36
1395	In situ synthesis of Ni ₃ Co ₂ O ₄ composites with rod-like Ni@C as support for potential application in supercapacitors. <i>RSC Advances</i> , 2014 , 4, 32047	3.7	4
1394	CoMoO ₄ ·9H ₂ O nanorods grown on reduced graphene oxide as advanced electrochemical pseudocapacitor materials. <i>RSC Advances</i> , 2014 , 4, 34307	3.7	43

1393	Temperature-dependent structure and electrochemical performance of highly nanoporous carbon from potassium biphthalate and magnesium powder via a template carbonization process. 2014 , 2, 9675		19
1392	Freestanding 3D mesoporous graphene oxide for high performance energy storage applications. <i>RSC Advances</i> , 2014 , 4, 51640-51647	3.7	13
1391	N-doped porous hollow carbon nanofibers fabricated using electrospun polymer templates and their sodium storage properties. <i>RSC Advances</i> , 2014 , 4, 16920-16927	3.7	47
1390	Asymmetric supercapacitors based on nano-architected nickel oxide/graphene foam and hierarchical porous nitrogen-doped carbon nanotubes with ultrahigh-rate performance. 2014 , 2, 3223-3230		207
1389	Preparation and electrochemical applications of spherical maltose-based templated carbon/MnO _x composite materials. <i>Electrochimica Acta</i> , 2014 , 148, 228-236	6.7	4
1388	Unusual effects of solvent polarity on capacitance for organic electrolytes in a nanoporous electrode. <i>Nanoscale</i> , 2014 , 6, 5545-50	7.7	58
1387	Nitrogen-doped hierarchically porous carbon as efficient oxygen reduction electrocatalysts in acid electrolyte. 2014 , 2, 17047-17057		57
1386	Preparation of novel pigskin-derived carbon sheets and their low-temperature activation-induced high capacitive performance. <i>RSC Advances</i> , 2014 , 4, 45318-45324	3.7	30
1385	Hydrothermal synthesis of nitrogen-doped graphene hydrogels using amino acids with different acidities as doping agents. 2014 , 2, 8352-8361		121
1384	Functionalization of graphene with nitrogen using ethylenediaminetetraacetic acid and their electrochemical energy storage properties. <i>RSC Advances</i> , 2014 , 4, 24248	3.7	18
1383	Confining selenium in nitrogen-containing hierarchical porous carbon for high-rate rechargeable lithium-selenium batteries. 2014 , 2, 12255		78
1382	Easy approach to synthesize N/P/K co-doped porous carbon microfibers from cane molasses as a high performance supercapacitor electrode material. <i>RSC Advances</i> , 2014 , 4, 34739-34750	3.7	15
1381	Biomass-derived three-dimensional porous N-doped carbonaceous aerogel for efficient supercapacitor electrodes. <i>RSC Advances</i> , 2014 , 4, 23412	3.7	61
1380	Nitrogen-containing nanoporous carbons with high pore volumes from 4-(4-nitrophenylazo)resorcinol by a Mg(OH) ₂ -assisted template carbonization method. 2014 , 2, 17586-17594		7
1379	Nitrogen- and oxygen-containing activated carbon nanotubes with improved capacitive properties. <i>RSC Advances</i> , 2014 , 4, 5524	3.7	49
1378	Template-free synthesis of hierarchical porous carbon derived from low-cost biomass for high-performance supercapacitors. <i>RSC Advances</i> , 2014 , 4, 51072-51079	3.7	49
1377	High-performance aqueous asymmetric supercapacitor based on carbon nanofibers network and tungsten trioxide nanorod bundles electrodes. <i>Electrochimica Acta</i> , 2014 , 147, 54-61	6.7	74
1376	Understanding the effect of polypyrrole and poly(3,4-ethylenedioxythiophene) on enhancing the supercapacitor performance of NiCo ₂ O ₄ electrodes. 2014 , 2, 16731-16739		58

1375	Monodispersed N-doped carbon nanospheres for supercapacitor application. 2014 , 6, 13968-76		179
1374	Cotton-based hollow carbon fibers with high specific surface area prepared by ammonia etching for supercapacitor application. <i>RSC Advances</i> , 2014 , 4, 31300-31307	3-7	49
1373	Mass production of multi-channeled porous carbon nanofibers and their application as binder-free electrodes for high-performance supercapacitors. 2014 , 10, 4671-6		38
1372	Biomass-derived carbon materials for high-performance supercapacitor electrodes. <i>RSC Advances</i> , 2014 , 4, 30887	3-7	81
1371	Influence of current collector electrode on the capacitive performance of electrodeposited PANI: insight gained from frequency and time domain analysis. <i>RSC Advances</i> , 2014 , 4, 53740-53751	3-7	13
1370	Nitrogen-enriched hierarchically porous carbons prepared from polybenzoxazine for high-performance supercapacitors. 2014 , 6, 15583-96		155
1369	A facile method of synthesizing uniform resin colloidal and microporous carbon spheres with high nitrogen content. <i>Journal of Colloid and Interface Science</i> , 2014 , 431, 132-8	9-3	16
1368	GrapheneSingle-Walled Carbon NanotubesPoly(3-methylthiophene) Ternary Nanocomposite for Supercapacitor Electrode Materials. 2014 , 53, 13030-13045		38
1367	Hierarchical core-shell carbon nanofiber@ZnInS ₂ composites for enhanced hydrogen evolution performance. 2014 , 6, 13841-9		150
1366	Phase evolution of an alpha MnO ₂ -based electrode for pseudo-capacitors probed by in operando Raman spectroscopy. 2014 , 9, 161-167		138
1365	Facile in situ synthesis of hierarchical porous Ni/Ni(OH) ₂ hybrid sponges with excellent electrochemical energy-storage performances for supercapacitors. 2014 , 9, 2590-6		7
1364	On the origin of the high capacitance of carbon derived from seaweed with an apparently low surface area. 2014 , 2, 18998-19004		55
1363	Diaminohexane-assisted preparation of coral-like, poly(benzoxazine)-based porous carbons for electrochemical energy storage. 2014 , 6, 11101-9		19
1362	Ultrathin single-crystalline vanadium pentoxide nanoribbon constructed 3D networks for superior energy storage. 2014 , 2, 13136-13142		73
1361	Nitrogen-doped sandwich-like porous carbon nanosheets for high volumetric performance supercapacitors. <i>Electrochimica Acta</i> , 2014 , 146, 548-555	6-7	55
1360	Porous carbon synthesized by direct carbonization of potassium biphthalate for high-performance supercapacitors. 2014 , 18, 59-67		18
1359	Multifunctional g-C(3)N(4) nanofibers: a template-free fabrication and enhanced optical, electrochemical, and photocatalyst properties. 2014 , 6, 1258-65		300
1358	DNA-assisted assembly of carbon nanotubes and MnO ₂ nanospheres as electrodes for high-performance asymmetric supercapacitors. 2014 , 16, 4672-8		51

1357	All-solid-state, origami-type foldable supercapacitor chips with integrated series circuit analogues. 2014 , 7, 1095		51
1356	Nitrogen-doped carbon-wrapped porous single-crystalline CoO nanocubes for high-performance lithium storage. 2014 , 6, 10602-7		94
1355	Ternary nitrogen-doped graphene/nickel ferrite/polyaniline nanocomposites for high-performance supercapacitors. 2014 , 269, 250-259		106
1354	Well-dispersed hollow porous carbon spheres synthesized by direct pyrolysis of core-shell type metal-organic frameworks and their sorption properties. 2014 , 50, 4492-5		75
1353	Nitrogen-Doped Hierarchical Porous Carbon Nanowhisker Ensembles on Carbon Nanofiber for High-Performance Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 1525-1533	8.3	91
1352	In situ one-step synthesis of hierarchical nitrogen-doped porous carbon for high-performance supercapacitors. 2014 , 6, 7214-22		262
1351	Integrated Synthesis of Nitrogen-Doped Mesoporous Carbon from Melamine Resins with Superior Performance in Supercapacitors. 2014 , 118, 2507-2517		147
1350	Isolated boron and nitrogen sites on porous graphitic carbon synthesized from nitrogen-containing chitosan for supercapacitors. 2014 , 7, 1637-46		105
1349	Hierarchically porous carbon derived from polymers and biomass: effect of interconnected pores on energy applications. 2014 , 7, 3574-3592		1021
1348	Exceptional pseudocapacitive properties of hierarchical NiO ultrafine nanowires grown on mesoporous NiO nanosheets. 2014 , 2, 12799-12804		44
1347	In situ hydrothermal growth of ferric oxides on carbon cloth for low-cost and scalable high-energy-density supercapacitors. 2014 , 9, 345-354		113
1346	Coordination polymer submicrospheres: fast microwave synthesis and their conversion under different atmospheres. 2014 , 53, 8278-86		28
1345	Highly porous Li ₄ Ti ₅ O ₁₂ /C nanofibers for ultrafast electrochemical energy storage. 2014 , 10, 163-171		150
1344	Nitrogen-doped activated carbons derived from a co-polymer for high supercapacitor performance. 2014 , 2, 11697-11705		82
1343	Self-assembled three-dimensional hierarchical graphene/polypyrrole nanotube hybrid aerogel and its application for supercapacitors. 2014 , 6, 9671-9		199
1342	Direct synthesis of highly porous interconnected carbon nanosheets and their application as high-performance supercapacitors. <i>ACS Nano</i> , 2014 , 8, 5069-78	16.7	540
1341	Assembly of Chitin Nanofibers into Porous Biomimetic Structures via Freeze Drying.. 2014 , 3, 185-190		65
1340	Tailoring Biomass-Derived Carbon Nanoarchitectures for High-Performance Supercapacitors. 2014 , 1, 332-337		66

1339	Nitrogen-doped mesoporous carbon derived from biopolymer as electrode material for supercapacitors. <i>Journal of Electroanalytical Chemistry</i> , 2014 , 712, 146-150	4.1	49
1338	Nitrogen/phosphorus co-doped nonporous carbon nanofibers for high-performance supercapacitors. 2014 , 248, 745-751		128
1337	Three-Dimensional Heteroatom-Doped Carbon Nanofiber Networks Derived from Bacterial Cellulose for Supercapacitors. 2014 , 24, 5104-5111		459
1336	Hollow nanospheres constructed by CoS ₂ nanosheets with a nitrogen-doped-carbon coating for energy-storage and photocatalysis. 2014 , 7, 2212-20		84
1335	A renewable biopolymer cathode with multivalent metal ions for enhanced charge storage. 2014 , 2, 1974-1979	35	
1334	High performance nitrogen-doped porous graphene/carbon frameworks for supercapacitors. 2014 , 2, 8859		85
1333	One-step carbonization synthesis of hollow carbon nanococoons with multimodal pores and their enhanced electrochemical performance for supercapacitors. 2014 , 6, 2192-8		52
1332	Activated Carbon-Coated Carbon Nanotubes for Energy Storage in Supercapacitors and Capacitive Water Purification. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 1289-1298	8.3	160
1331	Simple and scalable synthesis of phosphorus and nitrogen enriched porous carbons with high volumetric capacitance. <i>Electrochimica Acta</i> , 2014 , 136, 466-472	6.7	40
1330	N- and O-doped carbonaceous nanotubes from polypyrrole for potential application in high-performance capacitance. 2014 , 247, 660-666		90
1329	Synthesis of Graphene. 2014 , 34-77		1
1328	Three-dimensional Nitrogen-Doped Graphene Supported Molybdenum Disulfide Nanoparticles as an Advanced Catalyst for Hydrogen Evolution Reaction. <i>Scientific Reports</i> , 2015 , 5, 17542	4.9	124
1327	Ionic Liquid Directed Mesoporous Carbon Nanoflakes as an Efficient Electrode material. <i>Scientific Reports</i> , 2015 , 5, 18236	4.9	20
1326	Carbon-Based Materials for Lithium-Ion Batteries, Electrochemical Capacitors, and Their Hybrid Devices. 2015 , 8, 2284-311		181
1325	Tuning Surface Wettability and Adhesivity of a Nitrogen-Doped Graphene Foam after Water Vapor Treatment for Efficient Oil Removal. 2015 , 2, 1500243		29
1324	Properties of Carbon: An Overview. 2015 , 1-30		
1323	A Discussion on the Activity Origin in Metal-Free Nitrogen-Doped Carbons For Oxygen Reduction Reaction and their Mechanisms. 2015 , 8, 2772-88		97
1322	Ultra-light Hierarchical Graphene Electrode for Binder-Free Supercapacitors and Lithium-Ion Battery Anodes. 2015 , 11, 4922-30		58

1321 Self-Healing Electronic Nanodevices. **2015**, 401-418

1320 Multifunctional Carbon Nanostructures for Advanced Energy Storage Applications. **2015**, 5, 755-777 60

1319 . **2015**, 7

1318 Natural-gel derived, N-doped, ordered and interconnected 1D nanocarbon threads as efficient supercapacitor electrode materials. *RSC Advances*, **2015**, 5, 51382-51391 3.7 11

1317 A facile and rapid preparation of highly crumpled nitrogen-doped graphene-like nanosheets for high-performance supercapacitors. **2015**, 3, 13210-13214 53

1316 Molten salt synthesis of nitrogen-doped carbon with hierarchical pore structures for use as high-performance electrodes in supercapacitors. **2015**, 93, 48-58 240

1315 Design, preparation and performance of novel three-dimensional hierarchically porous carbon for supercapacitors. *Electrochimica Acta*, **2015**, 173, 566-574 6.7 41

1314 Preparation of nitrogen-doped pitch-based carbon materials for supercapacitors. **2015**, 156, 1-6 30

1313 Interaction between nitrogen and sulfur in co-doped graphene and synergetic effect in supercapacitor. *Scientific Reports*, **2015**, 5, 9591 4.9 190

1312 High-performance lithium-selenium batteries promoted by heteroatom-doped microporous carbon. **2015**, 3, 3059-3065 80

1311 Three-dimensional honeycomb-like hierarchically structured carbon for high-performance supercapacitors derived from high-ash-content sewage sludge. **2015**, 3, 15225-15234 97

1310 Synthesis of exfoliated titanium dioxide nanosheets/nickel-aluminum layered double hydroxide as a novel electrode for supercapacitors. *RSC Advances*, **2015**, 5, 49204-49210 3.7 10

1309 Fabrication of tungsten decorated titania nanotube arrays as electrode materials for supercapacitor applications. **2015**, 40, 8769-8777 13

1308 Synthesis, Properties and Application of Graphene Woven Fabrics. **2015**,

1307 Ultrathin NiCo₂O₄ nanosheets grown on three-dimensional interwoven nitrogen-doped carbon nanotubes as binder-free electrodes for high-performance supercapacitors. **2015**, 3, 15331-15338 68

1306 Selenium in nitrogen-doped microporous carbon spheres for high-performance lithium-selenium batteries. **2015**, 3, 4539-4546 78

1305 Precursor-controlled and template-free synthesis of nitrogen-doped carbon nanoparticles for supercapacitors. *RSC Advances*, **2015**, 5, 50063-50069 3.7 24

1304 A facile approach for the synthesis of aromatic polyazomethine hollow structures employing in situ formed dynamic imine crystals as reactive templates. **2015**, 23, 1087-1090 1

1303	An evaporation-induced tri-consistent assembly route towards nitrogen-doped carbon microfibers with ordered mesopores for high performance supercapacitors. 2015 , 17, 4724-9		14
1302	White clover based nitrogen-doped porous carbon for a high energy density supercapacitor electrode. <i>RSC Advances</i> , 2015 , 5, 107707-107715	3.7	17
1301	Enhanced capacitance of nitrogen-doped hierarchically porous carbide-derived carbon in matched ionic liquids. 2015 , 3, 18906-18912		57
1300	Densely stacked bubble-pillared graphene blocks for high volumetric performance supercapacitors. 2015 , 1, 42-50		33
1299	N-doped carbon foam based three-dimensional electrode architectures and asymmetric supercapacitors. 2015 , 3, 2853-2860		66
1298	Excellent electrochemical performance of homogeneous polypyrrole/graphene composites as electrode material for supercapacitors. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 485-492	2.1	10
1297	Porous layer-stacking carbon derived from in-built template in biomass for high volumetric performance supercapacitors. 2015 , 12, 141-151		436
1296	Towards superior volumetric performance: design and preparation of novel carbon materials for energy storage. 2015 , 8, 1390-1403		304
1295	Nitrogen-enriched porous carbon nanofiber networks for binder-free supercapacitors obtained by using a reactive surfactant as a porogen. <i>Electrochimica Acta</i> , 2015 , 158, 306-313	6.7	40
1294	3D porous and ultralight carbon hybrid nanostructure fabricated from carbon foam covered by monolayer of nitrogen-doped carbon nanotubes for high performance supercapacitors. 2015 , 280, 678-686		104
1293	Activated polyaniline-based carbon nanoparticles for high performance supercapacitors. <i>Electrochimica Acta</i> , 2015 , 160, 152-159	6.7	64
1292	Template-free solvothermal synthesis of NiS ₂ microspheres on graphene sheets for high-performance supercapacitors. 2015 , 139, 81-85		58
1291	Thermal Cyclodebromination of Polybromopyrroles to Polymer with High Performance for Supercapacitor. 2015 , 119, 3881-3891		18
1290	Nitrogen-doped porous carbon spheres for highly efficient capacitive deionization. <i>Electrochimica Acta</i> , 2015 , 158, 403-409	6.7	110
1289	Hierarchically porous carbon nanosheets from waste coffee grounds for supercapacitors. 2015 , 7, 3684-90		213
1288	Ultrathin mesoporous Co ₃ O ₄ nanosheets on Ni foam for high-performance supercapacitors. <i>Electrochimica Acta</i> , 2015 , 157, 62-68	6.7	73
1287	Nitrogen-containing carbon microspheres for supercapacitor electrodes. <i>Electrochimica Acta</i> , 2015 , 158, 166-174	6.7	130
1286	Rational design of three-dimensional nitrogen-doped carbon nanoleaf networks for high-performance oxygen reduction. 2015 , 3, 5617-5627		28

1285	Sulfur-doped porous carbon nanosheets as an advanced electrode material for supercapacitors. <i>RSC Advances</i> , 2015 , 5, 13046-13051	3.7	78
1284	A simple and high-performance supercapacitor based on nitrogen-doped porous carbon in redox-mediated sodium molybdate electrolyte. <i>Electrochimica Acta</i> , 2015 , 158, 361-367	6.7	48
1283	Tailoring of porous and nitrogen-rich carbons derived from hydrochar for high-performance supercapacitor electrodes. <i>Electrochimica Acta</i> , 2015 , 155, 201-208	6.7	135
1282	Making a commercial carbon fiber cloth having comparable capacitances to carbon nanotubes and graphene in supercapacitors through a "top-down" approach. <i>Nanoscale</i> , 2015 , 7, 3285-91	7.7	49
1281	Green synthesis of MnO _x nanostructures and studies of their supercapacitor performance. 2015 , 58, 627-633		12
1280	Thermal conversion of core-shell metal-organic frameworks: a new method for selectively functionalized nanoporous hybrid carbon. 2015 , 137, 1572-80		1085
1279	Noncovalent Assembly of the Carbon Nanofibers/Au Nanocomposite and Its Application in 4-Nitrophenol Reduction. 2015 , 26, 1547-1556		6
1278	Preparation of microporous carbon nanofibers from polyimide by using polyvinyl pyrrolidone as template and their capacitive performance. 2015 , 278, 683-692		80
1277	Biomass-derived nitrogen self-doped porous carbon as effective metal-free catalysts for oxygen reduction reaction. <i>Nanoscale</i> , 2015 , 7, 6136-42	7.7	214
1276	Meso/microporous nitrogen-containing carbon nanofibers with enhanced electrochemical capacitance performances. 2015 , 203, 149-155		6
1275	One-dimensional nanostructures for flexible supercapacitors. 2015 , 3, 16382-16392		59
1274	Monolithic nitrogen-doped graphene frameworks as ultrahigh-rate anodes for lithium ion batteries. 2015 , 3, 15738-15744		25
1273	Synthesis and electrochemical properties of tube-like nitrogen-doped graphene/manganese oxide composite for supercapacitors. 2015 , 10, 282-286		2
1272	Electrochemical and electronic properties of flower-like MoS ₂ nanostructures in aqueous and ionic liquid media. <i>RSC Advances</i> , 2015 , 5, 57943-57949	3.7	23
1271	Egg-Box Structure in Cobalt Alginate: A New Approach to Multifunctional Hierarchical Mesoporous N-Doped Carbon Nanofibers for Efficient Catalysis and Energy Storage. 2015 , 1, 261-9		163
1270	Synergistic enhancement of electrochemical performance of electrospun TiC/C hybrid nanofibers for supercapacitor application. <i>Electrochimica Acta</i> , 2015 , 176, 402-409	6.7	27
1269	Nitrogen-doped porous carbon derived from biomass waste for high-performance supercapacitor. 2015 , 197, 137-42		247
1268	A dual templating route to three-dimensionally ordered mesoporous carbon nanonetworks: tuning the mesopore type for electrochemical performance optimization. 2015 , 3, 18867-18873		28

1267	Nitrogen-doped porous carbon derived from citric acid and urea with outstanding supercapacitance performance. <i>Electrochimica Acta</i> , 2015 , 178, 144-152	6.7	64
1266	The impact of morphologies and electrolyte solutions on the supercapacitive behavior for Fe ₂ O ₃ and the charge storage mechanism. <i>Electrochimica Acta</i> , 2015 , 178, 171-178	6.7	31
1265	Comparison of surface and bulk nitrogen modification in highly porous carbon for enhanced supercapacitors. 2015 , 58, 521-533		23
1264	Graphitic carbon nitride nanosheet-assisted preparation of N-enriched mesoporous carbon nanofibers with improved capacitive performance. 2015 , 94, 342-348		58
1263	Three-dimensional hierarchical nitrogen-doped arch and hollow nanocarbons: morphological influences on supercapacitor applications. 2015 , 3, 16242-16250		51
1262	Dual hetero atom containing bio-carbon: Multifunctional electrode material for High Performance Sodium-ion Batteries and Oxygen Reduction Reaction. <i>Electrochimica Acta</i> , 2015 , 176, 670-678	6.7	18
1261	Microwave-Assisted Oxidation of Electrospun Turbostratic Carbon Nanofibers for Tailoring Energy Storage Capabilities. 2015 , 27, 4574-4585		14
1260	High-Performance Supercapacitor Electrode Materials from Cellulose-Derived Carbon Nanofibers. 2015 , 7, 14946-53		144
1259	A simple synthesis of nitrogen-doped carbon micro- and nanotubes. 2015 , 51, 13546-9		22
1258	Nitrogen-doped carbon nanorods with excellent capacitive deionization ability. 2015 , 3, 17304-17311		59
1257	Impregnation assisted synthesis of 3D nitrogen-doped porous carbon with high capacitance. 2015 , 94, 650-660		54
1256	GWF/Amorphous Carbon Composites Supercapacitor. 2015 , 99-121		
1255	One-step, template-free synthesis of highly porous nitrogen/sulfur-codoped carbons from a single protic salt and their application to CO ₂ capture. 2015 , 3, 17849-17857		28
1254	Schiff-base polymer derived nitrogen-rich microporous carbon spheres synthesized by molten-salt route for high-performance supercapacitors. <i>RSC Advances</i> , 2015 , 5, 60956-60961	3.7	10
1253	Nitrogen and sulfur co-doped nanoporous carbon material derived from p-nitrobenzenamine within several minutes and the supercapacitor application. 2015 , 649, 851-858		30
1252	Nanomeses of highly crystalline nitrogen-doped carbon encapsulated Fe/Fe ₃ C electrodes as ultrafast and stable anodes for Li-ion batteries. 2015 , 3, 15008-15014		42
1251	Effects of binders on electrochemical performance of nitrogen-doped carbon nanotube anode in sodium-ion battery. <i>Electrochimica Acta</i> , 2015 , 174, 970-977	6.7	70
1250	Eco-friendly synthesis of hierarchical ginkgo-derived carbon nanoparticles/NiAl-layered double hydroxide hybrid electrodes toward high-performance supercapacitors. <i>RSC Advances</i> , 2015 , 5, 55109-55118	3.7	15

1249	Carbon nanofibers by pyrolysis of self-assembled perylene diimide derivative gels as supercapacitor electrode materials. 2015 , 3, 15513-15522		20
1248	Hydrophilic Hierarchical Nitrogen-Doped Carbon Nanocages for Ultrahigh Supercapacitive Performance. 2015 , 27, 3541-5		573
1247	Hollow melamine resin-based carbon spheres/graphene composite with excellent performance for supercapacitors. <i>Electrochimica Acta</i> , 2015 , 166, 310-319	6.7	78
1246	Carbon surface functionalities and SEI formation during Li intercalation. 2015 , 92, 193-244		80
1245	Graphene-based nitrogen self-doped hierarchical porous carbon aerogels derived from chitosan for high performance supercapacitors. 2015 , 15, 9-23		420
1244	Copper oxide nanofilm on 3D copper foam as a novel electrode material for supercapacitors. 2015 , 119, 1451-1457		4
1243	Construction of crystalline Zn-salphen microporous polymer frameworks and their nanostructured carbons through supramolecular assembly of 1D shape-persistent polymers. 2015 , 23, 309-312		10
1242	Graphene-based materials for flexible supercapacitors. 2015 , 44, 3639-65		851
1241	Preparation of highly capacitive polyaniline/black TiO ₂ nanotubes as supercapacitor electrode by hydrogenation and electrochemical deposition. <i>Electrochimica Acta</i> , 2015 , 166, 174-182	6.7	84
1240	Asymmetric supercapacitors based on carbon nanotubes@NiO ultrathin nanosheets core-shell composites and MOF-derived porous carbon polyhedrons with super-long cycle life. 2015 , 285, 281-290		249
1239	Beyond yolk-shell nanoparticles: Fe ₃ O ₄ @Fe ₃ C core@shell nanoparticles as yolks and carbon nanospindles as shells for efficient lithium ion storage. <i>ACS Nano</i> , 2015 , 9, 3369-76	16.7	192
1238	Three-dimensional hierarchical porous carbon/graphene composites derived from graphene oxide-chitosan hydrogels for high performance supercapacitors. <i>Electrochimica Acta</i> , 2015 , 171, 13-22	6.7	103
1237	Free-standing boron and oxygen co-doped carbon nanofiber films for large volumetric capacitance and high rate capability supercapacitors. 2015 , 15, 235-243		94
1236	Nitrogen-doped porous graphene-activated carbon composite derived from Bucky gels for supercapacitors. <i>RSC Advances</i> , 2015 , 5, 10739-10745	3.7	25
1235	A new approach towards the synthesis of nitrogen-doped graphene/MnO ₂ hybrids for ultralong cycle-life lithium ion batteries. 2015 , 3, 6291-6296		50
1234	Cotton-derived bulk and fiber aerogels grafted with nitrogen-doped graphene. <i>Nanoscale</i> , 2015 , 7, 7550-787		60
1233	Graphitized hierarchical porous carbon nanospheres: simultaneous activation/graphitization and superior supercapacitive performance. 2015 , 3, 9565-9577		149
1232	Protic-salt-derived nitrogen/sulfur-codoped mesoporous carbon for the oxygen reduction reaction and supercapacitors. 2015 , 8, 1608-17		64

1231	Nitrogen-doped electrospun reduced graphene oxide-carbon nanofiber composite for capacitive deionization. <i>RSC Advances</i> , 2015 , 5, 34117-34124	3.7	52
1230	Promising biomass-based activated carbons derived from willow catkins for high performance supercapacitors. <i>Electrochimica Acta</i> , 2015 , 166, 1-11	6.7	292
1229	Lamellar-structured biomass-derived phosphorus- and nitrogen-co-doped porous carbon for high-performance supercapacitors. <i>New Journal of Chemistry</i> , 2015 , 39, 9497-9503	3.6	58
1228	Unbiased Quantification of the Electrochemical Stability Limits of Electrolytes and Ionic Liquids. 2015 , 162, A2250-A2258		36
1227	Ultrahigh volumetric capacitance and cyclic stability of fluorine and nitrogen co-doped carbon microspheres. 2015 , 6, 8503		438
1226	Nanofibrous microspheres via emulsion gelation and carbonization. 2015 , 51, 16864-7		13
1225	Soluble salt self-assembly-assisted synthesis of three-dimensional hierarchical porous carbon networks for supercapacitors. 2015 , 3, 22266-22273		81
1224	Synthesis of nitrogen-doped electrospun carbon nanofibers with superior performance as efficient supercapacitor electrodes in alkaline solution. <i>Electrochimica Acta</i> , 2015 , 185, 40-51	6.7	61
1223	Strongly coupled manganese ferrite/carbon black/polyaniline hybrid for low-cost supercapacitors with high rate capability. <i>Electrochimica Acta</i> , 2015 , 185, 218-228	6.7	89
1222	Structural and Chemical Dynamics of Pyridinic-Nitrogen Defects in Graphene. 2015 , 15, 7408-13		157
1221	Nitrogen and sulfur dual-doped graphene sheets as anode materials with superior cycling stability for lithium-ion batteries. <i>Electrochimica Acta</i> , 2015 , 184, 24-31	6.7	39
1220	Glucose-derived nitrogen-doped hierarchical hollow nest-like carbon nanostructures from a novel template-free method as an outstanding electrode material for supercapacitors. 2015 , 3, 24453-24462		73
1219	Controllable Synthesis of Functional Hollow Carbon Nanostructures with Dopamine As Precursor for Supercapacitors. 2015 , 7, 18609-17		116
1218	Facile synthesis of nitrogen-doped carbon nanosheets with hierarchical porosity for high performance supercapacitors and lithium-sulfur batteries. 2015 , 3, 18400-18405		86
1217	Nitrogen-Doped Carbon Nanocoil Array Integrated on Carbon Nanofiber Paper for Supercapacitor Electrodes. 2015 , 7, 19370-81		57
1216	Rutile-TiO ₂ decorated Li ₄ Ti ₅ O ₁₂ nanosheet arrays with 3D interconnected architecture as anodes for high performance hybrid supercapacitors. 2015 , 3, 23570-23576		55
1215	Functional Pillared Graphene Frameworks for Ultrahigh Volumetric Performance Supercapacitors. 2015 , 5, 1500771		157
1214	Three-Dimensional Nitrogen-Doped Hierarchical Porous Carbon as an Electrode for High-Performance Supercapacitors. 2015 , 21, 17293-8		56

1213	Oxygen- and Nitrogen-Enriched 3D Porous Carbon for Supercapacitors of High Volumetric Capacity. 2015 , 7, 24622-8		125
1212	Nitrogen-enriched porous carbon nanorods templated by cellulose nanocrystals as high performance supercapacitor electrodes. 2015 , 3, 23768-23777		71
1211	Titanium Oxynitride Nanoparticles Anchored on Carbon Nanotubes as Energy Storage Materials. 2015 , 7, 24212-7		26
1210	Porous nitrogen and phosphorus co-doped carbon nanofiber networks for high performance electrical double layer capacitors. 2015 , 3, 23268-23273		68
1209	Nitrogen-enriched hierarchical porous carbon with enhanced performance in supercapacitors and lithium-sulfur batteries. <i>RSC Advances</i> , 2015 , 5, 75403-75410	3-7	7
1208	Electrodeposition and pyrolysis of Mn/polypyrrole nanocomposites: a study based on soft X-ray absorption, fluorescence and photoelectron microspectroscopies. 2015 , 3, 19155-19167		21
1207	Synthesis of Multifunctional Carbon Nanostructures. 2015 , 89-126		1
1206	Porous nitrogen-doped graphene/carbon nanotubes composite with an enhanced supercapacitor performance. <i>Electrochimica Acta</i> , 2015 , 178, 517-524	6-7	60
1205	Fabrication of NiCo ₂ O ₄ and carbon nanotube nanocomposite films as a high-performance flexible electrode of supercapacitors. <i>RSC Advances</i> , 2015 , 5, 74032-74039	3-7	22
1204	Co(OH) ₂ /RGO/NiO sandwich-structured nanotube arrays with special surface and synergistic effects as high-performance positive electrodes for asymmetric supercapacitors. <i>Nanoscale</i> , 2015 , 7, 16932-42	7-7	25
1203	Controllable synthesis and capacitive performance of nitrogen-doped porous carbon from carboxymethyl chitosan by template carbonization method. 2015 , 19, 3087-3096		11
1202	Insight into high areal capacitances of low apparent surface area carbons derived from nitrogen-rich polymers. 2015 , 94, 560-567		44
1201	Nitrogen-doped carbon nanofibers with effectively encapsulated GeO ₂ nanocrystals for highly reversible lithium storage. 2015 , 3, 21699-21705		36
1200	Controllable Nitrogen Doping of High-Surface-Area Microporous Carbons Synthesized from an Organic-Inorganic Sol-Gel Approach for Li-S Cathodes. 2015 , 7, 21188-97		25
1199	Carbon@NiCo ₂ S ₄ nanorods: an excellent electrode material for supercapacitors. <i>RSC Advances</i> , 2015 , 5, 83408-83414	3-7	30
1198	Needle-like MnO ₂ /activated carbon nanocomposites derived from human hair as versatile electrode materials for supercapacitors. <i>RSC Advances</i> , 2015 , 5, 81492-81498	3-7	37
1197	Three-Dimensional NiCo ₂ O ₄ @Polypyrrole Coaxial Nanowire Arrays on Carbon Textiles for High-Performance Flexible Asymmetric Solid-State Supercapacitor. 2015 , 7, 21334-46		250
1196	The effect of carbonization temperature on the electrocatalytic performance of nitrogen-doped porous carbon as counter electrode of dye-sensitized solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 6913-6919	2-1	5

1195	Utilizing ionic liquids for controlled N-doping in hard-templated, mesoporous carbon electrodes for high-performance electrochemical double-layer capacitors. 2015 , 298, 193-202		37
1194	Hydrophobic and flexible cellulose aerogel as an efficient, green and reusable oil sorbent. <i>RSC Advances</i> , 2015 , 5, 82027-82033	3.7	80
1193	Zeolitic imidazolate framework-derived nitrogen-doped porous carbons as high performance supercapacitor electrode materials. 2015 , 85, 51-59		241
1192	Oxygen-rich hierarchical porous carbon derived from artemia cyst shells with superior electrochemical performance. 2015 , 7, 1132-9		219
1191	Biomass-derived porous carbon materials with sulfur and nitrogen dual-doping for energy storage. 2015 , 17, 1668-1674		481
1190	Sponge-like carbon thin films: The dealloying concept applied to copper/carbon nanocomposite. 2015 , 83, 250-261		12
1189	Highly ordered nitrogen-rich mesoporous carbon derived from biomass waste for high-performance lithium-sulfur batteries. 2015 , 84, 399-408		177
1188	Polybenzoxazine-based nitrogen-containing porous carbons for high-performance supercapacitor electrodes and carbon dioxide capture. <i>RSC Advances</i> , 2015 , 5, 5331-5342	3.7	42
1187	N-doped porous carbon capsules with tunable porosity for high-performance supercapacitors. 2015 , 3, 2914-2923		175
1186	Nitrogen-doped hierarchical porous carbon as an efficient electrode material for supercapacitors. <i>Electrochimica Acta</i> , 2015 , 153, 273-279	6.7	95
1185	Nitrogen-functionalized microporous carbon nanoparticles for high performance supercapacitor electrode. <i>Electrochimica Acta</i> , 2015 , 153, 448-455	6.7	159
1184	Nitrogen-doped hierarchical porous carbon materials prepared from meta-aminophenol formaldehyde resin for supercapacitor with high rate performance. <i>Electrochimica Acta</i> , 2015 , 153, 68-75	6.7	156
1183	Sulfur-doped graphene derived from cycled lithium-sulfur batteries as a metal-free electrocatalyst for the oxygen reduction reaction. 2015 , 54, 1888-92		293
1182	Sulfur-Doped Graphene Derived from Cycled Lithium-Sulfur Batteries as a Metal-Free Electrocatalyst for the Oxygen Reduction Reaction. 2015 , 127, 1908-1912		50
1181	Understanding the stability and reactivity of ultrathin tellurium nanowires in solution: An emerging platform for chemical transformation and material design. 2015 , 8, 1081-1097		37
1180	Porous nitrogen-doped carbon microspheres derived from microporous polymeric organic frameworks for high performance electric double-layer capacitors. 2015 , 21, 2310-4		36
1179	Vertically aligned epitaxial graphene nanowalls with dominated nitrogen doping for superior supercapacitors. 2015 , 82, 124-134		58
1178	Exceptional electrochemical performance of nitrogen-doped porous carbon for lithium storage. 2015 , 82, 116-123		90

1177	Lithographically defined three-dimensional pore-patterned carbon with nitrogen doping for high-performance ultrathin supercapacitor applications. <i>Scientific Reports</i> , 2014 , 4, 5392	4.9	28
1176	Densely packed graphene nanomesh-carbon nanotube hybrid film for ultra-high volumetric performance supercapacitors. 2015 , 11, 471-480		189
1175	Design and fabrication of hierarchically porous carbon with a template-free method. <i>Scientific Reports</i> , 2014 , 4, 6349	4.9	65
1174	Elucidating the effect of copper as a redox additive and dopant on the performance of a PANI based supercapacitor. 2015 , 17, 878-87		45
1173	Comparison of melamine resin and melamine network as precursors for carbon electrodes. 2015 , 81, 239-250		27
1172	Using common salt to impart pseudocapacitive functionalities to carbon nanofibers. 2015 , 3, 377-385		40
1171	One-dimensional nitrogen-containing carbon nanostructures. 2015 , 69, 61-182		85
1170	Carbon materialization of ionic liquids: from solvents to materials. 2015 , 2, 168-197		135
1169	Graphene/silk fibroin based carbon nanocomposites for high performance supercapacitors. 2015 , 3, 773-781		61
1168	Electrochemical properties for high surface area and improved electrical conductivity of platinum-embedded porous carbon nanofibers. 2015 , 274, 536-541		54
1167	Facile synthesis of hollow carbonized polyaniline spheres to encapsulate selenium for advanced rechargeable lithium-selenium batteries. 2015 , 619, 794-799		29
1166	Urea-treated carbon nanofibers as efficient catalytic materials for oxygen reduction reaction. 2015 , 273, 810-815		25
1165	Asymmetric supercapacitor based on nanostructured graphene foam/polyvinyl alcohol/formaldehyde and activated carbon electrodes. 2015 , 273, 305-311		59
1164	In situ carbon nanofibers/Au ternary synergetic system: hierarchical assembly and enhanced visible-light photocatalytic activity. 2015 , 283, 599-607		33
1163	Performance Enhancement of Carbon Nanomaterials for Supercapacitors. 2016 , 2016, 1-17		30
1162	Heteroatom-Doped Carbon Nanostructures Derived from Conjugated Polymers for Energy Applications. <i>Polymers</i> , 2016 , 8,	4.5	31
1161	Nitrogen-Doped Banana Peel-Derived Porous Carbon Foam as Binder-Free Electrode for Supercapacitors. 2016 , 6,		44
1160	Nitrogen-Doped Nanoporous Carbons through Direct Carbonization of a Metal-Biomolecule Framework for Supercapacitor. 2016 , 34, 203-209		5

1159	Flexible SnO ₂ /N-Doped Carbon Nanofiber Films as Integrated Electrodes for Lithium-Ion Batteries with Superior Rate Capacity and Long Cycle Life. 2016 , 12, 853-9		264
1158	A High-Energy Lithium-Ion Capacitor by Integration of a 3D Interconnected Titanium Carbide Nanoparticle Chain Anode with a Pyridine-Derived Porous Nitrogen-Doped Carbon Cathode. 2016 , 26, 3082-3093		292
1157	Heteroatom-Containing Porous Carbons Derived from Ionic Liquid-Doped Alkali Organic Salts for Supercapacitors. 2016 , 12, 1935-44		49
1156	Quantitative Control of Pore Size of Mesoporous Carbon Nanospheres through the Self-Assembly of Diblock Copolymer Micelles in Solution. 2016 , 12, 3155-63		92
1155	Using Asphaltene Supermolecules Derived from Coal for the Preparation of Efficient Carbon Electrodes for Supercapacitors. 2016 , 120, 15105-15113		32
1154	Preparation of coralline-like nitrogen-doped porous carbon by urea-assisted pyrolysis of low-cost and environmental friendly polyaniline. 2016 , 35, 840-846		8
1153	Radially Aligned Porous Carbon Nanotube Arrays on Carbon Fibers: A Hierarchical 3D Carbon Nanostructure for High-Performance Capacitive Energy Storage. 2016 , 26, 3012-3020		117
1152	Nitrogen-Doped Carbon Fiber Paper by Active Screen Plasma Nitriding and Its Microwave Heating Properties. 2016 , 8, 35606-35613		3
1151	Heteroatom enhanced sodium ion capacity and rate capability in a hydrogel derived carbon give record performance in a hybrid ion capacitor. 2016 , 23, 129-137		142
1150	N-doped hierarchical porous carbon derived from hypercrosslinked diblock copolymer for capacitive deionization. 2016 , 165, 190-198		67
1149	Binder-free supercapacitive of ultrathin Co(OH) ₂ nanosheets-decorated nitrogen-doped carbon nanotubes core-shell nanostructures. 2016 , 31, 521-525		15
1148	A macroscopic three-dimensional tetrapod-separated graphene-like oxygenated N-doped carbon nanosheet architecture for use in supercapacitors. 2016 , 4, 9900-9909		74
1147	Nitrogen-doped functional graphene nanocomposites for capacitive deionization of NaCl aqueous solutions. 2016 , 20, 2351-2362		13
1146	Three-dimensional graphene-like carbon frameworks as a new electrode material for electrochemical determination of small biomolecules. 2016 , 85, 618-624		39
1145	Nitrogen-doped carbon nanofibers derived from polypyrrole coated bacterial cellulose as high-performance electrode materials for supercapacitors and Li-ion batteries. <i>Electrochimica Acta</i> , 2016 , 210, 130-137	6.7	46
1144	Engineering of Two-dimensional Cobalt-Glycine Complex Thin Sheets of Vertically Aligned Nanosheet Basic Building Blocks for High Performance Supercapacitor Electrode Materials. <i>Electrochimica Acta</i> , 2016 , 210, 462-473	6.7	15
1143	Sonochemical preparation of a ytterbium oxide/reduced graphene oxide nanocomposite for supercapacitors with enhanced capacitive performance. <i>RSC Advances</i> , 2016 , 6, 51211-51220	3.7	55
1142	Molten salt synthesis of nitrogen doped porous carbon: a new preparation methodology for high-volumetric capacitance electrode materials. 2016 , 4, 9832-9843		124

1141	Porous Nitrogen-Doped Carbon Nanoribbons for High-Performance Gas Adsorbents and Lithium Ion Batteries. 2016 , 55, 6384-6390		22
1140	Facile synthesis of 3D hierarchical N-doped graphene nanosheet/cobalt encapsulated carbon nanotubes for high energy density asymmetric supercapacitors. 2016 , 4, 9555-9565		91
1139	Porous carbon materials with dual N, S-doping and uniform ultra-microporosity for high performance supercapacitors. <i>Electrochimica Acta</i> , 2016 , 209, 557-564	6.7	82
1138	Luminescence properties and Judd-Ofelt analysis of TiO ₂ :Eu ³⁺ nanofibers via polymer-based electrospinning method. <i>RSC Advances</i> , 2016 , 6, 52113-52121	3.7	27
1137	Nitrogen-doped porous carbon materials: promising catalysts or catalyst supports for heterogeneous hydrogenation and oxidation. 2016 , 6, 3670-3693		202
1136	(Metal-Organic Framework)-Polyaniline sandwich structure composites as novel hybrid electrode materials for high-performance supercapacitor. 2016 , 316, 176-182		102
1135	Surfactant-Free Assembly of Mesoporous Carbon Hollow Spheres with Large Tunable Pore Sizes. <i>ACS Nano</i> , 2016 , 10, 4579-86	16.7	293
1134	Facile preparation of nitrogen-doped porous carbon for high performance symmetric supercapacitor. 2016 , 20, 1613-1623		21
1133	Synthesis of N-Doped Hollow-Structured Mesoporous Carbon Nanospheres for High-Performance Supercapacitors. 2016 , 8, 7194-204		156
1132	A new strategy to tailor the structure of sustainable 3D hierarchical porous N-self-doped carbons from renewable biomass for high-performance supercapacitors and CO ₂ capture. <i>RSC Advances</i> , 2016 , 6, 34261-34270	3.7	23
1131	Cobalt-nitrogen-doped ordered macro-/mesoporous carbon for highly efficient oxygen reduction reaction. 2016 , 193, 1-8		136
1130	Nitrogen-doped carbonized cotton for highly flexible supercapacitors. 2016 , 105, 260-267		85
1129	Synthesis of nitrogen-containing hollow carbon microspheres by a modified template method as anodes for advanced sodium-ion batteries. 2016 , 105, 103-112		64
1128	Electrochemical Exfoliation of Graphite into Nitrogen-doped Graphene in Glycine Solution and its Energy Storage Properties. <i>Electrochimica Acta</i> , 2016 , 204, 100-107	6.7	50
1127	Three-Dimensional Network of N-Doped Carbon Ultrathin Nanosheets with Closely Packed Mesopores: Controllable Synthesis and Application in Electrochemical Energy Storage. 2016 , 8, 11720-8		79
1126	Nitrogen-rich hierarchical porous hollow carbon nanofibers for high-performance supercapacitor electrodes. <i>RSC Advances</i> , 2016 , 6, 41473-41476	3.7	22
1125	Polybenzoxazine-based highly porous carbon nanofibrous membranes hybridized by tin oxide nanoclusters: durable mechanical elasticity and capacitive performance. 2016 , 4, 7795-7804		33
1124	Boron-doped ordered mesoporous carbons for the application of supercapacitors. <i>Electrochimica Acta</i> , 2016 , 207, 266-274	6.7	71

1123	Preparation of edge-nitrogenated graphene nanoplatelets as an efficient electrode material for supercapacitors. <i>Electrochimica Acta</i> , 2016 , 208, 47-54	6.7	14
1122	A two-dimensional conjugated polymer framework with fully sp ² -bonded carbon skeleton. 2016 , 7, 4176-4181	222	
1121	A melamine-assisted chemical blowing synthesis of N-doped activated carbon sheets for supercapacitor application. 2016 , 319, 262-270		155
1120	Ni ₃ Si ₂ nanowires grown in situ on Ni foam for high-performance supercapacitors. 2016 , 320, 13-19		35
1119	ZIF-8@Polyvinylpyrrolidone Nanocomposites Based N-Doped Porous Carbon for Highly Efficient Oxygen Reduction Reaction in Alkaline Solution. 2016 , 163, H459-H464		12
1118	Supercapacitive performance of electrochemically doped TiO ₂ nanotube arrays decorated with Cu ₂ O nanoparticles. <i>RSC Advances</i> , 2016 , 6, 47669-47675	3-7	13
1117	Activated hierarchical porous carbon as electrode membrane accommodated with triblock copolymer for supercapacitors. 2016 , 514, 366-375		34
1116	Kinetically Controlled Assembly of Nitrogen-Doped Invaginated Carbon Nanospheres with Tunable Mesopores. 2016 , 22, 14962-14967		14
1115	Pitaya-like microspheres derived from Prussian blue analogues as ultralong-life anodes for lithium storage. 2016 , 4, 15041-15048		30
1114	Ultrathin paper-like boron-doped carbon nanosheet electrodes combined with boron-enriched gel polymer electrolytes for high-performance energy storage. 2016 , 4, 15589-15596		13
1113	Sodium-ion supercapacitors based on nanoporous pyroproteins containing redox-active heteroatoms. 2016 , 329, 536-545		20
1112	Mesoporous and Nanostructured TiO layer with Ultra-High Loading on Nitrogen-Doped Carbon Foams as Flexible and Free-Standing Electrodes for Lithium-Ion Batteries. 2016 , 12, 6724-6734		72
1111	Buffering agents-assisted synthesis of nitrogen-doped graphene with oxygen-rich functional groups for enhanced electrochemical performance. 2016 , 333, 125-133		29
1110	Binder-free hierarchically-porous carbon nanofibers decorated with cobalt nanoparticles as efficient cathodes for lithium-oxygen batteries. <i>RSC Advances</i> , 2016 , 6, 103072-103080	3-7	16
1109	A super high performance asymmetric supercapacitor based on Co ₃ S ₄ /NiS nanoplates electrodes. <i>RSC Advances</i> , 2016 , 6, 97482-97490	3-7	21
1108	Efficient Access of Voltammetric Charge in Hybrid Supercapacitor Configured with Potassium Incorporated Nanographitic Structure Derived from Cotton (<i>Gossypium arboreum</i>) as Negative and Ni(OH) ₂ /rGO Composite as Positive Electrode. 2016 , 55, 11074-11084		10
1107	Mesoporous Carbon Nanomaterials. 2016 , 505-540		
1106	Nitrogen-rich carbon spheres made by a continuous spraying process for high-performance supercapacitors. 2016 , 9, 3209-3221		59

1105	Highly microporous carbons derived from a complex of glutamic acid and zinc chloride for use in supercapacitors. 2016 , 327, 535-542		27
1104	Bridging the performance gap between electric double-layer capacitors and batteries with high-energy/high-power carbon nanotube-based electrodes. 2016 , 4, 14586-14594		33
1103	Simultaneous micropore development and nitrogen doping of ordered mesoporous carbons for enhanced supercapacitor and Li-S cathode performance. <i>Electrochimica Acta</i> , 2016 , 214, 231-240	6.7	19
1102	Mesoporous graphitic carbon microtubes derived from fullerene C70 tubes as a high performance electrode material for advanced supercapacitors. 2016 , 4, 13899-13906		64
1101	Three-Dimensional Porous Nitrogen doped Graphene Hydrogel for High Energy Density supercapacitors. <i>Electrochimica Acta</i> , 2016 , 213, 291-297	6.7	70
1100	Electroactive polymer/graphene oxide nanostructured composites; evidence for direct chemical interactions between PEDOT and GOx. 2016 , 220, 334-346		21
1099	Nitrogen-Doped Porous Carbon/Graphene Aerogel with Much Enhanced Capacitive Behaviors. <i>Electrochimica Acta</i> , 2016 , 215, 100-107	6.7	27
1098	N-P-O co-doped high performance 3D graphene prepared through red phosphorous-assisted cutting-thin technique: A universal synthesis and multifunctional applications. 2016 , 28, 346-355		181
1097	A shiitake-derived nitrogen/oxygen/phosphorus co-doped carbon framework with hierarchical tri-modal porosity for high-performance electrochemical capacitors. <i>RSC Advances</i> , 2016 , 6, 81527-81533	3.7	12
1096	2D Thin Nanoflakes Assembled on Mesoporous Carbon Nanorods for Enhancing Electrocatalysis and for Improving Asymmetric Supercapacitors. 2016 , 26, 7766-7774		69
1095	Highly conjugated graphitic 3D carbon frameworks for supercapacitors with long cycling stability. 2016 , 109, 650-657		17
1094	Interface miscibility induced double-capillary carbon nanofibers for flexible electric double layer capacitors. 2016 , 28, 232-240		54
1093	Preparation and modification of high performance porous carbons from petroleum coke for use as supercapacitor electrodes. 2016 , 31, 343-351		21
1092	Thermally removable in-situ formed ZnO template for synthesis of hierarchically porous N-doped carbon nanofibers for enhanced electrocatalysis. 2016 , 9, 2270-2283		47
1091	Role of Graphene Oxide Liquid Crystals in Hydrothermal Reduction and Supercapacitor Performance. 2016 , 8, 22316-23		26
1090	Porous nitrogen-rich carbon materials from carbon self-repairing g-C ₃ N ₄ assembled with graphene for high-performance supercapacitor. 2016 , 4, 14307-14315		78
1089	Flexible micro supercapacitors based on laser-scribed graphene/ZnO nanocomposite. 2016 , 18, 1		21
1088	Graphene supported nitrogen-doped porous carbon nanosheets derived from zeolitic imidazolate framework for high performance supercapacitors. <i>RSC Advances</i> , 2016 , 6, 78947-78953	3.7	20

1087	Engineering the Li Storage Properties of Graphene Anodes: Defect Evolution and Pore Structure Regulation. 2016 , 8, 33712-33722		16
1086	Ultrafine N-doped carbon nanoparticles with controllable size to enhance electrocatalytic activity for oxygen reduction reaction. <i>RSC Advances</i> , 2016 , 6, 110758-110764	3-7	10
1085	Nanostructured core-shell electrode materials for electrochemical capacitors. 2016 , 331, 408-425		82
1084	N-doped interconnected carbon sheets for energy storage application. 2016 , 84, 350-354		3
1083	2D graphene-like hierarchically porous carbon nanosheets from a nano-MgO template and ZnCl ₂ activation: morphology, porosity and supercapitance performance. <i>RSC Advances</i> , 2016 , 6, 71360-71369	3-7	22
1082	Hierarchical polypyrrole/Ni ₃ S ₂ @MoS ₂ core-shell nanostructures on a nickel foam for high-performance supercapacitors. <i>RSC Advances</i> , 2016 , 6, 68460-68467	3-7	27
1081	Nanomaterials in Advanced Batteries and Supercapacitors. 2016 ,		21
1080	Asymmetric Supercapacitor Based on Porous N-doped Carbon Derived from Pomelo Peel and NiO Arrays. 2016 , 8, 20822-30		93
1079	Carbon Materials for Supercapacitors. 2016 , 271-315		3
1078	Space-Confined Synthesis of Three-Dimensional Boron/Nitrogen-Doped Carbon Nanotubes/Carbon Nanosheets Line-in-Wall Hybrids and Their Electrochemical Energy Storage Applications. <i>Electrochimica Acta</i> , 2016 , 212, 621-629	6-7	33
1077	Free-Standing 3D Nanoporous Duct-Like and Hierarchical Nanoporous Graphene Films for Micron-Level Flexible Solid-State Asymmetric Supercapacitors. 2016 , 6, 1600755		48
1076	In situ construction of carbon nanotubes/nitrogen-doped carbon polyhedra hybrids for supercapacitors. 2016 , 5, 132-138		57
1075	Enhanced Electrocatalytic Performance of a Porous g-C ₃ N ₄ /Graphene Composite as a Counter Electrode for Dye-Sensitized Solar Cells. 2016 , 22, 11763-9		23
1074	Bilayered Biofoam for Highly Efficient Solar Steam Generation. 2016 , 28, 9400-9407		372
1073	Is the conductive agent useful in electrodes of graphitized activated carbon?. <i>RSC Advances</i> , 2016 , 6, 100708-100712	3-7	4
1072	Facile fabrication of Co ₂ CuS ₄ nanoparticle anchored N-doped graphene for high-performance asymmetric supercapacitors. 2016 , 4, 17560-17571		121
1071	Multi-template synthesis of hierarchically porous carbon spheres with potential application in supercapacitors. <i>RSC Advances</i> , 2016 , 6, 111406-111414	3-7	7
1070	Synthesis of Nitrogen and Sulfur Co-Doped Carbon Derived from Chromium Carbide for the High Performance Supercapacitor. 2016 , 163, A2991-A2998		27

1069	Heteroatom-doped hollow carbon microspheres based on amphiphilic supramolecular vesicles and highly crosslinked polyphosphazene for high performance supercapacitor electrode materials. <i>Electrochimica Acta</i> , 2016 , 222, 543-550	6.7	13
1068	Activated Carbon Nanofibers. 2016 , 267-285		
1067	Porous N-doped carbon microfibrils derived from cattail as high-performance electrodes for supercapacitors. 2016 , 12, 225		1
1066	Controllable-multichannel carbon nanofibers-based amorphous vanadium as binder-free and conductive-free electrode materials for supercapacitor. 2016 , 41, 22144-22154		18
1065	Use of Nutrient Rich Hydrophytes to Create N,P-Dually Doped Porous Carbon with Robust Energy Storage Performance. 2016 , 50, 12421-12428		38
1064	Heteroatom Polymer-Derived 3D High-Surface-Area and Mesoporous Graphene Sheet-Like Carbon for Supercapacitors. 2016 , 8, 30212-30224		50
1063	Nitrogen-doped Carbon Microfiber with Wrinkled Surface for High Performance Supercapacitors. <i>Scientific Reports</i> , 2016 , 6, 21750	4.9	22
1062	Magnetic properties of N-doped graphene with high Curie temperature. <i>Scientific Reports</i> , 2016 , 6, 21832-9	4.9	57
1061	Direct interfacial growth of MnO ₂ nanoparticles on carbon nanofiber surfaces for high-performance asymmetric supercapacitors. <i>RSC Advances</i> , 2016 , 6, 107638-107643	3.7	8
1060	Enhanced cycle performance of ultraflexible asymmetric supercapacitors based on a hierarchical MnO ₂ @NiMoO ₄ core-shell nanostructure and porous carbon. 2016 , 4, 18181-18187		59
1059	Elastic Carbon Nanotube Aerogel Meets Tellurium Nanowires: A Binder- and Collector-Free Electrode for Li-Te Batteries. 2016 , 26, 3580-3588		62
1058	Facile Synthesis of Nitrogen-Containing Mesoporous Carbon for High-Performance Energy Storage Applications. 2016 , 22, 4256-62		16
1057	Facile preparation of N,S-doped hierarchical porous carbons based on 3-aminophenol-3-mercaptophenol co-resins for supercapacitor applications. <i>RSC Advances</i> , 2016 , 6, 58764-58770	3.7	15
1056	Biomass-derived dendritic-like porous carbon aerogels for supercapacitors. <i>Electrochimica Acta</i> , 2016 , 210, 897-904	6.7	38
1055	Pyrrole modified biomass derived hierarchical porous carbon as high performance symmetrical supercapacitor electrodes. 2016 , 41, 13109-13115		32
1054	Plasma-assisted nitrogen doping of VACNTs for efficiently enhancing the supercapacitor performance. 2016 , 18, 1		9
1053	Interconnected honeycomb-like porous carbon derived from plane tree fluff for high performance supercapacitors. 2016 , 4, 10869-10877		68
1052	Construction of nitrogen-doped porous carbon buildings using interconnected ultra-small carbon nanosheets for ultra-high rate supercapacitors. 2016 , 4, 11388-11396		122

1051	Nano nickel oxide coated graphene/polyaniline composite film with high electrochemical performance for flexible supercapacitor. <i>Electrochimica Acta</i> , 2016 , 211, 1066-1075	6.7	67
1050	Fabrication of ultrafine manganese oxide-decorated carbon nanofibers for high-performance electrochemical capacitors. <i>Electrochimica Acta</i> , 2016 , 211, 524-532	6.7	12
1049	Preparation of a two-dimensional flexible MnO ₂ /graphene thin film and its application in a supercapacitor. 2016 , 4, 10618-10626		66
1048	Hierarchical networks of redox-active reduced crumpled graphene oxide and functionalized few-walled carbon nanotubes for rapid electrochemical energy storage. <i>Nanoscale</i> , 2016 , 8, 12330-8	7.7	30
1047	All-solid-state asymmetric supercapacitors based on ZnO quantum dots/carbon/CNT and porous N-doped carbon/CNT electrodes derived from a single ZIF-8/CNT template. 2016 , 4, 10282-10293		92
1046	High-performance supercapacitor electrode from cellulose-derived, inter-bonded carbon nanofibers. 2016 , 324, 302-308		100
1045	Enhanced microwave absorption properties of N-doped ordered mesoporous carbon plated with metal Co. 2016 , 680, 553-559		39
1044	Enhanced electrochemical performance of phosphorus incorporated carbon nanofibers by the spin-on dopant method. <i>RSC Advances</i> , 2016 , 6, 58823-58830	3.7	11
1043	Nitrogen-doped porous carbon derived from a bimetallic metal-organic framework as highly efficient electrodes for flow-through deionization capacitors. 2016 , 4, 10858-10868		135
1042	Nitrogen-Doped High Surface Area Carbon as Efficient Electrode Material for Supercapacitors. 2016 , 11, 1650076		6
1041	Hierarchically Flower-like N-Doped Porous Carbon Materials Derived from an Explosive 3-Fold Interpenetrating Diamondoid Copper Metal-Organic Framework for a Supercapacitor. 2016 , 55, 6552-62		67
1040	Porous and high electronic conductivity nitrogen-doped nano-sheet carbon derived from polypyrrole for high-power supercapacitors. 2016 , 107, 638-645		79
1039	Twisted yarns for fiber-shaped supercapacitors based on wet-spun PEDOT:PSS fibers from aqueous coagulation. 2016 , 4, 11616-11624		79
1038	A flexible, transparent and super-long-life supercapacitor based on ultrafine Co ₃ O ₄ nanocrystal electrodes. <i>Nanoscale</i> , 2016 , 8, 4227-35	7.7	178
1037	Dual tuning of 1 D heteroatoms doped porous carbon nanoarchitectures for supercapacitors: the role of balanced P/N doping and core@shell nano-networks. <i>RSC Advances</i> , 2016 , 6, 9180-9185	3.7	8
1036	Bamboo-like carbon nanotubes containing sulfur for high performance supercapacitors. <i>Electrochimica Acta</i> , 2016 , 191, 846-853	6.7	32
1035	New Graphene Form of Nanoporous Monolith for Excellent Energy Storage. 2016 , 16, 349-54		86
1034	Biomass-Derived Carbon Fiber Aerogel as a Binder-Free Electrode for High-Rate Supercapacitors. 2016 , 120, 2079-2086		217

1033	Sustainable Low-Cost Green Electrodes with High Volumetric Capacitance for Aqueous Symmetric Supercapacitors with High Energy Density. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 1422-1430	8.3	83
1032	Porous carbon nanoflakes with a high specific surface area derived from a kapok fiber for high-performance electrode materials of supercapacitors. <i>RSC Advances</i> , 2016 , 6, 6967-6977	3.7	17
1031	Fabrication of high surface area graphene electrodes with high performance towards enzymatic oxygen reduction. <i>Electrochimica Acta</i> , 2016 , 191, 500-509	6.7	29
1030	One-step synthesis of NiCo ₂ S ₄ ultrathin nanosheets on conductive substrates as advanced electrodes for high-efficient energy storage. 2016 , 306, 100-106		142
1029	Simultaneous sulfur doping and exfoliation of graphene from graphite using an electrochemical method for supercapacitor electrode materials. 2016 , 4, 233-240		130
1028	Promising Nitrogen-Rich Porous Carbons Derived from One-Step Calcium Chloride Activation of Biomass-Based Waste for High Performance Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 177-187	8.3	174
1027	Bacterial Cellulose: A Robust Platform for Design of Three Dimensional Carbon-Based Functional Nanomaterials. 2016 , 49, 96-105		268
1026	Carbon materials for high volumetric performance supercapacitors: design, progress, challenges and opportunities. 2016 , 9, 729-762		876
1025	Fabrication of flexible hierarchical porous nitrogen-doped carbon nanofiber films for application in binder-free supercapacitors. 2016 , 169, 1-5		27
1024	Space-confined assembly of all-carbon hybrid fibers for capacitive energy storage: realizing a built-to-order concept for micro-supercapacitors. 2016 , 9, 611-622		88
1023	Nitrogen-doped hierarchical porous carbon derived from block copolymer for supercapacitor. 2016 , 3, 140-148		50
1022	Recent approaches and future prospects of bacterial cellulose-based electroconductive materials. 2016 , 51, 5573-5588		40
1021	Bendable and flexible supercapacitor based on polypyrrole-coated bacterial cellulose core-shell composite network. 2016 , 128, 33-40		71
1020	A facile one-step approach to hierarchically assembled core-shell-like MnO ₂ @MnO ₂ nanoarchitectures on carbon fibers: An efficient and flexible electrode material to enhance energy storage. 2016 , 9, 1507-1522		74
1019	Flexible solid-state supercapacitors based on freestanding nitrogen-doped porous carbon nanofibers derived from electrospun polyacrylonitrile@polyaniline nanofibers. 2016 , 4, 4180-4187		170
1018	3D hierarchical porous N-doped carbon aerogel from renewable cellulose: an attractive carbon for high-performance supercapacitor electrodes and CO ₂ adsorption. <i>RSC Advances</i> , 2016 , 6, 15788-15795	3.7	96
1017	Rapid Preparation of Crosslinked N-doped Graphene by Burning Method for High-Performance Electrochemical Capacitors. <i>Electrochimica Acta</i> , 2016 , 192, 243-250	6.7	11
1016	Organic Amine-Mediated Synthesis of Polymer and Carbon Microspheres: Mechanism Insight and Energy-Related Applications. 2016 , 8, 4851-61		24

1015	One-pot synthesis of graphene/zinc oxide by microwave irradiation with enhanced supercapacitor performance. <i>RSC Advances</i> , 2016 , 6, 19394-19403	3.7	45
1014	Outstanding capacitive performance of reticular porous carbon/graphene sheets with superhigh surface area. <i>Electrochimica Acta</i> , 2016 , 190, 923-931	6.7	27
1013	Preparation and electrochemical performances of Co/Ni(1-x)(OH) ₂ coated carbon nanotube free standing films as flexible electrode for supercapacitors. 2016 , 1-7		0
1012	Three-dimensional freestanding hierarchically porous carbon materials as binder-free electrodes for supercapacitors: high capacitive property and long-term cycling stability. 2016 , 4, 5623-5631		70
1011	Preparation and electrochemical performance of attapulgite/citric acid template carbon electrode materials. 2016 , 46, 299-307		8
1010	Hydrogel-derived heteroatom-doped porous carbon networks for supercapacitor and electrocatalytic oxygen reduction. 2016 , 103, 9-15		122
1009	Nitrogen-modified biomass-derived cheese-like porous carbon for electric double layer capacitors. <i>RSC Advances</i> , 2016 , 6, 26738-26744	3.7	18
1008	Hierarchically structured nitrogen-doped carbon for advanced supercapacitor electrode materials. 2016 , 22, 1197-1207		14
1007	Nitrogen-doped interconnected carbon nanosheets from pomelo mesocarps for high performance supercapacitors. <i>Electrochimica Acta</i> , 2016 , 190, 862-871	6.7	140
1006	Nitrogen Doped Microporous Carbons with Tunable and Selective performances in Supercapacitor and Heterogeneous Catalysis. <i>Electrochimica Acta</i> , 2016 , 190, 912-922	6.7	24
1005	Pyrolytic cyanobacteria derived activated carbon as high performance electrode in symmetric supercapacitor. 2016 , 94, 666-671		27
1004	Novel 3-D network SeS /NCPAN composites prepared by one-pot in-situ solid-state method and its electrochemical performance as cathode material for lithium-ion battery. 2016 , 664, 92-98		25
1003	Porous carbon@MnO ₂ and nitrogen-doped porous carbon from carbonized loofah sponge for asymmetric supercapacitor with high energy and power density. <i>Journal of Electroanalytical Chemistry</i> , 2016 , 763, 90-96	4.1	53
1002	Preparation and capacitive performance of porous carbon materials derived from eulaliopsis binata. <i>Electrochimica Acta</i> , 2016 , 189, 93-100	6.7	39
1001	Probing the electrochemical properties of TiO ₂ /graphene composite by cyclic voltammetry and impedance spectroscopy. 2016 , 206, 22-29		23
1000	Graphene/N-doped carbon sandwiched nanosheets with ultrahigh nitrogen doping for boosting lithium-ion batteries. 2016 , 4, 1423-1431		118
999	Mesoporous TiO ₂ and Co-doped TiO ₂ Nanotubes/Reduced Graphene Oxide Composites as Electrodes for Supercapacitors. <i>Electrochimica Acta</i> , 2016 , 190, 104-117	6.7	62
998	Systematic investigation of reduced graphene oxide foams for high-performance supercapacitors. <i>Electrochimica Acta</i> , 2016 , 190, 168-177	6.7	30

997	A new approach of structural and chemical modification on graphene electrodes for high-performance supercapacitors. 2016 , 100, 7-15		46
996	Polyaniline-coated electrospun carbon nanofibers with high mass loading and enhanced capacitive performance as freestanding electrodes for flexible solid-state supercapacitors. 2016 , 95, 233-241		97
995	Conversion of uniform graphene oxide/polypyrrole composites into functionalized 3D carbon nanosheet frameworks with superior supercapacitive and sodium-ion storage properties. 2016 , 307, 17-24		21
994	A simple CaCO ₃ -assisted template carbonization method for producing nitrogen doped porous carbons as electrode materials for supercapacitors. <i>Electrochimica Acta</i> , 2016 , 188, 757-766	6.7	33
993	Ultrathin nanoflakes of cobalt-manganese layered double hydroxide with high reversibility for asymmetric supercapacitor. 2016 , 306, 526-534		193
992	Design of a layered nanoreactor to produce nitrogen doped carbon nanosheets as highly efficient material for supercapacitors. 2016 , 89, 708-714		24
991	N,P-co-doped carbon nanowires prepared from bacterial cellulose for supercapacitor. 2016 , 51, 2627-2633		62
990	Review on recent advances in nitrogen-doped carbons: preparations and applications in supercapacitors. 2016 , 4, 1144-1173		706
989	Nitrogen-doped porous carbon derived from residuary shaddock peel: a promising and sustainable anode for high energy density asymmetric supercapacitors. 2016 , 4, 372-378		102
988	Bifunctional Nitrogen-Doped Microporous Carbon Microspheres Derived from Poly(o-methylaniline) for Oxygen Reduction and Supercapacitors. 2016 , 8, 3601-8		75
987	Synthesis of porous carbon nanofiber with bamboo-like carbon nanofiber branches by one-step carbonization process. <i>Applied Surface Science</i> , 2017 , 402, 456-462	6.7	15
986	Porous One-Dimensional Nanomaterials: Design, Fabrication and Applications in Electrochemical Energy Storage. 2017 , 29, 1602300		435
985	Preparation of electrospun Ag/g-C ₃ N ₄ loaded composite carbon nanofibers for catalytic applications. 2017 , 4, 015603		13
984	One-step synthesis of Co-TiC-carbon composite nanofibers at low temperature. 2017 , 43, 5828-5831		14
983	Doping with Graphitic Nitrogen Triggers Ferromagnetism in Graphene. 2017 , 139, 3171-3180		124
982	Superior lithium storage in nitrogen-doped carbon nanofibers with open-channels. <i>Chemical Engineering Journal</i> , 2017 , 315, 1-9	14.7	21
981	Anchoring samarium oxide nanoparticles on reduced graphene oxide for high-performance supercapacitor. <i>Applied Surface Science</i> , 2017 , 402, 245-253	6.7	63
980	Microwave Electromagnetic and Absorption Properties of N-Doped Ordered Mesoporous Carbon Decorated with Ferrite Nanoparticles. 2017 , 121, 3846-3853		51

979	Recent Progress in Metal-Organic Frameworks and Their Derived Nanostructures for Energy and Environmental Applications. 2017 , 10, 1645-1663		155
978	Materials Design and System Construction for Conventional and New-Concept Supercapacitors. 2017 , 4, 1600382		289
977	Controlled synthesis of hierarchical CoMn ₂ O ₄ nanostructures for flexible all-solid-state battery-type electrodes. 2017 , 21, 1579-1587		9
976	A protic salt-derived porous carbon for efficient capacitive deionization: Balance between porous structure and chemical composition. 2017 , 116, 21-32		57
975	Design and preparation of a ternary composite of graphene oxide/carbon dots/polypyrrole for supercapacitor application: Importance and unique role of carbon dots. 2017 , 115, 134-146		157
974	A high-power lithium-ion hybrid electrochemical capacitor based on citrate-derived electrodes. <i>Electrochimica Acta</i> , 2017 , 228, 76-81	6.7	39
973	A Continuous Carbon Nitride Polyhedron Assembly for High-Performance Flexible Supercapacitors. 2017 , 27, 1606219		115
972	Three-dimensional nitrogen-doped graphene derived from poly- o -phenylenediamine for high-performance supercapacitors. <i>Journal of Electroanalytical Chemistry</i> , 2017 , 787, 103-109	4.1	30
971	Fabrication of free-standing N-doped carbon/TiO ₂ hierarchical nanofiber films and their application in lithium and sodium storages. 2017 , 701, 372-379		26
970	Improvement in the surface properties of activated carbon via steam pretreatment for high performance supercapacitors. <i>Applied Surface Science</i> , 2017 , 404, 88-93	6.7	31
969	Facile synthesis of novel bowl-like hollow carbon spheres by the combination of hydrothermal carbonization and soft templating. 2017 , 53, 2922-2925		44
968	Construction of cobalt sulfide/graphitic carbon nitride hybrid nanosheet composites for high performance supercapacitor electrodes. 2017 , 706, 41-47		66
967	Low-cost counter electrodes based on nitrogen-doped porous carbon nanorods for dye-sensitized solar cells. 2017 , 63, 190-195		14
966	Fabrication of flexible nanoporous nitrogen-doped graphene film for high-performance supercapacitors. 2017 , 21, 1653-1663		19
965	Poly(ionic liquid)-derived, N, S-codoped ultramicroporous carbon nanoparticles for supercapacitors. <i>Chemical Engineering Journal</i> , 2017 , 317, 651-659	14.7	103
964	Cyclomatrix polyphosphazenes frameworks (Cyclo-POPs) and the related nanomaterials: Synthesis, assembly and functionalisation. 2017 , 11, 38-60		35
963	H ₂ -rich gases production from Catalytic Decomposition of Biogas: Viability of the process associated to the co-production of carbon nanofibers. 2017 , 42, 23484-23493		5
962	Dendritic unzipped carbon nanofibers enable uniform loading of surfactant-free Pd nanoparticles for the electroanalysis of small biomolecules. 2017 , 5, 2254-2262		2

961	Flower-like hierarchical porous nitrogen-doped carbon spheres from a facile one-step carbonization method for supercapacitors. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 9301-9308	2.1	8
960	Template-free synthesis of N-doped carbon with pillared-layered pores as bifunctional materials for supercapacitor and environmental applications. 2017 , 118, 98-105		85
959	One-step hydrothermal synthesis of nitrogen doping graphene based cobalt oxide and its supercapacitive properties. 2017 , 705, 801-805		22
958	Excellent electrochemical properties and large CO ₂ capture of nitrogen-doped activated porous carbon synthesised from waste longan shells. <i>Electrochimica Acta</i> , 2017 , 231, 403-411	6.7	75
957	One-pot synthesis of rice-like TiO ₂ /graphene hydrogels as advanced electrodes for supercapacitors and the resulting aerogels as high-efficiency dye adsorbents. <i>Electrochimica Acta</i> , 2017 , 229, 239-252	6.7	52
956	Nitrogen-Enriched Porous Carbon Nanofiber Mat as Efficient Flexible Electrode Material for Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 2109-2118	8.3	49
955	Polyaniline silver nanoparticle coffee waste extracted porous graphene oxide nanocomposite structures as novel electrode material for rechargeable batteries. 2017 , 4, 035501		12
954	Creating Nitrogen-Doped Hollow Carbon as High Performance Electrodes for Flow-Through Deionization Capacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 3329-3338	8.3	63
953	Low-cost and massive preparation of nitrogen-doped porous carbon for supercapacitor application. <i>RSC Advances</i> , 2017 , 7, 10901-10905	3.7	18
952	Multiscale Pore Network Boosts Capacitance of Carbon Electrodes for Ultrafast Charging. 2017 , 17, 3097-3104	206	
951	High Performance Asymmetric Supercapacitors Based on Dual Phosphorus (P) and Nitrogen (N) co-Doped Carbon and Graphene-Polyaniline Electrodes. <i>ECS Journal of Solid State Science and Technology</i> , 2017 , 6, M3168-M3172	2	7
950	Doped porous carbon nanostructures as non-precious metal catalysts prepared by amino acid glycine for oxygen reduction reaction. 2017 , 211, 235-244		44
949	ZIF-derived nitrogen-doped porous carbons as highly efficient adsorbents for removal of organic compounds from wastewater. <i>Chemical Engineering Journal</i> , 2017 , 323, 502-511	14.7	106
948	Three-dimensional polypyrrole-derived carbon nanotube framework for dye adsorption and electrochemical supercapacitor. <i>Applied Surface Science</i> , 2017 , 414, 218-223	6.7	54
947	In Situ Expanding Pores of Dodecahedron-like Carbon Frameworks Derived from MOFs for Enhanced Capacitive Deionization. 2017 , 9, 15068-15078		105
946	Conjugated Microporous Polycarbazole Networks as Precursors for Nitrogen-Enriched Microporous Carbons for CO ₂ Storage and Electrochemical Capacitors. 2017 , 29, 4885-4893		109
945	Boosting Supercapacitor Performance of TiO ₂ Nanobelts by Efficient Nitrogen Doping. 2017 , 4, 2328-2335		9
944	Stepwise Crosslinking: A Facile Yet Versatile Conceptual Strategy to Nanomorphology-Persistent Porous Organic Polymers. 2017 , 29, 1700723		40

943	Mild-temperature hydrodeoxygenation of vanillin over porous nitrogen-doped carbon black supported nickel nanoparticles. 2017 , 19, 3126-3134		102
942	The carbonization temperature effect on the electrochemical performance of nitrogen-doped carbon monoliths. <i>Electrochimica Acta</i> , 2017 , 242, 100-106	6.7	40
941	A Fe ₃ O ₄ /carbon nanofiber/gold nanoparticle hybrid for enzymatic biofuel cells with larger power output. 2017 , 5, 11026-11031		15
940	Multifunctional bio carbon: a coir pith waste derived electrode for extensive energy storage device applications. <i>RSC Advances</i> , 2017 , 7, 23663-23670	3.7	19
939	Submicron silicon encapsulated with graphene and carbon as a scalable anode for lithium-ion batteries. 2017 , 119, 438-445		43
938	Nanosized core-shell structured graphene/MnO ₂ nanosheet arrays as stable electrodes for superior supercapacitors. 2017 , 5, 10678-10686		43
937	Rational construction the composite of graphene and hierarchical structure assembled by Fe ₂ O ₃ nanosheets for lithium storage. <i>Electrochimica Acta</i> , 2017 , 243, 18-25	6.7	35
936	Interconnected open-channel carbon nanosheets derived from pineapple leaf fiber as a sustainable active material for supercapacitors. <i>Industrial Crops and Products</i> , 2017 , 104, 13-20	5.9	53
935	Promising carbon nanosheet-based supercapacitor electrode materials from low-grade coals. 2017 , 253, 80-90		26
934	The fabrication and application of magnetite coated N-doped carbon microtubes hybrid nanomaterials with sandwich structures. 2017 , 46, 9172-9179		23
933	Rapid synthesis of self-supported three-dimensional bubble-like graphene frameworks as high-performance electrodes for supercapacitors. 2017 , 1, 1557-1567		20
932	Hierarchical CuO octahedra inherited from copper metal-organic frameworks: high-rate and high-capacity lithium-ion storage materials stimulated by pseudocapacitance. 2017 , 5, 12828-12837		61
931	Benzoate Acid-Dependent Lattice Dimension of Co-MOFs and MOF-Derived CoS@CNTs with Tunable Pore Diameters for Supercapacitors. 2017 , 56, 6184-6196		89
930	Hierarchical Porous Graphene/Ni Foam Composite with High Performances in Energy Storage Prepared by Flame Reduction of Graphene Oxide. 2017 , 4, 2243-2249		9
929	Synthesis of layered microporous carbons from coal tar by directing, space-confinement and self-sacrificed template strategy for supercapacitors. <i>Electrochimica Acta</i> , 2017 , 246, 634-642	6.7	42
928	Mussel-Inspired, Biomimetics-Assisted Self-Assembly of Co ₃ O ₄ on Carbon Fibers for Flexible Supercapacitors. 2017 , 4, 2269-2277		17
927	Electrospun CoCr ₇ C ₃ -supported C nanofibers: Effective, durable, and chemically stable catalyst for H ₂ gas generation from ammonia borane. 2017 , 434, 32-38		19
926	Biomass based nitrogen-doped structure-tunable versatile porous carbon materials. 2017 , 5, 12958-12968		100

925	Preparation and dispersity of carbon nanospheres by carbonizing polyacrylonitrile microspheres. <i>RSC Advances</i> , 2017 , 7, 16341-16347	3.7	6
924	Unrivaled combination of surface area and pore volume in micelle-templated carbon for supercapacitor energy storage. 2017 , 5, 13511-13525		51
923	Electrochemical performance of Bi ₂ O ₂ CO ₃ nanosheets as negative electrode material for supercapacitors. 2017 , 43, 9310-9316		12
922	Balanced mesoporous nickel cobaltite-graphene and doped carbon electrodes for high-performance asymmetric supercapacitor. <i>Chemical Engineering Journal</i> , 2017 , 326, 401-410	14.7	26
921	Porous nitrogen-doped carbon derived from biomass for electrocatalytic reduction of CO ₂ to CO. <i>Electrochimica Acta</i> , 2017 , 245, 561-568	6.7	49
920	Impact of binder concentration and pressure on performance of symmetric CNFs based supercapacitors. <i>Electrochimica Acta</i> , 2017 , 245, 531-538	6.7	12
919	Nitrogen and Sulfur Co-Doped Glucose-Based Porous Carbon Materials with Excellent Electrochemical Performance for Supercapacitors. 2017 , 164, A1601-A1607		11
918	Nitrogen/sulfur co-doping assisted chemical activation for synthesis of hierarchical porous carbon as an efficient electrode material for supercapacitors. <i>Electrochimica Acta</i> , 2017 , 246, 59-67	6.7	38
917	Supercapacitance of nitrogen-sulfur-oxygen co-doped 3D hierarchical porous carbon in aqueous and organic electrolyte. 2017 , 359, 556-567		91
916	Highly nitrogen and sulfur dual-doped carbon microspheres for supercapacitors. 2017 , 62, 1011-1017		35
915	Electrode and electrolyte materials for electrochemical capacitors. 2017 , 42, 25565-25587		63
914	Nitrogen and oxygen dual-doped carbon nanohorn for electrochemical capacitors. 2017 , 118, 511-516		40
913	Biomass derived porous nitrogen doped carbon for electrochemical devices. 2017 , 2, 84-99		106
912	Nanocellulose-based conductive materials and their emerging applications in energy devices - A review. 2017 , 35, 299-320		264
911	Spontaneous Weaving of Graphitic Carbon Networks Synthesized by Pyrolysis of ZIF-67 Crystals. 2017 , 129, 8555-8560		31
910	Spontaneous Weaving of Graphitic Carbon Networks Synthesized by Pyrolysis of ZIF-67 Crystals. 2017 , 56, 8435-8440		275
909	Pd ₃ Cu coupling with nitrogen-doped mesoporous carbon to boost performance in glycerol oxidation. 2017 , 538, 123-130		25
908	Highly Nitrogen-Doped Porous Carbon Obtained Using Nicotinic Acid by a Template Carbonization Approach for Supercapacitors. 2017 , 12, 1750038		3

907	Functional porous carbon nanospheres from sustainable precursors for high performance supercapacitors. 2017 , 5, 16263-16272		44
906	Designed formation of hollow particle-based nitrogen-doped carbon nanofibers for high-performance supercapacitors. 2017 , 10, 1777-1783		654
905	Flexible and Binder-Free Hierarchical Porous Carbon Film for Supercapacitor Electrodes Derived from MOFs/CNT. 2017 , 9, 14043-14050		117
904	Porous Functionalized Self-Standing Carbon Fiber Paper Electrodes for High-Performance Capacitive Energy Storage. 2017 , 9, 13173-13180		27
903	Remarkable supercapacitor performance of petal-like LDHs vertically grown on graphene/polypyrrole nanoflakes. 2017 , 5, 8964-8971		41
902	Crab Chitin-Based 2D Soft Nanomaterials for Fully Biobased Electric Devices. 2017 , 29, 1606895		88
901	Robust ambient pressure dried polyimide aerogels and their graphene oxide directed growth of 1D/2D nanohybrid aerogels using water as the only solvent. <i>RSC Advances</i> , 2017 , 7, 16210-16216	3-7	7
900	New insights on laser-induced graphene electrodes for flexible supercapacitors: tunable morphology and physical properties. 2017 , 28, 174002		58
899	Heteroatom-doped multilocular carbon nanospheres with high surface utilization and excellent rate capability as electrode material for supercapacitors. <i>Electrochimica Acta</i> , 2017 , 236, 53-60	6-7	25
898	MnO ₂ -introduced-tunnels strategy for the preparation of nanotunnel inserted hierarchical-porous carbon as electrode material for high-performance supercapacitors. <i>Chemical Engineering Journal</i> , 2017 , 320, 634-643	14-7	26
897	N-Doped hierarchical porous carbon from waste boat-fruited sterculia seed for high performance supercapacitors. <i>RSC Advances</i> , 2017 , 7, 16678-16687	3-7	39
896	Combined Optoelectronic and Electrochemical Study of Nitrogenated Carbon Electrodes. 2017 , 121, 6596-6604		16
895	Solvothermal synthesis of cobalt/nickel layered double hydroxides for energy storage devices. 2017 , 695, 3522-3529		44
894	Enhanced Structural Stability of Nickel-Cobalt Hydroxide via Intrinsic Pillar Effect of Metaborate for High-Power and Long-Life Supercapacitor Electrodes. 2017 , 17, 429-436		196
893	Hollow carbon nanospheres using an asymmetric triblock copolymer structure directing agent. 2016 , 53, 236-239		33
892	Boron and nitrogen co-doped porous carbon with a high concentration of boron and its superior capacitive behavior. 2017 , 113, 266-273		110
891	Template-directed synthesis of nitrogen- and sulfur-codoped carbon nanowire aerogels with enhanced electrocatalytic performance for oxygen reduction. 2017 , 10, 1888-1895		23
890	Polypyrrole composites with carbon materials for supercapacitors. 2017 , 71, 293-316		30

889	Molybdenum carbide nanoparticles embedded in nitrogen-doped porous carbon nanofibers as a dual catalyst for hydrogen evolution and oxygen reduction reactions. 2017 , 114, 628-634		83
888	Oxygen and nitrogen co-doped porous carbon nanosheets derived from <i>Perilla frutescens</i> for high volumetric performance supercapacitors. 2017 , 341, 309-317		302
887	Nitrogen-doped reduced graphene oxide as electrode material for high rate supercapacitors. <i>Applied Surface Science</i> , 2017 , 399, 265-271	6.7	71
886	Improved capacitance of nitrogen-doped delaminated two-dimensional titanium carbide by urea-assisted synthesis. <i>Electrochimica Acta</i> , 2017 , 225, 416-424	6.7	91
885	Facile approach for synthesis of doped carbon electrocatalyst from cellulose nanofibrils toward high-performance metal-free oxygen reduction and hydrogen evolution. 2017 , 32, 336-346		100
884	Ferric citrate-derived N-doped hierarchical porous carbons for oxygen reduction reaction and electrochemical supercapacitors. 2017 , 115, 1-10		83
883	Ultrafine Co-based Nanoparticle@Mesoporous Carbon Nanospheres toward High-Performance Supercapacitors. 2017 , 9, 1746-1758		56
882	Pine needle-derived microporous nitrogen-doped carbon frameworks exhibit high performances in electrocatalytic hydrogen evolution reaction and supercapacitors. <i>Nanoscale</i> , 2017 , 9, 1237-1243	7.7	121
881	Metal-Organic Coordination Polymer to Prepare Density Controllable and High Nitrogen-Doped Content Carbon/Graphene for High Performance Supercapacitors. 2017 , 9, 317-326		26
880	Facile preparation of nanoflake-structured nickel oxide/carbon nanotube composite films by electrophoretic deposition as binder-free electrodes for high-performance pseudocapacitors. 2017 , 17, 240-248		17
879	Co embedded within biomass-derived mesoporous N-doped carbon as an acid-resistant and chemoselective catalyst for transfer hydrodeoxygenation of biomass with formic acid. 2017 , 19, 5714-5722		79
878	Synthesis of Ni/Co/Al-layered triple hydroxide@brominated graphene hybrid on nickel foam as electrode material for high-performance supercapacitors. <i>RSC Advances</i> , 2017 , 7, 46553-46565	3.7	26
877	Cocoon derived nitrogen enriched activated carbon fiber networks for capacitive deionization. <i>Journal of Electroanalytical Chemistry</i> , 2017 , 804, 179-184	4.1	33
876	Highly N-doped microporous carbon nanospheres with high energy storage and conversion efficiency. <i>Scientific Reports</i> , 2017 , 7, 14400	4.9	18
875	Eco-friendly fabricated nonporous carbon nanofibers with high volumetric capacitance: improving rate performance by tri-dopants of nitrogen, phosphorus, and silicon. <i>Inorganic Chemistry Frontiers</i> , 2017 , 4, 2024-2032	6.8	18
874	Boosting the Specific Surface Area of Hierarchical Porous Carbon Aerogel through the Multiple Roles of the Catalyst for High-Performance Supercapacitors. 2017 , 4, 3119-3125		13
873	Two-Dimensional Carbon Nanosheets for High-Performance Supercapacitors: Large-Scale Synthesis and Codoping with Nitrogen and Phosphorus. 2017 , 56, 12344-12353		19
872	On site formation of N-doped carbon nanofibers, an efficient electrocatalyst for fuel cell applications. 2017 , 42, 30339-30348		10

871	In situ nitrogen-doped mesoporous carbon nanofibers as flexible freestanding electrodes for high-performance supercapacitors. 2017 , 5, 23620-23627		76
870	Influence of nitrogen-doping in carbon on equivalent distributed resistance and capacitance □ Implications to electrocatalysis of oxygen reduction reaction. <i>Journal of Electroanalytical Chemistry</i> , 2017 , 805, 184-192	4.1	41
869	Electrospun carbon nanofibers containing Co-TiC nanoparticles-like superficial protrusions as a catalyst for H ₂ gas production from ammonia borane complex. 2017 , 43, 15735-15742		15
868	N-Doped Porous Carbon Nanofibers/Porous Silver Network Hybrid for High-Rate Supercapacitor Electrode. 2017 , 9, 30832-30839		42
867	Nitrogen and oxygen-codoped carbon nanospheres for excellent specific capacitance and cyclic stability supercapacitor electrodes. <i>Chemical Engineering Journal</i> , 2017 , 330, 1166-1173	14.7	80
866	Macroscopic-Scale Three-Dimensional Carbon Nanofiber Architectures for Electrochemical Energy Storage Devices. 2017 , 7, 1700826		109
865	Highly Microporous Nitrogen-doped Carbon Synthesized from Azine-linked Covalent Organic Framework and its Supercapacitor Function. 2017 , 23, 17504-17510		50
864	Activated Carbon Monolith Derived from <i>Amygdalus Pedunculata</i> Shell and Polyacrylonitrile for Supercapacitors. 2017 , 90, 1333-1336		8
863	Fabrication of Hierarchical Porous Carbon Nanoflakes for High-Performance Supercapacitors. 2017 , 9, 34944-34953		57
862	Urine to highly porous heteroatom-doped carbons for supercapacitor: A value added journey for human waste. <i>Scientific Reports</i> , 2017 , 7, 10910	4.9	44
861	Protonated g-C ₃ N ₄ @polypyrrole derived N-doped porous carbon for supercapacitors and oxygen electrocatalysis. 2017 , 124, 599-610		66
860	Composites of hierarchical metal-organic framework derived nitrogen-doped porous carbon and interpenetrating 3D hollow carbon spheres from lotus pollen for high-performance supercapacitors. <i>New Journal of Chemistry</i> , 2017 , 41, 12835-12842	3.6	15
859	Facile Fabrication of Urchin-like Polyaniline Microspheres for Electrochemical Energy Storage. <i>Electrochimica Acta</i> , 2017 , 254, 25-35	6.7	27
858	Heteroatom functionalized activated porous biocarbons and their excellent performance for CO ₂ capture at high pressure. 2017 , 5, 21196-21204		63
857	Fabrication of N-doped and shape-controlled porous monolithic carbons from polyacrylonitrile for supercapacitors. <i>RSC Advances</i> , 2017 , 7, 43172-43180	3.7	13
856	Facile and controllable synthesis of N/P co-doped graphene for high-performance supercapacitors. 2017 , 365, 380-388		75
855	Recent advances in chemical methods for activating carbon and metal oxide based electrodes for supercapacitors. 2017 , 5, 17151-17173		110
854	Hierarchical Hybrids Integrated by Dual Polypyrrole-Based Porous Carbons for Enhanced Capacitive Performance. 2017 , 23, 13474-13481		24

853	Design and preparation of porous carbons from conjugated polymer precursors. 2017 , 20, 629-656		111
852	Sonication-assisted deposition-precipitation synthesis of graphitic C ₃ N ₄ /BiOCl heterostructured photocatalysts with enhanced rhodamine B photodegradation activity. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 15861-15869	2.1	9
851	Anchovy-derived nitrogen and sulfur co-doped porous carbon materials for high-performance supercapacitors and dye-sensitized solar cells. <i>RSC Advances</i> , 2017 , 7, 35565-35574	3.7	22
850	Bio-Nanotechnology in High-Performance Supercapacitors. 2017 , 7, 1700592		126
849	Hierarchical metal-organic framework derived nitrogen-doped porous carbon/graphene composite for high performance supercapacitors. <i>Electrochimica Acta</i> , 2017 , 248, 215-224	6.7	34
848	Hierarchical CoMn-layered double hydroxide nanowires on nickel foam as electrode material for high-capacitance supercapacitor. 2017 , 729, 866-873		38
847	A facile template approach to nitrogen-doped hierarchical porous carbon nanospheres from polydopamine for high-performance supercapacitors. 2017 , 5, 18242-18252		91
846	N- and O-doped hollow carbonaceous spheres with hierarchical porous structure for potential application in high-performance capacitance. 2017 , 363, 356-364		37
845	Investigation on electrochemical behaviors of NiCo ₂ O ₄ battery-type supercapacitor electrodes: the role of an aqueous electrolyte. <i>Inorganic Chemistry Frontiers</i> , 2017 , 4, 1642-1648	6.8	112
844	Balancing the electrical double layer capacitance and pseudocapacitance of hetero-atom doped carbon. <i>Nanoscale</i> , 2017 , 9, 13119-13127	7.7	75
843	Highly Nitrogen-Doped Three-Dimensional Carbon Fibers Network with Superior Sodium Storage Capacity. 2017 , 9, 28604-28611		33
842	Morphochemical imprinting of melamine cyanurate mesocrystals in glucose-derived carbon for high performance lithium ion batteries. 2017 , 5, 20635-20642		23
841	Strontium doped lanthanum manganite (LSM) effects on electrochemical performance of LSM/MnO ₂ composites for supercapacitor. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 17020-17025	2.1	7
840	High-frequency electrochemical capacitors based on plasma pyrolyzed bacterial cellulose aerogel for current ripple filtering and pulse energy storage. 2017 , 40, 107-114		61
839	EMnO ₂ nanofiber/single-walled carbon nanotube hybrid film for all-solid-state flexible supercapacitors with high performance. 2017 , 5, 19107-19115		38
838	Nitrogen-doped two-dimensional porous carbon sheets derived from clover biomass for high performance supercapacitors. 2017 , 363, 375-383		130
837	Polydopamine-filled bacterial nanocellulose as a biodegradable interfacial photothermal evaporator for highly efficient solar steam generation. 2017 , 5, 18397-18402		173
836	Template-free synthesis of nitrogen doped carbon materials from an organic ionic dye (murexide) for supercapacitor application. <i>RSC Advances</i> , 2017 , 7, 54626-54637	3.7	11

835	Generalized Synthesis of a Family of Highly Heteroatom-Doped Ordered Mesoporous Carbons. 2017 , 29, 10178-10186		46
834	Analysis of graphene-like activated carbon derived from rice straw for application in supercapacitor. 2017 , 28, 2290-2294		35
833	Hierarchical porous carbon with network morphology derived from natural leaf for superior aqueous symmetrical supercapacitors. <i>Electrochimica Acta</i> , 2017 , 258, 504-511	6.7	43
832	Surface-coating synthesis of nitrogen-doped inverse opal carbon materials with ultrathin micro/mesoporous graphene-like walls for oxygen reduction and supercapacitors. 2017 , 5, 25237-25248		26
831	Macropore- and Micropore-Dominated Carbon Derived from Poly(vinyl alcohol) and Polyvinylpyrrolidone for Supercapacitor and Capacitive Deionization. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 11324-11333	8.3	42
830	Electrocapacitive properties of nitrogen-containing porous carbon derived from cellulose. 2017 , 360, 634-641		27
829	High-Performance Li-Se Batteries Enabled by Selenium Storage in Bottom-Up Synthesized Nitrogen-Doped Carbon Scaffolds. 2017 , 9, 25232-25238		33
828	Oxygen and nitrogen co-doped porous carbons with finely-layered schistose structure for high-rate-performance supercapacitors. 2017 , 122, 538-546		73
827	Nitrogen doped and hierarchically porous carbons derived from chitosan hydrogel via rapid microwave carbonization for high-performance supercapacitors. 2017 , 122, 592-603		82
826	Single-Step Synthesis of N-Doped Three-Dimensional Graphitic Foams for High-Performance Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 6950-6957	8.3	39
825	Bio-Derived Hierarchical 3D Architecture from Seeds for Supercapacitor Application. 2017 , 69, 1513-1518		4
824	A facile approach for graphdiyne preparation under atmosphere for an advanced battery anode. 2017 , 53, 8074-8077		93
823	Graphene-based materials for capacitive deionization. 2017 , 5, 13907-13943		189
822	Transition Metal Ions Enable the Transition from Electrospun Prolamin Protein Fibers to Nitrogen-Doped Freestanding Carbon Films for Flexible Supercapacitors. 2017 , 9, 23731-23740		9
821	Facile synthesis of nitrogen-doped porous carbons for CO ₂ capture and supercapacitors. 2017 , 52, 10308-10320		8
820	Nitrogen-Doped Hollow Mesoporous Carbon Spheres for Efficient Water Desalination by Capacitive Deionization. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 6635-6644	8.3	111
819	Synthesis of uniform discrete cage-like nitrogen-doped hollow porous carbon spheres with tunable direct large mesoporous for ultrahigh supercapacitive performance. <i>Applied Surface Science</i> , 2017 , 425, 69-76	6.7	25
818	N-doped porous reduced graphene oxide as an efficient electrode material for high performance flexible solid-state supercapacitor. 2017 , 8, 141-149		55

8 ₁₇	Cotton fabric derived hierarchically porous carbon and nitrogen doping for sustainable capacitor electrode. 2017 , 111, 839-848		113
8 ₁₆	Biotemplated synthesis of three-dimensional porous MnO/C-N nanocomposites from renewable rapeseed pollen: An anode material for lithium-ion batteries. 2017 , 10, 1-11		191
8 ₁₅	Nano Metal-Organic Framework-Derived Inorganic Hybrid Nanomaterials: Synthetic Strategies and Applications. 2017 , 23, 5631-5651		80
8 ₁₄	Mesoporous carbon/sulfur composite with N-doping and tunable pore size for high-performance Li-S batteries. 2017 , 21, 1101-1109		8
8 ₁₃	Boron-doped nanoporous carbons as promising materials for supercapacitors and hydrogen storage. 2017 , 52, 1523-1533		19
8 ₁₂	A facile one-step synthesis of Mn ₃ O ₄ nanoparticles-decorated TiO ₂ nanotube arrays as high performance electrode for supercapacitors. 2017 , 246, 269-277		19
8 ₁₁	Novel Hybrid Nanoparticles of Vanadium Nitride/Porous Carbon as an Anode Material for Symmetrical Supercapacitor. 2017 , 9, 6		80
8 ₁₀	Random alloy nanoparticles of Pd and Au immobilized on reducible metal oxides and their catalytic investigation. 2017 , 203, 505-514		18
8 ₀₉	High performance aqueous supercapacitor based on highly nitrogen-doped carbon nanospheres with unimodal mesoporosity. 2017 , 337, 189-196		86
8 ₀₈	Porous carbons derived from pyrene-based conjugated microporous polymer for supercapacitors. 2017 , 240, 73-79		26
8 ₀₇	Carbon electrode materials for supercapacitors obtained by co-carbonization of coal-tar pitch and sawdust. 2017 , 52, 760-769		26
8 ₀₆	Effects of CNT-film Pretreatment on the Characteristics of NiCo ₂ O ₄ /CNT Core-shell Hybrids as Electrode Material for Electrochemistry Capacitor. <i>Electroanalysis</i> , 2017 , 29, 778-786	3	7
8 ₀₅	Hierarchical graphene network sandwiched by a thin carbon layer for capacitive energy storage. 2017 , 113, 100-107		36
8 ₀₄	Significance of optimal N-doping in mesoporous carbon framework to achieve high specific capacitance. <i>Applied Surface Science</i> , 2017 , 418, 40-48	6.7	31
8 ₀₃	Rational design of carbon shell endows TiN@C nanotube based fiber supercapacitors with significantly enhanced mechanical stability and electrochemical performance. 2017 , 31, 432-440		95
8 ₀₂	Chemical blowing strategy synthesis of nitrogen-rich porous graphitized carbon nanosheets: Morphology, pore structure and supercapacitor application. <i>Chemical Engineering Journal</i> , 2017 , 312, 191-203	14.7	78
8 ₀₁	Fabrication of nitrogen and sulfur co-doped graphene nanoribbons with porous architecture for high-performance supercapacitors. <i>Chemical Engineering Journal</i> , 2017 , 312, 180-190	14.7	96
8 ₀₀	The effect of nitrogen and/or boron doping on the electrochemical performance of non-caking coal-derived activated carbons for use as supercapacitor electrodes. 2017 , 32, 442-450		26

799	Synthesis of conducting polymer/carbon material composites and their application in electrical energy storage. 2017 , 173-209		18
798	Nitrogen Doped Macroporous Carbon as Electrode Materials for High Capacity of Supercapacitor. <i>Polymers</i> , 2017 , 9,	4.5	30
797	Ni(OH) ₂ Aerogels Incorporated with Polypyrrole as Electrodes for Supercapacitors. 2017 , 46, 5232-5239		9
796	Catalytically Active Bacterial Nanocellulose-Based Ultrafiltration Membrane. 2018 , 14, e1704006		45
795	Stability and Reactivity: Positive and Negative Aspects for Nanoparticle Processing. 2018 , 118, 3209-3250		173
794	Facile synthesis of microporous sulfur-doped carbon spheres as electrodes for ultrasensitive detection of ascorbic acid in food and pharmaceutical products. <i>New Journal of Chemistry</i> , 2018 , 42, 5037-5044 ⁵⁶	3.6	56
793	A dyeing-induced heteroatom-co-doped route toward flexible carbon electrode derived from silk fabric. 2018 , 53, 7735-7743		14
792	Activated polypyrrole-derived carbon spheres for superior CO ₂ uptake at ambient conditions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018 , 549, 147-154	5.1	16
791	Intrinsically microporous polymer-based hierarchical nanostructuring of electrodes via nonsolvent-induced phase separation for high-performance supercapacitors. 2018 , 6, 8909-8915		15
790	Performance of Partially Exfoliated Nitrogen-Doped Carbon Nanotubes Wrapped with Hierarchical Porous Carbon in Electrolytes. 2018 , 11, 1664-1677		17
789	Biomass-Based Nitrogen-Doped Hollow Carbon Nanospheres Derived Directly from Glucose and Glucosamine: Structural Evolution and Supercapacitor Properties. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 7380-7389	8.3	45
788	Design of graphitic carbon nitride nanowires with captured mesoporous carbon spheres for EDLC electrode materials. 2018 , 24, 3957-3965		15
787	Confined Assembly of Hollow Carbon Spheres in Carbonaceous Nanotube: A Spheres-in-Tube Carbon Nanostructure with Hierarchical Porosity for High-Performance Supercapacitor. 2018 , 14, e1704015		50
786	The effects of melamine on the formation of carbon xerogel derived from resorcinol and formaldehyde and its performance for supercapacitor. <i>Journal of Colloid and Interface Science</i> , 2018 , 524, 209-218	9.3	19
785	Rapid Synthesis of 3D Porous Nitrogen-Doped Carbon Nanospheres (N-CNSs) and Carbon Nanoboxes (CNBs) for Supercapacitor Electrodes. 2018 , 165, A918-A923		2
784	Boron/Nitrogen/Oxygen Co-Doped Carbon with High Volumetric Performance for Aqueous Symmetric Supercapacitors. 2018 , 165, A856-A866		13
783	An unusual low-surface-area nitrogen doped carbon for ultrahigh gravimetric and volumetric capacitances. 2018 , 6, 8868-8873		14
782	Polystyrene activated linear tube carbon nanofiber for durable and high-performance supercapacitors. 2018 , 345, 113-122		26

781	Novel polyaniline/manganese hexacyanoferrate nanoparticles on carbon fiber as binder-free electrode for flexible supercapacitors. 2018 , 143, 141-147		49
780	CaTiO ₃ perovskite in the framework of activated carbon and its effect on enhanced electrochemical capacitance. <i>Electrochimica Acta</i> , 2018 , 268, 73-81	6.7	21
779	Hierarchically porous carbon derived from biomass: Effect of mesopore and heteroatom-doping on electrochemical performance. <i>Applied Surface Science</i> , 2018 , 460, 8-16	6.7	38
778	Nitrogen doped carbon derived from polyimide/multiwall carbon nanotube composites for high performance flexible all-solid-state supercapacitors. 2018 , 380, 55-63		42
777	Green Synthesis of Hierarchically Porous Carbon Nanotubes as Advanced Materials for High-Efficient Energy Storage. 2018 , 14, e1703950		71
776	Influence of phosphorus doping on surface chemistry and capacitive behaviors of porous carbon electrode. <i>Electrochimica Acta</i> , 2018 , 266, 420-430	6.7	63
775	Nitrogen-incorporated carbon nanotube derived from polystyrene and polypyrrole as hydrogen storage material. 2018 , 43, 5077-5088		52
774	Facile synthesis of nitrogen-doped porous carbon as robust electrode for supercapacitors. 2018 , 101, 140-145		13
773	Pyridinic-nitrogen highly doped nanotubular carbon arrays grown on a carbon cloth for high-performance and flexible supercapacitors. <i>Nanoscale</i> , 2018 , 10, 3981-3989	7.7	22
772	Recent advances in three-dimensional graphene based materials for catalysis applications. 2018 , 47, 2165-2216		326
771	Tunable Synthesis of Colorful Nitrogen-Doped Titanium Oxide and Its Application in Energy Storage. 2018 , 1, 876-882		16
770	Nitrogen-containing novolac-derived carbon beads as electrode material for supercapacitors. 2018 , 132, 220-231		55
769	Phosphorus-assisted solid-phase approach to three-dimensional highly porous graphene sheets and their capacitance properties. 2018 , 132, 8-15		11
768	Dodecylamine-Induced Synthesis of a Nitrogen-Doped Carbon Comb for Advanced Lithium Sulfur Battery Cathodes. 2018 , 5, 1701659		20
767	Spray drying assisted synthesis of porous carbons from whey powders for capacitive energy storage. 2018 , 147, 308-316		13
766	Super-hierarchical porous carbons derived from mixed biomass wastes by a stepwise removal strategy for high-performance supercapacitors. 2018 , 377, 151-160		126
765	Nitrogen-doped carbon spider webs derived from pyrolysis of polyaniline nanofibers in ammonia for capacitive energy storage. 2018 , 33, 1109-1119		10
764	Nanocasting in ball mills combining ultra-hydrophilicity and ordered mesoporosity in carbon materials. 2018 , 6, 859-865		22

763	Direct chitin conversion to N-doped amorphous carbon nanofibers for high-performing full sodium-ion batteries. 2018 , 45, 220-228		134
762	85 MeV C6+ swift heavy ion irradiation of in-situ reduced graphene oxide/polypyrrole nanotubes nanocomposite films for supercapacitor electrodes. <i>Electrochimica Acta</i> , 2018 , 261, 1-13	6.7	8
761	Hierarchical metal-organic framework derived nitrogen-doped porous carbon by controllable synthesis for high performance supercapacitors. <i>Journal of Electroanalytical Chemistry</i> , 2018 , 813, 200-207	4.1	20
760	Chemically Exfoliating Biomass into a Graphene-like Porous Active Carbon with Rational Pore Structure, Good Conductivity, and Large Surface Area for High-Performance Supercapacitors. 2018 , 8, 1702545		251
759	Recent progress of unconventional and multifunctional integrated supercapacitors. 2018 , 29, 564-570		17
758	Nitrogen and phosphorus co-doped carbon hollow spheres derived from polypyrrole for high-performance supercapacitor electrodes. <i>Applied Surface Science</i> , 2018 , 437, 169-175	6.7	56
757	Surface oxo-functionalized hard carbon spheres enabled superior high-rate capability and long-cycle stability for Li-ion storage. <i>Electrochimica Acta</i> , 2018 , 260, 430-438	6.7	14
756	The application of ZIF-67 and its derivatives: adsorption, separation, electrochemistry and catalysts. 2018 , 6, 1887-1899		248
755	Activated nitrogen-doped porous carbon ensemble on montmorillonite for high-performance supercapacitors. 2018 , 743, 44-51		19
754	Preparation of hierarchically porous carbon spheres by hydrothermal carbonization process for high-performance electrochemical capacitors. 2018 , 48, 233-241		21
753	Hierarchically porous nitrogen-doped carbon derived from the activation of agriculture waste by potassium hydroxide and urea for high-performance supercapacitors. 2018 , 378, 579-588		159
752	Enhanced electrochemical performances of agglomeration-free LaMnO ₃ perovskite nanoparticles and achieving high energy and power densities with symmetric supercapacitor design. <i>Chemical Engineering Journal</i> , 2018 , 338, 147-156	14.7	50
751	Polymer nanosheets derived porous carbon nanosheets as high efficient electrocatalysts for oxygen reduction reaction. <i>Journal of Colloid and Interface Science</i> , 2018 , 516, 9-15	9.3	10
750	Nitrogen-Doped Porous Carbons Derived from Polypyrrole-Based Aerogels for Gas Uptake and Supercapacitors. <i>ACS Applied Nano Materials</i> , 2018 , 1, 609-616	5.6	36
749	Observation of High Capacitance from Molecular Gd@C ₈₂ in Aqueous Electrolyte Derived from Energy-Level Matching with Proton. 2018 , 5, 1800240		3
748	Nitrogen and Sulfur Self-Doped Activated Carbon Directly Derived from Elm Flower for High-Performance Supercapacitors. 2018 , 3, 4724-4732		58
747	Nitrogen-doped graphitic hierarchically porous carbon nanofibers obtained via bimetallic-coordination organic framework modification and their application in supercapacitors. 2018 , 47, 7316-7326		25
746	Heteroatom-doped porous carbons derived from moxa floss of different storage years for supercapacitors.. <i>RSC Advances</i> , 2018 , 8, 16433-16443	3.7	3

745	Negative electrode materials of molybdenum nitride/N-doped carbon nano-fiber via electrospinning method for high-performance supercapacitors. <i>Electrochimica Acta</i> , 2018 , 277, 41-49	6.7	42
744	Bioconcentration of organic dyes via fungal hyphae and their derived carbon fibers for supercapacitors. 2018 , 6, 10710-10717		47
743	Green Synthesis of Three-Dimensional MnO/Graphene Hydrogel Composites as a High-Performance Electrode Material for Supercapacitors. 2018 , 10, 16474-16481		104
742	Facile Preparation of Self-Standing Hierarchical Porous Nitrogen-Doped Carbon Fibers for Supercapacitors from Plant Protein-Lignin Electrospun Fibers. 2018 , 3, 4647-4656		20
741	Template-free synthesis of nitrogen-doped hierarchical porous carbon for supercapacitor electrodes. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 9673-9682	2.1	4
740	Highly nitrogen doped carbon nanofibers with superior rate capability and cyclability for potassium ion batteries. 2018 , 9, 1720		612
739	Melamine as a single source for fabrication of mesoscopic 3D composites of N-doped carbon nanotubes on graphene.. <i>RSC Advances</i> , 2018 , 8, 12157-12164	3.7	18
738	Nanosized graphitic carbon with balanced micro/mesoporosity for robust supercapacitor with superior volumetric capacitance and cyclic performance. <i>Electrochimica Acta</i> , 2018 , 271, 406-416	6.7	21
737	Nitrogen-rich hollow carbon spheres decorated with FeCo/fluorine-rich carbon for high performance symmetric supercapacitors. 2018 , 6, 7522-7531		25
736	Heteroatom-doped carbonaceous electrode materials for high performance energy storage devices. 2018 , 2, 1398-1429		48
735	Hierarchical porous carbon materials from nanosized metal-organic complex for high-performance symmetrical supercapacitor. <i>Electrochimica Acta</i> , 2018 , 269, 580-589	6.7	40
734	N-Doped hierarchically porous carbon derived from heterogeneous core-shell ZIF-L(Zn)@ZIF-67 for supercapacitor application. <i>New Journal of Chemistry</i> , 2018 , 42, 6719-6726	3.6	38
733	Large scale production of polyacrylonitrile-based porous carbon nanospheres for asymmetric supercapacitors. 2018 , 6, 6891-6903		18
732	High electrochemical capacitor performance of oxygen and nitrogen enriched activated carbon derived from the pyrolysis and activation of squid gladius chitin. 2018 , 386, 66-76		79
731	N/P co-doped hierarchical porous carbon materials for superior performance supercapacitors. <i>Electrochimica Acta</i> , 2018 , 271, 49-57	6.7	68
730	Self-assembled 3D N-CNFs/V2O5 aerogels with core/shell nanostructures through vacancies control and seeds growth as an outstanding supercapacitor electrode material. 2018 , 132, 667-677		49
729	Electrochemical capacitors using nitrogen-doped vertically aligned multi-walled carbon nanotube electrodes prepared by defluorination. 2018 , 132, 539-547		8
728	Hydrothermal Synthesis and Electrochemical Properties of CoS ₂ /Reduced Graphene Oxide Nanocomposite for Supercapacitor Application. 2018 , 17, 1760020		13

727	Mechanically robust and highly compressible electrochemical supercapacitors from nitrogen-doped carbon aerogels. 2018 , 127, 236-244		75
726	Electrospun mulberry-like hierarchical carbon fiber web for high-performance supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2018 , 512, 713-721	9.3	25
725	One-pot synthesis of nitrogen-doped ordered mesoporous carbon spheres for high-rate and long-cycle life supercapacitors. 2018 , 127, 85-92		278
724	Nitrogen-Enriched Carbon Nanofiber Aerogels Derived from Marine Chitin for Energy Storage and Environmental Remediation. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 177-185	8.3	62
723	MOF-derived N-doped carbon bubbles on carbon tube arrays for flexible high-rate supercapacitors. 2018 , 10, 75-84		118
722	Application of yolk-shell Fe ₃ O ₄ @N-doped carbon nanochains as highly effective microwave-absorption material. 2018 , 11, 1500-1519		216
721	Chestnut shell-like Li ₄ Ti ₅ O ₁₂ hollow spheres for high-performance aqueous asymmetric supercapacitors. <i>Chemical Engineering Journal</i> , 2018 , 332, 253-259	14.7	68
720	Preparation and one-step activation of nanoporous ultrafine carbon fibers derived from polyacrylonitrile/cellulose blend for used as supercapacitor electrode. 2018 , 53, 4527-4539		15
719	Activated carbon derived from chitosan as air cathode catalyst for high performance in microbial fuel cells. 2018 , 378, 1-9		45
718	Hierarchical porous nitrogen-doped carbon beads derived from biosourced chitosan polymer. 2018 , 263, 42-52		19
717	Amino acid-mediated N-doped graphene aerogels and its electrochemical properties. 2018 , 228, 198-205		21
716	Electrochemical capacitive energy storage in PolyHIPE derived nitrogen enriched hierarchical porous carbon nanosheets. 2018 , 128, 287-295		37
715	Porous carbon with interpenetrating framework from Osmanthus flower as electrode materials for high-performance supercapacitor. <i>Journal of Environmental Chemical Engineering</i> , 2018 , 6, 258-265	6.8	23
714	N-doped graphdiyne for high-performance electrochemical electrodes. 2018 , 44, 144-154		129
713	Extraordinary Porous Few-Layer Carbons of High Capacitance from Pechini Combustion of Magnesium Nitrate Gel. 2018 , 10, 381-388		9
712	One-step radiolytic synthesis of heteroatom (N and S) co-doped graphene for supercapacitors. <i>Electrochimica Acta</i> , 2018 , 259, 587-597	6.7	53
711	All-solid-state asymmetric supercapacitor based on N-doped activated carbon derived from polyvinylidene fluoride and ZnCo ₂ O ₄ nanosheet arrays. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 2120-2130	2.1	8
710	Solution synthesis of CuSb ₂ nanocrystals: A new approach to control shape and size. 2018 , 736, 190-201		12

709	Facile synthesis of nitrogen-containing porous carbon as electrode materials for superior-performance electrical double-layer capacitors. 2018 , 53, 2137-2148		14
708	Nanocrystalline celluloses-assisted preparation of hierarchical carbon monoliths for hexavalent chromium removal. <i>Journal of Colloid and Interface Science</i> , 2018 , 510, 77-85	9.3	20
707	Conducting Polymer Nanostructures and their Derivatives for Flexible Supercapacitors. 2018 , 58, 1299-1314		24
706	Nitrogen-doped micro-nano carbon spheres with multi-scale pore structure obtained from interpenetrating polymer networks for electrochemical capacitors.. <i>RSC Advances</i> , 2018 , 8, 35083-35093 ^{3.7}		3
705	Introducing catalytic gasification into chemical activation for the conversion of natural coal into hierarchically porous carbons with broadened pore size for enhanced supercapacitive utilization.. <i>RSC Advances</i> , 2018 , 8, 37880-37889	3.7	8
704	Bioresource derived porous carbon from cottonseed hull for removal of triclosan and electrochemical application.. <i>RSC Advances</i> , 2018 , 8, 42405-42414	3.7	11
703	Amphiphilic spherical nanoparticles with a nitrogen-enriched carbon-like surface by using Elactoglobulin as a template. 2018 , 54, 13204-13207		5
702	Potassium Dual-Ion Hybrid Batteries with Ultrahigh Rate Performance and Excellent Cycling Stability. 2018 , 10, 42294-42300		40
701	Dopamine Assisted One-Step Pyrolysis of Glucose for the Preparation of Porous Carbon with A High Surface Area. 2018 , 8,		7
700	In Situ Constructing Flexible V2O5@GO Composite Thin Film Electrode for Superior Electrochemical Energy Storage. 2018 , 165, A3738-A3747		15
699	Selection of Carbon Electrode Materials. 2018 , 65-83		6
698	N/P Codoped Porous Carbon-Coated Graphene Nanohybrid as a High-Performance Electrode for Supercapacitors. <i>ACS Applied Nano Materials</i> , 2018 , 1, 6742-6751	5.6	20
697	Biomass-derived Nitrogen and Phosphorus Co-doped Hierarchical Micro/mesoporous Carbon Materials for High-performance Non-enzymatic H2O2 Sensing. <i>Electroanalysis</i> , 2018 , 31, 527	3	5
696	Hierarchically Interconnected N-Doped Carbon Aerogels Derived from Cellulose Nanofibrils as High Performance and Stable Electrodes for Supercapacitors. 2018 , 122, 23852-23860		18
695	Synthesis of coaxial carbon@NiMoO composite nanofibers for supercapacitor electrodes.. <i>RSC Advances</i> , 2018 , 8, 32979-32984	3.7	14
694	Free-Standing Electrodes Derived from MetalOrganic Frameworks/ Nanofibers Hybrids for Membrane Capacitive Deionization. 2018 , 3, 1800135		22
693	Flexible Nitrogen-Doped 2D Titanium Carbides (MXene) Films Constructed by an Ex Situ Solvothermal Method with Extraordinary Volumetric Capacitance. 2018 , 8, 1802087		133
692	N-doped hierarchically micro- and mesoporous carbons with superior performance in supercapacitors. <i>Electrochimica Acta</i> , 2018 , 291, 103-113	6.7	32

691	Tuning the structure of three dimensional nanostructured molybdenum disulfide/nitrogen-doped carbon composite for high lithium storage. <i>Electrochimica Acta</i> , 2018 , 291, 197-205	6.7	6
690	Magnetic-field assisted synthesis of carbon dots-doped polyaniline nanotubes with a high-performance supercapacitance. 2018 , 246, 23-30		3
689	High-Performance Supercapacitor Based on Nitrogen and Phosphorus Co-Doped Nonporous Polybenzoxazine-Based Carbon Electrodes. 2018 , 165, A3313-A3320		15
688	Metal oxides in supercapacitors. 2018 , 169-203		16
687	Synthesis of High Surface Area Carbon Nanospheres with Wrinkled Cages and Their CO ₂ Capture Studies. 2018 , 3, 10684-10688		9
686	Self-template and self-activation synthesis of nitrogen-doped hierarchical porous carbon for supercapacitors. 2018 , 405, 132-141		63
685	ZIF-8 nanocrystals derived N-doped carbon decorated graphene sheets for symmetric supercapacitors. <i>Electrochimica Acta</i> , 2018 , 289, 494-502	6.7	44
684	Understanding the Roles of Sulfur Doping for Enhancing of Hydrophilicity and Electrochemical Performance of N,S-Codoped Hierarchically Porous Carbon. 2018 ,		2
683	Self-Templated Synthesis of Hierarchically Porous N-Doped Carbon Derived from Biomass for Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 13932-13939	8.3	41
682	Electrochemical Material Processing via Continuous Charge-Discharge Cycling: Enhanced Performance upon Cycling for Porous LaMnO ₃ Perovskite Supercapacitor Electrodes. 2018 , 5, 3723-3730		13
681	Tuning the Electrochemical Properties of Nitrogen-Doped Carbon Aerogels in a Blend of Ammonia and Nitrogen Gases. 2018 , 1, 5043-5053		15
680	In Situ Doping Boron Atoms into Porous Carbon Nanoparticles with Increased Oxygen Graft Enhances both Affinity and Durability toward Electrolyte for Greatly Improved Supercapacitive Performance. 2018 , 28, 1804190		101
679	A biomass-derived nitrogen-doped porous carbon for high-energy supercapacitor. 2018 , 140, 404-412		67
678	Emerging Carbon-Nanofiber Aerogels: Chemosynthesis versus Biosynthesis. 2018 , 57, 15646-15662		74
677	Kohlenstoffnanofaser-Aerogele: Vergleich von Chemosynthese und Biosynthese. 2018 , 130, 15872-15889		8
676	Large-scale synthesis of porous carbon via one-step CuCl ₂ activation of rape pollen for high-performance supercapacitors. 2018 , 6, 12046-12055		85
675	Hierarchical porous carbons from a sodium alginate/bacterial cellulose composite for high-performance supercapacitor electrodes. <i>Applied Surface Science</i> , 2018 , 455, 795-807	6.7	37
674	Synthesis of mesoporous tubular carbon using natural tubular Halloysite as template for supercapacitor. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 12187-12194	2.1	7

673	Template-Oriented Synthesis of Nitrogen-Enriched Porous Carbon Nanowhisker by Hollow TiO ₂ Spheres Nanothorns for Methanol Electrooxidation. 2018 , 1, 2758-2768		10
672	Gyroidal Porous Carbon Activated with NH ₃ or CO ₂ as Lithium-Sulfur Battery Cathodes. 2018 , 1, 83-94		10
671	Carbon aerogel-based supercapacitors modified by hummers oxidation method. <i>Journal of Colloid and Interface Science</i> , 2018 , 527, 25-32	9.3	23
670	Facile synthesis of a BiFeO ₃ /nitrogen-doped graphene nanocomposite system with enhanced photocatalytic activity. 2018 , 121, 8-16		20
669	Turning gelidium amansii residue into nitrogen-doped carbon nanofiber aerogel for enhanced multiple energy storage. 2018 , 137, 31-40		35
668	Highly nitrogen-doped graphitic carbon fibers from sustainable plant protein for supercapacitor. <i>Industrial Crops and Products</i> , 2018 , 121, 226-235	5.9	32
667	Camellia pollen-derived carbon for supercapacitor electrode material. 2018 , 394, 9-16		53
666	Enhanced electrochemical performances of heteroatom-enriched carbon with hierarchical pores prepared by trehalose as a pore-forming agent and a simple one-step carbonization/activation process for supercapacitors. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 10689-10701	2.1	6
665	Facile preparation of nitrogen-enriched hierarchical porous carbon nanofibers by Mg(OAc) ₂ -assisted electrospinning for flexible supercapacitors. <i>Applied Surface Science</i> , 2018 , 456, 827-834	6.7	19
664	CO ₂ -activated porous self-templated N-doped carbon aerogel derived from banana for high-performance supercapacitors. <i>Applied Surface Science</i> , 2018 , 457, 477-486	6.7	73
663	The way to improve the energy density of supercapacitors: Progress and perspective. 2018 , 61, 1517-1526		51
662	Sustainable nitrogen-rich hierarchical porous carbon nest for supercapacitor application. 2018 , 198, 364-374		25
661	Nitrogen-enriched carbon spheres coupled with graphitic carbon nitride nanosheets for high performance supercapacitors. 2018 , 47, 9724-9732		15
660	Synthesis of ZnO/activated carbon with high surface area for supercapacitor electrodes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018 , 555, 482-490	5.1	37
659	Lignin-based hierarchical porous carbon nanofiber films with superior performance in supercapacitors. <i>Applied Surface Science</i> , 2018 , 456, 568-576	6.7	76
658	Coal tar pitch derived N-doped porous carbon nanosheets by the in-situ formed g-C ₃ N ₄ as a template for supercapacitor electrodes. <i>Electrochimica Acta</i> , 2018 , 283, 132-140	6.7	60
657	Efficient synthesis of nitrogen and oxygen co-doped hierarchical porous carbons derived from soybean meal for high-performance supercapacitors. 2018 , 766, 705-715		22
656	Heteroatom-doped porous carbon electrodes derived from a carbonyl-based aromatic porous polymer for supercapacitors. 2018 , 243, 115-120		12

655	One-pot synthesis of g-C ₃ N ₄ /MnO ₂ and g-C ₃ N ₄ /SnO ₂ hybrid nanocomposites for supercapacitor applications. 2018 , 2, 2244-2251		53
654	Highly Tunable and Facile Synthesis of Uniform Carbon Flower Particles. 2018 , 140, 10297-10304		55
653	Nitrogen-Doped Porous Carbon Derived from Carbazole-Substituted Tetraphenylethylene-Based Hypercrosslinked Polymer for High-Performance Supercapacitor. 2018 , 3, 8483-8490		12
652	Transition metal-assisted carbonization of small organic molecules toward functional carbon materials. 2018 , 4, eaat0788		106
651	Graphitic carbon nitride modified graphene/NiAl layered double hydroxide and 3D functionalized graphene for solid-state asymmetric supercapacitors. <i>Chemical Engineering Journal</i> , 2018 , 353, 824-838	14.7	38
650	Microporosity-Controlled Synthesis of Heteroatom Codoped Carbon Nanocages by Wrap-Bake-Sublime Approach for Flexible All-Solid-State-Supercapacitors. 2018 , 28, 1803786		63
649	N,O-Codoped Hierarchically Porous Carbons Derived from Squid Pen for High-Capacity Supercapacitors. 2018 , 3, 8144-8150		3
648	High performance carbon supercapacitor electrodes derived from a triazine-based covalent organic polymer with regular porosity. <i>Electrochimica Acta</i> , 2018 , 284, 98-107	6.7	33
647	Synthesis of mesoporous ribbon-shaped graphitic carbon nanofibers with superior performance as efficient supercapacitor electrodes. <i>Electrochimica Acta</i> , 2018 , 292, 364-373	6.7	22
646	Direct synthesis of graphene-based hybrid films as flexible supercapacitor electrodes. 2018 , 244, 99-105		3
645	PVP-assisted synthesis of nitrogen-doped hollow carbon spheres for supercapacitors. 2018 , 768, 42-48		29
644	Recent advances in 2-D nanostructured metal nitrides, carbides, and phosphides electrodes for electrochemical supercapacitors [A brief review]. 2018 , 67, 12-27		78
643	Carbon nanomaterial-enabled pesticide biosensors: Design strategy, biosensing mechanism, and practical application. 2018 , 106, 62-83		78
642	Marine and Freshwater Feedstocks as a Precursor for Nitrogen-Containing Carbons: A Review. 2018 , 16,		6
641	Nitrogen-Doped Hierarchical Porous Carbon from Wheat Straw for Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 11595-11605	8.3	72
640	Electrochemical performance of polyaniline-derived nitrogen-doped carbon nanowires. <i>Electrochimica Acta</i> , 2018 , 283, 1618-1631	6.7	27
639	Hierarchical Titanium Dioxide Nanowire/Metal-Organic Framework/Carbon Nanofiber Membranes for Highly Efficient Photocatalytic Degradation of Hydrogen Sulfide. 2018 , 24, 15019-15025		16
638	Surface modification of biomass-derived hard carbon by grafting porous carbon nanosheets for high-performance supercapacitors. 2018 , 6, 15954-15960		159

- 637 Nanoimprint lithography of nanoporous carbon materials for micro-supercapacitor architectures. *Nanoscale*, **2018**, 10, 10109-10115 7.7 41
- 636 Absorption of Ethylene on Membranes Containing Potassium Permanganate Loaded into Alumina-Nanoparticle-Incorporated Alumina/Carbon Nanofibers. **2018**, 66, 5635-5643 17
- 635 Hierarchically Macroporous Graphitic Nanowebs Exhibiting Ultra-fast and Stable Charge Storage Performance. **2018**, 13, 36 3
- 634 Electrochemical and photocatalytic investigation of nickel oxide for energy storage and wastewater treatment. **2018**, 44, 5653-5667 19
- 633 Improvement in the pore structure of gulfweed-based activated carbon via two-step acid treatment for high performance supercapacitors. *Journal of Electroanalytical Chemistry*, **2018**, 820, 103-110 12
- 632 Roll-to-Roll Production of Graphitic Petals on Carbon Fiber Tow. **2018**, 20, 1800004 6
- 631 Fast supercapacitors based on vertically oriented MoS₂ nanosheets on plasma pyrolyzed cellulose filter paper. **2018**, 400, 277-283 34
- 630 Nitrogen-oxygen co-doped corrugation-like porous carbon for high performance supercapacitor. **2018**, 12, 283-291 5
- 629 Novel collagen waste derived Mn-doped nitrogen-containing carbon for supercapacitors. *Electrochimica Acta*, **2018**, 285, 292-300 6.7 24
- 628 Elaborate construction of N/S-co-doped carbon nanobowls for ultrahigh-power supercapacitors. **2018**, 6, 17653-17661 78
- 627 Temperature-induced hierarchical Tremella-like and Pinecone-like NiO microspheres for high-performance supercapacitor electrode materials. **2018**, 53, 12477-12491 12
- 626 3D-Ridge Stocked Layers of Nitrogen-Doped Mesoporous Carbon Nanosheets for Ultrasensitive Monitoring of Dopamine Released from PC12 Cells under K Stimulation. **2018**, 7, e1701459 49
- 625 2.21 Supercapacitors. **2018**, 663-695 4
- 624 A novel strategy for the high performance supercapacitor based on polyacrylonitrile-derived porous nanofibers as electrode and separator in ionic liquid electrolyte. *Electrochimica Acta*, **2018**, 282, 97-104 6.7 35
- 623 Towards enhanced energy density of graphene-based supercapacitors: Current status, approaches, and future directions. **2018**, 396, 182-206 79
- 622 Nitrogen-doped porous carbons with ultrahigh specific surface area as bifunctional materials for dye removal of wastewater and supercapacitors. *Applied Surface Science*, **2018**, 456, 184-194 6.7 28
- 621 Improved hydrothermal stability of Pd nanoparticles on nitrogen-doped carbon supports. **2018**, 8, 3548-3561 16
- 620 Facile synthesis of chitosan-based carbon with rich porous structure for supercapacitor with enhanced electrochemical performance. *Journal of Electroanalytical Chemistry*, **2018**, 823, 563-572 4.1 35

619	Nitrogen-Decorated Porous Carbon Supported AgPd Nanoparticles for Boosting Hydrogen Generation from Formic Acid. 2019 , 7, 140-145		20
618	Enhanced electrochemical performance of porous Co-doped TiO ₂ nanomaterials prepared by a solvothermal method. 2019 , 273, 148-155		71
617	Multiscale Porous Carbon Nanomaterials for Applications in Advanced Rechargeable Batteries. 2019 , 2, 9-36		41
616	Microwave/freeze casting assisted fabrication of carbon frameworks derived from embedded upholder in tremella for superior performance supercapacitors. 2019 , 18, 447-455		52
615	New comprehensions on structure superiority of asymmetric carbon membrane and controlled construction of advanced hierarchical inner-structure for high performance supercapacitors. 2019 , 275, 14-25		22
614	Preparation of stable composite porous nanofibers carried SnO _x -ZnO as a flexible supercapacitor material with excellent electrochemical and cycling performance. 2019 , 807, 151652		15
613	High Entropy Oxides-A Cost-Effective Catalyst for the Growth of High Yield Carbon Nanotubes and Their Energy Applications. 2019 , 11, 30846-30857		32
612	Indium tin oxide nanowires as voltage self-stabilizing supercapacitor electrodes. 2019 , 34, 3195-3203		3
611	Component Degradation-Enabled Preparation of Biomass-Based Highly Porous Carbon Materials for Energy Storage. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 15259-15266	8.3	17
610	Carbon-based catalysts for electrochemical CO ₂ reduction. 2019 , 3, 2890-2906		36
609	Ultra-high nitrogen content biomass carbon supercapacitors and nitrogen forms analysis. 2019 , 809, 151664		20
608	Architectural design and promises of carbon materials for energy conversion and storage: in laboratory and industry. 2019 , 25-61		3
607	Li-Ion Capacitor Integrated with Nano-network-Structured Ni/NiO/C Anode and Nitrogen-Doped Carbonized Metal-Organic Framework Cathode with High Power and Long Cyclability. 2019 , 11, 30694-30702		33
606	Nanocellulose applications in sustainable electrochemical and piezoelectric systems: A review. 2019 , 224, 115149		42
605	Nitrogen-doped hierarchical porous carbons prepared via freeze-drying assisted carbonization for high-performance supercapacitors. <i>Applied Surface Science</i> , 2019 , 496, 143643	6.7	17
604	Bark-Based 3D Porous Carbon Nanosheet with Ultrahigh Surface Area for High Performance Supercapacitor Electrode Material. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 13827-13835	8.3	40
603	Tamarind shell derived N-doped carbon for capacitive deionization (CDI) studies. <i>Journal of Electroanalytical Chemistry</i> , 2019 , 848, 113307	4.1	13
602	High-capacitance supercapacitor based on nitrogen-doped porous carbons-sandwiched graphene hybrid frameworks. 2019 , 25, 6017-6023		6

601	Harvesting Biomass-Based Ni ²⁺ Doped Carbonaceous Materials with High Capacitance by Fast Pyrolysis of Ni Enriched Spent Wetland Biomass. 2019 , 58, 13868-13878		10
600	Boosting the performance of supercapacitors based hierarchically porous carbon from natural <i>Juncus effuses</i> by incorporation of MnO ₂ . 2019 , 805, 822-830		19
599	Carbothermal process-derived porous N-doped carbon for flexible energy storage: Influence of carbon surface area and conductivity. <i>Chemical Engineering Journal</i> , 2019 , 378, 122158	14.7	14
598	Facile Preparation of 2D Nitrogen and Sulfur Co-Doped Porous Carbon Nanosheets for High-Performance Supercapacitors. 2019 , 166, A2459-A2466		2
597	Carbon-Based Composites for Supercapacitor. 2019 ,		7
596	Interfacial Engineering of Nickel Boride/Metaborate and Its Effect on High Energy Density Asymmetric Supercapacitors. <i>ACS Nano</i> , 2019 , 13, 9376-9385	16.7	68
595	Sustainable synthesis of N/S-doped porous carbon sheets derived from waste newspaper for high-performance asymmetric supercapacitor. 2019 , 6, 095605		1
594	Buckled Amorphous Hollow Carbon Spheres: Facile Fabrication, Buckling Process, and Applications as Electrode Materials for Supercapacitors. 2019 , 11, 30116-30124		7
593	Nitrogen/sulfur co-doped ordered carbon nanoarrays for superior sulfur hosts in lithium-sulfur batteries. <i>Journal of Colloid and Interface Science</i> , 2019 , 554, 711-721	9.3	29
592	Interconnected nanoporous carbon structure delivering enhanced mass transport and conductivity toward exceptional performance in supercapacitor. 2019 , 435, 226811		16
591	Hierarchical porous carbon with optimized mesopore structure and nitrogen doping for supercapacitor electrodes. 2019 , 288, 109576		25
590	Enhancing Lithium Insertion with Electrostatic Nanoconfinement in a Lithography Patterned Precision Cell. <i>ACS Nano</i> , 2019 , 13, 8481-8489	16.7	3
589	Frequency-Dependent Effective Capacitance of Supercapacitors Using Electrospun Cobalt-Carbon Composite Nanofibers. 2019 , 166, A2403-A2408		5
588	Achieving high-energy-density and ultra-stable zinc-ion hybrid supercapacitors by engineering hierarchical porous carbon architecture. <i>Electrochimica Acta</i> , 2019 , 327, 134999	6.7	61
587	Nanowire Genome: A Magic Toolbox for 1D Nanostructures. 2019 , 31, e1902807		29
586	Low-frequency noise suppression for desert seismic data based on a wide inference network. 2019 , 16, 801-810		4
585	Review: New insights into optimizing chemical and 3D surface structures of carbon electrodes for neurotransmitter detection. 2019 , 11, 247-261		48
584	Nitrogen-rich hierarchical porous carbon materials with interconnected channels for high stability supercapacitors. <i>New Journal of Chemistry</i> , 2019 , 43, 1864-1873	3.6	4

583	Thermally Durable Lithium-Ion Capacitors with High Energy Density from All Hydroxyapatite Nanowire-Enabled Fire-Resistant Electrodes and Separators. 2019 , 9, 1902497		21
582	Direct Fabrication of Reduced Graphene Oxide@SnO ₂ Hollow Nanofibers by Single-Capillary Electrospinning as Fast NO ₂ Gas Sensor. 2019 , 2019, 1-7		1
581	Engineering Redox Activity in Conjugated Microporous Polytriphenylamine Networks Using Pyridyl Building Blocks toward Efficient Supercapacitors. 2019 , 40, e1900455		18
580	The mechanistic actions of different silver species at the surfaces of polyacrylonitrile nanofibers regarding antibacterial activities. 2019 , 21, 100622		9
579	Nitrogen-rich porous carbon modified electrochemical sensor for the detection of acetaminophen. <i>Journal of Electroanalytical Chemistry</i> , 2019 , 855, 113496	4.1	15
578	Macroscopic synthesis of ultrafine N-doped carbon nanofibers for superior capacitive energy storage. 2019 , 64, 1617-1624		44
577	Using FeCl ₃ as a Solvent, Template, and Activator To Prepare B, N Co-Doping Porous Carbon with Excellent Supercapacitance. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 15983-15994	8.3	29
576	N-Doped Hierarchical Continuous Hollow Thin Porous Carbon Nanostructure for High-Performance Flexible Gel-Type Symmetric Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 17020-17029	8.3	29
575	One-pot synthesis of activated porous graphitic carbon spheres with cobalt nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019 , 582, 123884	5.1	6
574	CuO nanoparticles derived from metal-organic gel with excellent electrocatalytic and peroxidase-mimicking activities for glucose and cholesterol detection. 2019 , 145, 111704		44
573	Biomass derived carbon as binder-free electrode materials for supercapacitors. 2019 , 155, 706-726		149
572	Nitrogen-doped graphene-TiO ₂ N nanocomposite electrode for highly efficient capacitive deionization.. <i>RSC Advances</i> , 2019 , 9, 28186-28193	3.7	7
571	Three-dimensional nitrogen and phosphorus co-doped carbon quantum dots/reduced graphene oxide composite aerogels with a hierarchical porous structure as superior electrode materials for supercapacitors. 2019 , 7, 26311-26325		108
570	Nanowires for Electrochemical Energy Storage. 2019 , 119, 11042-11109		167
569	Facile synthesis of nitrogen and oxygen co-doped C@Ti ₃ C ₂ MXene for high performance symmetric supercapacitors. 2019 , 439, 227068		58
568	Bimetallic-organic coordination polymers to prepare N-doped hierarchical porous carbon for high performance supercapacitors. 2019 , 29, 495-503		8
567	Making Porous Materials Respond to Visible Light. 2019 , 4, 2656-2667		13
566	A high-energy sodium-ion capacitor enabled by a nitrogen/sulfur co-doped hollow carbon nanofiber anode and an activated carbon cathode. 2019 , 1, 746-756		18

565	Synthesis of n-doped mesoporous carbon by silica assistance as electrode for supercapacitor. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 3214-3221	2.1	8
564	Fabrication of three-dimensional microtubular kapok fiber carbon aerogel/RuO ₂ composites for supercapacitors. <i>Electrochimica Acta</i> , 2019 , 300, 225-234	6.7	37
563	From ZIF nanoparticles to hierarchically porous carbon: toward very high surface area and high-performance supercapacitor electrode materials. <i>Inorganic Chemistry Frontiers</i> , 2019 , 6, 32-39	6.8	13
562	A molecular engineering approach to pore-adjustable nanoporous carbons with narrow distribution for high-performance supercapacitors. 2019 , 55, 2305-2308		19
561	Preparation of Fe ^{II} nanofiber composites by metal organic complex and potential application in supercapacitors. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 4665-4675	2.1	7
560	Iron oxide-based nanomaterials for supercapacitors. 2019 , 30, 204002		28
559	Hierarchical Porous Carbon Spheres from Low-Density Polyethylene for High-Performance Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 3801-3810	8.3	34
558	Advances in constructing polymeric carbon-nitride-based nanocomposites and their applications in energy chemistry. 2019 , 3, 611-655		43
557	A novel way to synthesize nitrogen doped porous carbon materials with high rate performance and energy density for supercapacitors. 2019 , 785, 110-116		29
556	Boron/nitrogen co-doped carbon synthesized from waterborne polyurethane and graphene oxide composite for supercapacitors.. <i>RSC Advances</i> , 2019 , 9, 1679-1689	3.7	21
555	Multi-layered zeolitic imidazolate framework based self-templated synthesis of nitrogen-doped hollow porous carbon dodecahedrons as robust substrates for supercapacitors. <i>New Journal of Chemistry</i> , 2019 , 43, 2171-2178	3.6	12
554	CO ₂ -induced architectural transition of hierarchically porous carbon in reverse microemulsion system. 2019 , 151, 18-27		3
553	Heteroatom-doped hollow carbon spheres made from polyaniline as an electrode material for supercapacitors.. <i>RSC Advances</i> , 2019 , 9, 15868-15873	3.7	4
552	In situ fabrication of nitrogen doped porous carbon nanorods derived from metal-organic frameworks and its application as supercapacitor electrodes. 2019 , 277, 100-106		12
551	N/O Codoped Porous Carbons with Layered Structure for High-Rate Performance Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 11219-11227	8.3	16
550	An Eco-Friendly Nitrogen Source for the Preparation of Vanadium Nitride/Nitrogen-Doped Carbon Nanocomposites for Supercapacitors. 2019 , 6, 3445-3453		9
549	Improved surface charge storage properties of Prosopis juliflora (pods) derived onion-like porous carbon through redox-mediated reactions for electric double layer capacitors. <i>Applied Surface Science</i> , 2019 , 492, 896-908	6.7	14
548	Hydrothermal synthesis of nitrogen, sulfur co-doped graphene and its high performance in supercapacitor and oxygen reduction reaction. 2019 , 290, 109556		28

547	A Novel Porous N- and S-Self-Doped Carbon Derived from Chinese Rice Wine Lees as High-Performance Electrode Materials in a Supercapacitor. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 ,	8.3	8
546	Free-standing N-self-doped carbon nanofiber aerogels for high-performance all-solid-state supercapacitors. 2019 , 63, 103836		105
545	Low-cost high-performance asymmetric supercapacitors based on ribbon-like Ni(OH) ₂ and biomass carbon nanofibers enriched with nitrogen and phosphorus. 2019 , 25, 4341-4350		7
544	Free-standing macro-porous nitrogen doped graphene film for high energy density supercapacitor. <i>Electrochimica Acta</i> , 2019 , 318, 865-874	6.7	27
543	Novel Synthesis of Nitrogen-Containing Bio-Phenol Resin and Its Molten Salt Activation of Porous Carbon for Supercapacitor Electrode. 2019 , 12,		6
542	Hollow Carbon Nanobelts Codoped with Nitrogen and Sulfur via a Self-Templated Method for a High-Performance Sodium-Ion Capacitor. 2019 , 15, e1902659		39
541	Comparison of ionic liquid electrolyte to aqueous electrolytes on carbon nanofibres supercapacitor electrode derived from oxygen-functionalized graphene. <i>Chemical Engineering Journal</i> , 2019 , 375, 121906	14.7	27
540	A N, P Dual-Doped Carbon with High Porosity as an Advanced Metal-Free Oxygen Reduction Catalyst. 2019 , 6, 1900592		21
539	Tin-embedded carbon nanofibers as flexible and freestanding electrode materials for high-performance supercapacitors. 2019 , 25, 4875-4890		5
538	Fabrication of Hierarchical Porous Carbon Frameworks from Metal-Ion-Assisted Step-Activation of Biomass for Supercapacitors with Ultrahigh Capacitance. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 10763-10772	8.3	40
537	Tuning Ni/Al Ratio to Enhance Pseudocapacitive Charge Storage Properties of Nickel-Aluminum Layered Double Hydroxide. 2019 , 5, 1900215		20
536	Nanocellulose based functional materials for supercapacitor applications. 2019 , 4, 333-340		29
535	Conducting Polymers Based Composite Electrode Materials in Supercapacitor Application. 2019 , 267, 042047		9
534	Rapid synthesis of nitrogen-doped hollow carbon microspheres with hierarchical macro/mesoporous shell for supercapacitors. 2019 , 232, 513-519		8
533	Supercapacitive performance of a ternary nanocomposite based on carbon nanofibers with nanostructured chitosan and cobalt particles. 2019 , 233, 353-365		8
532	Core-shell assembly of carbon nanofibers and a 2D conductive metal-organic framework as a flexible free-standing membrane for high-performance supercapacitors. <i>Inorganic Chemistry Frontiers</i> , 2019 , 6, 1824-1830	6.8	44
531	Fast microwave self-activation from chitosan hydrogel bead to hierarchical and O, N co-doped porous carbon at an air-free atmosphere for high-rate electrodes material. 2019 , 219, 229-239		24
530	Effective synthetic strategy for Zn _{0.76} Co _{0.24} S encapsulated in stabilized N-doped carbon nanoarchitecture towards ultra-long-life hybrid supercapacitors. 2019 , 7, 14670-14680		41

529	Study of the supercapacitive activity of a Eu-MOF as an electrode material. <i>New Journal of Chemistry</i> , 2019 , 43, 9260-9264	3.6	9
528	Bioconcentration and bioassembly of N/S co-doped carbon with excellent stability for supercapacitors. <i>Applied Surface Science</i> , 2019 , 488, 316-325	6.7	57
527	Synthesis of nitrogen-doped carbon spheres using the modified Stober method for supercapacitors. 2019 , 13, 156-164		3
526	Green and facile fabrication of Cu-doped carbon aerogels from sodium alginate for supercapacitors. 2019 , 70, 246-251		22
525	Facile synthesis of nitrogen-doped carbon materials with hierarchical porous structures for high-performance supercapacitors in both acidic and alkaline electrolytes. 2019 , 7, 13154-13163		38
524	Enhanced Microwave Absorption Performance from Magnetic Coupling of Magnetic Nanoparticles Suspended within Hierarchically Tubular Composite. 2019 , 29, 1901448		321
523	Multivalent metal ion hybrid capacitors: a review with a focus on zinc-ion hybrid capacitors. 2019 , 7, 13810-13833		36
522	Nitrogen-doped 3D web-like interconnected porous carbon prepared by a simple method for supercapacitors. 2019 , 25, 4333-4340		4
521	An efficient electrode material for high performance solid-state hybrid supercapacitors based on a Cu/CuO/porous carbon nanofiber/TiO hybrid composite. 2019 , 10, 781-793		27
520	Mesoporous carbon cubes derived from fullerene crystals as a high rate performance electrode material for supercapacitors. 2019 , 7, 12654-12660		54
519	Hierarchical porous carbon sheets derived on a MgO template for high-performance supercapacitor applications. 2019 , 30, 295703		23
518	CO ₂ -Assisted synthesis of hierarchically porous carbon as a supercapacitor electrode and dye adsorbent. <i>Inorganic Chemistry Frontiers</i> , 2019 , 6, 1141-1151	6.8	3
517	A N, S dual doping strategy via electrospinning to prepare hierarchically porous carbon polyhedra embedded carbon nanofibers for flexible supercapacitors. 2019 , 7, 9040-9050		88
516	Constructed nitrogen and sulfur codoped multilevel porous carbon from lignin for high-performance supercapacitors. 2019 , 789, 435-442		24
515	Tannic Acid-Assisted Fabrication of N/B-Codoped Hierarchical Carbon Nanofibers from Electrospun Zeolitic Imidazolate Frameworks as Free-Standing Electrodes for High-Performance Supercapacitors. 2019 , 48, 3050-3058		12
514	Heteroatom-Doped Mesoporous Hollow Carbon Spheres for Fast Sodium Storage with an Ultralong Cycle Life. 2019 , 9, 1900036		142
513	Calcium Chloride Activation of Mung Bean: A Low-Cost, Green Route to N-Doped Porous Carbon for Supercapacitors. 2019 , 4, 3432-3439		10
512	Synthesis of a porous interconnected nitrogen-doped graphene aerogel matrix incorporated with ytterbium oxide nanoparticles and its application in superior symmetric supercapacitors. <i>Electrochimica Acta</i> , 2019 , 306, 480-488	6.7	25

511	Bi-metal organic framework nanosheets assembled on nickel wire films for volumetric-energy-dense supercapacitors. 2019 , 423, 80-89		40
510	A novel way to synthesize nitrogen and oxygen co-doped porous carbon for high performance supercapacitors. 2019 , 282, 114-120		29
509	Wall thickness-tunable AgNPs-NCNTs for hydrogen peroxide sensing and oxygen reduction reaction. <i>Electrochimica Acta</i> , 2019 , 306, 466-476	6.7	16
508	Solution Self-Assembly of an Alternating Copolymer toward Hollow Carbon Nanospheres with Uniform Micropores. 2019 , 8, 331-336		20
507	Preparation and electrochemical studies of electrospun phosphorus doped porous carbon nanofibers.. <i>RSC Advances</i> , 2019 , 9, 6898-6906	3.7	20
506	N-doped 3D porous carbon-graphene/polyaniline hybrid and N-doped porous carbon coated gC3N4 nanosheets for excellent energy density asymmetric supercapacitors. <i>Electrochimica Acta</i> , 2019 , 305, 264-277	6.7	31
505	Mass production of hierarchically porous carbon nanosheets by carbonizing "real-world" mixed waste plastics toward excellent-performance supercapacitors. 2019 , 87, 691-700		39
504	Biomass derived interconnected hierarchical micro-meso-macro- porous carbon with ultrahigh capacitance for supercapacitors. 2019 , 147, 540-549		208
503	Fast one-pot microwave preparation and plasma modification of porous carbon from waste lignin for energy storage application. 2019 , 89, 129-140		22
502	Versatile Nanoemulsion Assembly Approach to Synthesize Functional Mesoporous Carbon Nanospheres with Tunable Pore Sizes and Architectures. 2019 , 141, 7073-7080		220
501	N-doped Carbon Coated CoO Nanowire Arrays Derived from Zeolitic Imidazolate Framework-67 as Binder-free Anodes for High-performance Lithium Storage. <i>Scientific Reports</i> , 2019 , 9, 5934	4.9	8
500	Ni ₃ ZnCo _{0.7} nanodots decorating nitrogen-doped carbon nanotube arrays as a self-standing bifunctional electrocatalyst for water splitting. 2019 , 148, 496-503		36
499	Novel nitrogen-doped ordered mesoporous carbon as high-performance anode material for sodium-ion batteries. 2019 , 791, 874-882		36
498	Highly Hydrophilic Carbon Dots' Decoration on NiCo ₂ O ₄ Nanowires for Greatly Increased Electric Conductivity, Supercapitance, and Energy Density. 2019 , 6, 1900049		8
497	Spectroscopic Fingerprints of Graphitic, Pyrrolic, Pyridinic, and Chemisorbed Nitrogen in N-Doped Graphene. 2019 , 123, 10695-10702		78
496	Camphor wood waste-derived microporous carbons as high-performance electrode materials for supercapacitors. 2019 , 29, 213-218		4
495	Oxygen vacancies modulation in graphene/MnOx composite for high performance supercapacitors. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019 , 569, 10-17	5.1	13
494	Synthesis of Ultrathin MnO ₂ Nanosheets/Bagasse Derived Porous Carbon Composite for Supercapacitor with High Performance. 2019 , 48, 3026-3035		8

493	Pinecone-derived porous activated carbon for high performance all-solid-state electrical double layer capacitors fabricated with flexible gel polymer electrolytes. <i>Electrochimica Acta</i> , 2019 , 304, 94-108 ^{6.7}	34
492	Progress, status and prospects of non-porous, heteroatom-doped carbons for supercapacitors and other electrochemical applications. 2019 , 125, 1	10
491	Preparation and capacitive performance of modified carbon black-doped porous carbon nanofibers. 2019 , 21, 1	6
490	Temperature-Dependent Morphologies of Precursors: Metal-Organic Framework-Derived Porous Carbon for High-Performance Electrochemical Double-Layer Capacitors. 2019 , 58, 2856-2864	12
489	Yeast protein derived hierarchical mesoporous carbon for symmetrical capacitor with excellent electrochemical performances. 2019 , 281, 50-56	7
488	Carbon Nanomaterials in Renewable Energy Production and Storage Applications. 2019 , 51-104	11
487	Advanced aqueous energy storage devices based on flower-like nanosheets-assembled Ni _{0.85} Se microspheres and porous Fe ₂ O ₃ nanospheres. <i>Electrochimica Acta</i> , 2019 , 302, 449-458	6.7 11
486	High density graphene-carbon nanosphere films for capacitive energy storage. 2019 , 7, 6126-6133	22
485	Hierarchical porous carbon microrods derived from albizia flowers for high performance supercapacitors. 2019 , 147, 242-251	124
484	Study of the structure-properties relations of carbon spheres affecting electrochemical performances of EDLCs. <i>Electrochimica Acta</i> , 2019 , 304, 210-220	6.7 30
483	Polymer/block copolymer blending system as the compatible precursor system for fabrication of mesoporous carbon nanofibers for supercapacitors. 2019 , 419, 137-147	26
482	Deep eutectic solvents as active media for the preparation of highly conducting 3D free-standing PANI xerogels and their derived N-doped and N-, P-codoped porous carbons. 2019 , 146, 813-826	8
481	A facile in-situ activation of protonated histidine-derived porous carbon for electrochemical capacitive energy storage. 2019 , 73, 316-327	4
480	Natural Plant Template-Derived Cellular Framework Porous Carbon as a High-Rate and Long-Life Electrode Material for Energy Storage. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 5845-5855	8.3 40
479	Novel mesoporous electrode materials for symmetric, asymmetric and hybrid supercapacitors. 2019 , 30, 202001	42
478	Ultra-small Ni-VN nanoparticles co-embedded in N-doped carbons as an effective electrode material for energy storage. <i>Electrochimica Acta</i> , 2019 , 302, 385-393	6.7 11
477	Facile synthesis of Gd and Sn co-doped BiFeO ₃ supported on nitrogen doped graphene for enhanced photocatalytic activity. 2019 , 130, 222-229	16
476	g-CN/CuO and g-CN/CoO nanohybrid structures as efficient electrode materials in symmetric supercapacitors.. <i>RSC Advances</i> , 2019 , 9, 38430-38437	3.7 8

475	Fabrication and Characterization of Electrospun Aligned Porous PAN/Graphene Composite Nanofibers. 2019 , 9,		10
474	A carbonized porous aromatic framework to achieve customized nitrogen atoms for enhanced supercapacitor performance. <i>New Journal of Chemistry</i> , 2019 , 43, 18158-18164	3.6	7
473	Nitrogen self-doped porous carbon nanosheets derived from azo dye floccs for efficient supercapacitor electrodes. 2019 , 29, 455-460		1
472	Almond Shell-Derived Carbons under Low-Temperature Activation with Ultra-High Surface Area and Superior Performance for Supercapacitors. 2019 , 4, 12472-12478		2
471	Nitrogen-Doped Hollow Mesoporous Carbon Tube for Supercapacitors Application. 2019 , 166, A4047-A4055		5
470	The Effect of Chitosan's Addition to Resorcinol/Formaldehyde Xerogels on the Characteristics of Resultant Activated Carbon. 2019 , 12,		1
469	Design of high specific surface area N-doped carbon aerogels via a microwave reduction method. 2019 , 54, 1580-1592		4
468	Fe ₃ O ₄ nanorods in N-doped carbon matrix with pseudo-capacitive behaviors as an excellent anode for subzero lithium-ion batteries. 2019 , 772, 557-564		26
467	Photothermally Active Reduced Graphene Oxide/Bacterial Nanocellulose Composites as Biofouling-Resistant Ultrafiltration Membranes. 2019 , 53, 412-421		39
466	Nitrogen-doped carbon mesh from pyrolysis of cotton in ammonia as binder-free electrodes of supercapacitors. 2019 , 274, 313-317		27
465	Novel porous carbon nanosheet derived from a 2D Cu-MOF: Ultrahigh porosity and excellent performances in the supercapacitor cell. 2019 , 144, 540-548		75
464	Biobased Nitrogen- and Oxygen-Codoped Carbon Materials for High-Performance Supercapacitor. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 2763-2773	8.3	64
463	Effect of graphitization degree of electrospinning carbon fiber on catalytic oxidation of styrene and electrochemical properties. 2019 , 715, 299-309		8
462	MnCo ₂ O ₄ @nitrogen-doped carbon nanofiber composites with meso-microporous structure for high-performance symmetric supercapacitors. 2019 , 782, 251-262		46
461	Porous Organic-Polymer-Derived Nitrogen-Doped Porous Carbon Nanoparticles for Efficient Oxygen Reduction Electrocatalysis and Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 2236-2244	8.3	19
460	N-Doped Hierarchical Porous Carbon with Open-Ended Structure for High-Performance Supercapacitors. 2019 , 6, 1696-1703		18
459	Robust, Environmentally Benign Synthesis of Nanoporous Graphene Sheets from Biowaste for Ultrafast Supercapacitor Application. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 2516-2529	8.3	49
458	Synthesis of Ultrahigh Surface Area of Nitrogen-Doped Porous Carbon Materials from Alginic-Based Protic Polyanion Ionic Liquids for High-Performance Supercapacitors. 2019 , 7, 1800734		7

457	Nitrogen-doped porous carbon monoliths from molecular-level dispersion of carbon nanotubes into polyacrylonitrile (PAN) and the effect of carbonization process for supercapacitors. 2019 , 143, 776-785		36
456	Oxygen-enriched crumpled graphene-based symmetric supercapacitor with high gravimetric and volumetric performances. <i>Journal of Electroanalytical Chemistry</i> , 2019 , 833, 119-125	4.1	15
455	The synthesis and electrochemical performance of NiCo ₂ O ₄ embedded carbon nanofibers for high-performance supercapacitors. 2019 , 27, 189-197		15
454	Supercapacitor Energy Storage Device Using Biowastes: A Sustainable Approach to Green Energy. 2019 , 11, 414		82
453	g-C ₃ N ₄ nanosheet@CoAl-layered double hydroxide composites for electrochemical energy storage in supercapacitors. <i>Chemical Engineering Journal</i> , 2019 , 362, 743-757	14.7	64
452	One-step preparation of nitrogen-doped porous carbons with excellent properties for high-performance supercapacitors. 2019 , 129, 122-127		19
451	Flexible all-solid planar fibrous cellulose nonwoven fabric-based supercapacitor via capillarity-assisted graphene/MnO ₂ assembly. 2019 , 782, 986-994		44
450	Urea-Modified Phenol-Formaldehyde Resins for the Template-Assisted Synthesis of Nitrogen-Doped Carbon Nanosheets as Electrode Material for Supercapacitors. 2019 , 6, 885-891		22
449	Template-free method for fabricating carbon nanotube combined with thin N-doped porous carbon composite for supercapacitor. 2019 , 54, 6451-6460		16
448	Renewable-Resource-Based Waste Materials for Supercapacitor Application. 2019 , 4, 492-501		7
447	Nitrogen-containing activated carbon of improved electrochemical performance derived from cotton stalks using indirect chemical activation. <i>Journal of Colloid and Interface Science</i> , 2019 , 540, 285-294		14
446	Tuning Charge Storage Properties of Supercapacitive Electrodes Evidenced by In Situ Gravimetric and Viscoelastic Explorations. 2019 , 91, 2885-2893		10
445	A Robust and Scalable Polydopamine/Bacterial Nanocellulose Hybrid Membrane for Efficient Wastewater Treatment. <i>ACS Applied Nano Materials</i> , 2019 , 2, 1092-1101	5.6	60
444	Co,N-doped mesoporous carbons cobalt derived from coordination polymer as supercapacitors. <i>Electrochimica Acta</i> , 2019 , 299, 987-998	6.7	18
443	Capacitance improvements of V ₄ C ₃ T by NH ₃ annealing. 2019 , 784, 923-930		20
442	Creating binder-free supercapacitor electrodes from biomass resources: a nitrogen-doped pomelo peel derived carbon foam. 2019 , 15, 170		1
441	Three-Dimensional Porous TiO ₂ -NiO Composite Electrodes with Enhanced Electrochemical Performance for Supercapacitors. 2019 , 12,		25
440	A review of performance optimization of MOF-derived metal oxide as electrode materials for supercapacitors. <i>International Journal of Energy Research</i> , 2019 , 43, 697-716	4.5	79

439	Hybrid dual-functioning electrodes for combined ambient energy harvesting and charge storage: Towards self-powered systems. 2019 , 126, 275-291		22
438	Facile in Situ Synthesis of Multiple-Heteroatom-Doped Carbons Derived from Polyimide Precursors for Flexible All-Solid-State Supercapacitors. 2019 , 11, 1996-2005		23
437	Facile synthesis of B/N co-doped 2D porous carbon nanosheets derived from ammonium humate for supercapacitor electrodes. <i>Electrochimica Acta</i> , 2019 , 298, 1-13	6.7	44
436	Effects of Sodium Alginate on the Composition, Morphology, and Electrochemical Properties of Electrospun Carbon Nanofibers as Electrodes for Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 632-640	8.3	21
435	An adenine-originated N-doped carbon supporting Pd3Ru nanoparticle with high performance for glycerol electrooxidation. 2019 , 54, 4579-4588		5
434	Nitrogen-doped carbon materials as a promising platform toward the efficient catalysis for hydrogen generation. 2019 , 571, 25-41		41
433	Carbon materials for high-voltage supercapacitors. 2019 , 145, 529-548		161
432	A self-healable and mechanical toughness flexible supercapacitor based on polyacrylic acid hydrogel electrolyte. <i>Chemical Engineering Journal</i> , 2019 , 357, 428-434	14.7	56
431	Molten salt synthesis of hierarchical porous N-doped carbon submicrospheres for multifunctional applications: High performance supercapacitor, dye removal and CO2 capture. 2019 , 141, 739-747		56
430	Template-free preparation of nitrogen-doped activated carbon with porous architecture for high-performance supercapacitors. 2019 , 276, 280-291		30
429	Diameter effect of silver nanowire doped in activated carbon as thin film electrode for high performance supercapacitor. <i>Applied Surface Science</i> , 2019 , 477, 257-263	6.7	15
428	Wet-spinning assembly of nitrogen-doped graphene film for stable graphene-polyaniline supercapacitor electrodes with high mass loading. 2020 , 63, 1889-1897		4
427	Porous nitrogen-doped MXene-based electrodes for capacitive deionization. 2020 , 25, 731-739		67
426	Synthesis of nitrogen-doped flower-like carbon microspheres from urea-formaldehyde resins for high-performance supercapacitor. 2020 , 812, 152109		12
425	High-voltage aqueous asymmetric pseudocapacitors based on methyl blue-doped polyaniline hydrogels and the derived N/S-codoped carbon aerogels. <i>Chemical Engineering Journal</i> , 2020 , 383, 123153	14.7	20
424	Residue metals and intrinsic moisture in excess sludge improve pore formation during its carbonization process. 2020 , 156, 320-328		25
423	Defect-Rich Graphene Architecture Induced by Nitrogen and Phosphorus Dual Doping for High-Performance Supercapacitors. 2020 , 8, 1900685		4
422	Facile large-scaled fabrication of graphene-like materials by ultrasonic assisted shear exfoliation method for enhanced performance on flexible supercapacitor applications. 2020 , 10, 1131-1139		2

4 ²¹	Thermal conversion of polypyrrole nanotubes to nitrogen-doped carbon nanotubes for efficient water desalination using membrane capacitive deionization. 2020 , 235, 116196		25
4 ²⁰	Integrated structural design of polyaniline-modified nitrogen-doped hierarchical porous carbon nanofibers as binder-free electrodes toward all-solid-state flexible supercapacitors. <i>Applied Surface Science</i> , 2020 , 501, 144001	6.7	14
4 ¹⁹	Controlling the physical and electrochemical properties of block copolymer-based porous carbon fibers by pyrolysis temperature. 2020 , 5, 153-165		19
4 ¹⁸	Silica-assisted urea-formaldehyde-based carbon microspheres with enhanced supercapacitor performances as electrode. 2020 , 137, 48388		2
4 ¹⁷	N-activated carbon fiber produced by oxidation process design and its application as supercapacitor electrode. 2020 , 27, 141-149		6
4 ¹⁶	Development and application of self-healing materials in smart batteries and supercapacitors. <i>Chemical Engineering Journal</i> , 2020 , 380, 122565	14.7	81
4 ¹⁵	Nitrogen-Doped Carbon Nanomaterials: Synthesis, Characteristics and Applications. 2020 , 15, 2282-2293		38
4 ¹⁴	Nitrogen doping polyvinylpyrrolidone-based carbon nanofibers via pyrolysis of g-C ₃ N ₄ with tunable chemical states and capacitive energy storage. <i>Electrochimica Acta</i> , 2020 , 330, 135212	6.7	18
4 ¹³	Porous nitrogen-doped carbon/carbon nanocomposite electrodes enable sodium ion capacitors with high capacity and rate capability. 2020 , 67, 104240		31
4 ¹²	Phytic acid assisted preparation of high-performance supercapacitor electrodes from noncarbonizable polyvinylpyrrolidone. 2020 , 448, 227402		10
4 ¹¹	Heteroatoms-doped hierarchical porous carbon derived from chitin for flexible all-solid-state symmetric supercapacitors. <i>Chemical Engineering Journal</i> , 2020 , 384, 123263	14.7	123
4 ¹⁰	Use of Gemini surfactant as emulsion interface microreactor for the synthesis of nitrogen-doped hollow carbon spheres for high-performance supercapacitors. <i>Chemical Engineering Journal</i> , 2020 , 384, 123309	14.7	34
4 ⁰⁹	Walnut shell-derived hierarchical porous carbon with high performances for electrocatalytic hydrogen evolution and symmetry supercapacitors. 2020 , 45, 443-451		30
4 ⁰⁸	Multifunctional microporous activated carbon nanotubes anchored on graphite fibers for high-strength and high-rate flexible all-solid-state supercapacitors. <i>Applied Surface Science</i> , 2020 , 502, 144423	6.7	12
4 ⁰⁷	Tetragonal MF ₂ (M=Ni, Co) micro/nanocrystals anodes for lithium/sodium-ion capacitors. <i>Electrochimica Acta</i> , 2020 , 329, 135138	6.7	17
4 ⁰⁶	Coaxial electrospun free-standing and mechanically stable hierarchical porous carbon nanofiber membranes for flexible supercapacitors. 2020 , 160, 80-87		49
4 ⁰⁵	Influence of annealing temperature in nitrogen doped porous carbon balls derived from hypercross-linked polymer of anthracene for supercapacitor applications. <i>Journal of Energy Storage</i> , 2020 , 28, 101196	7.8	26
4 ⁰⁴	A facile self-catalyzed CVD method to synthesize Fe ₃ C/N-doped carbon nanofibers as lithium storage anode with improved rate capability and cyclability. 2020 , 44, 229-236		18

403	Electrospun Sb ₂ Se ₃ @C nanofibers with excellent lithium storage properties. 2020 , 31, 909-914		27
402	Progress in supercapacitors: roles of two dimensional nanotubular materials. 2020 , 2, 70-108		91
401	Synthesis of Benzoxazine-Based N-Doped Mesoporous Carbons as High-Performance Electrode Materials. 2020 , 10, 422		3
400	Rational Design of Electrochemical Iodine-Based Redox Mediators for Water-Proofed Flexible Fiber Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 2409-2415	8.3	6
399	A new generation of energy storage electrode materials constructed from carbon dots. 2020 , 4, 729-749		34
398	The synthesis and performance analysis of various biomass-based carbon materials for electric double-layer capacitors: A review. <i>International Journal of Energy Research</i> , 2020 , 44, 2426-2454	4.5	16
397	A facile route to high nitrogen-containing porous carbon fiber sheets from biomass-flax for high-performance flexible supercapacitors. <i>Applied Surface Science</i> , 2020 , 507, 145108	6.7	27
396	Synthesis of rich N-doped hierarchically porous carbon flowers for electrochemical energy storage. <i>Diamond and Related Materials</i> , 2020 , 102, 107691	3.5	6
395	Methanol and Diethanolamine Assisted Synthesis of Flexible Nitrogen-Doped Ti ₃ C ₂ (MXene) Film for Ultrahigh Volumetric Performance Supercapacitor Electrodes. 2020 , 3, 586-596		19
394	Controllable synthesis of porous CuO-Cu ₂ O/rGO microspheres composite as high-performance electrode material for supercapacitors. 2020 , 27, 845-858		7
393	Nitrogen-doped asphaltene-based porous carbon fibers as supercapacitor electrode material with high specific capacitance. <i>Electrochimica Acta</i> , 2020 , 330, 135270	6.7	26
392	Sulfur doped carbon porous as an efficient catalyst for sustainable energy processes. 2020 , 39, 13299		3
391	A photoelectrochemical supercapacitor based on a single BiVO ₄ -RGO bilayer photocapacitive electrode. <i>Electrochimica Acta</i> , 2020 , 329, 135170	6.7	11
390	Synthesis of mesoporous carbon with tunable pore size for supercapacitors. <i>New Journal of Chemistry</i> , 2020 , 44, 1036-1044	3.6	16
389	Flexible all-solid-state supercapacitors based on an integrated electrode of hollow N-doped carbon nanofibers embedded with graphene nanosheets. <i>Electrochimica Acta</i> , 2020 , 332, 135398	6.7	21
388	Hierarchical porous carbon monolith derived from lignin for high areal capacitance supercapacitors. 2020 , 297, 109960		42
387	Rapid synthesis of chitin-based porous carbons with high yield, high nitrogen retention, and low cost for high-rate supercapacitors. <i>International Journal of Energy Research</i> , 2020 , 44, 1167-1178	4.5	13
386	Facile preparation of N-O codoped hierarchically porous carbon from alginate particles for high performance supercapacitor. <i>Journal of Colloid and Interface Science</i> , 2020 , 563, 414-425	9.3	25

385	Metal-Free H Activation for Highly Selective Hydrogenation of Nitroaromatics Using Phosphorus-Doped Carbon Nanotubes. 2020 , 12, 654-666		30
384	Self-organized bowl-like hollow carbon submicrospheres with hierarchical mesopore-rich structure as superior electrode materials for supercapacitors. <i>Applied Surface Science</i> , 2020 , 509, 144841	6.7	6
383	One-step carbonization production of B/N co-doped carbon from polyurethane/phenolic/GO composite for supercapacitors. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 715-727	2.1	3
382	Elastic and hierarchical carbon nanofiber aerogels and their hybrids with carbon nanotubes and cobalt oxide nanoparticles for high-performance asymmetric supercapacitors. 2020 , 158, 873-884		21
381	Different strategies to simultaneously N-doping and reduce graphene oxide for electrocatalytic applications. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 857, 113695	4.1	10
380	N, S codoped activated mesoporous carbon derived from the Datura metal seed pod as active electrodes for supercapacitors. <i>Diamond and Related Materials</i> , 2020 , 102, 107687	3.5	12
379	Self-assembled reduced graphene oxide films with different thicknesses as high performance supercapacitor electrodes. <i>Journal of Energy Storage</i> , 2020 , 32, 101795	7.8	7
378	N-doped porous carbon nanotubes derived from polypyrrole for supercapacitors with high performance. 2020 , 152, 104925		6
377	One-pot and surfactant-free synthesis of N-doped mesoporous carbon spheres for the sensitive and selective screening of small biomolecules. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 873, 114462	4.1	1
376	Encapsulation of Fe/Fe ₃ O ₄ in carbon nanotubes grown over carbon nanofibers for high performance supercapacitor electrodes. 2020 , 269, 116575		3
375	Two-step synthesis of B and N co-doped porous carbon composites by microwave-assisted hydrothermal and pyrolysis process for supercapacitor application. <i>Electrochimica Acta</i> , 2020 , 360, 137010	6.7	24
374	High performance electrode of few-layer-carbon@bulk-carbon synthesized via controlling diffusion depth from liquid phase to solid phase for supercapacitors. <i>Journal of Energy Storage</i> , 2020 , 32, 101672	7.8	8
373	High surface N-/O-doped microporous carbons for stable supercapacitor and carbon dioxide sorption applications. 2020 , 308, 110526		3
372	Graphene bubble film encapsulated Si@C hollow spheres as a durable anode material for lithium storage. <i>Electrochimica Acta</i> , 2020 , 361, 137074	6.7	12
371	Nitrogen-doped nanostructured carbons: A new material horizon for water desalination by capacitive deionization. 2020 , 2, 100043		37
370	Towards new routes to increase the electrocatalytic activity for oxygen reduction reaction of n-doped graphene nanofibers. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 878, 114631	4.1	4
369	N/P Codoped Carbon Materials with an Ultrahigh Specific Surface Area and Hierarchical Porous Structure Derived from Durian Peel for High-Performance Supercapacitors. 2020 , 34, 14948-14957		2
368	"Water-in-salt" electrolyte enhanced high voltage aqueous supercapacitor with carbon electrodes derived from biomass waste-ground grain hulls.. <i>RSC Advances</i> , 2020 , 10, 35545-35556	3.7	13

367	N-doped porous carbon derived from rGO-Incorporated polyphenylenediamine composites for CO ₂ adsorption and supercapacitors. 2020 , 472, 228610		29
366	Constructing Nitrogen, Selenium Co-Doped Graphene Aerogel Electrode Materials for Synergistically Enhanced Capacitive Performance. 2020 , 7, 3311-3318		18
365	Manganesoxide with rich oxygen vacancies based on plasma modification for high performance supercapacitors. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020 , 603, 125254	5.1	3
364	Design of compressible and elastic N-doped porous carbon nanofiber aerogels as binder-free supercapacitor electrodes. 2020 , 8, 17257-17265		31
363	Insight into the Effect of ZIF-8 Particle Size on the Performance in Nanocarbon-Based Supercapacitors. 2020 , 26, 16328-16337		5
362	Hierarchically porous biochar for supercapacitor and electrochemical H ₂ O ₂ production. <i>Chemical Engineering Journal</i> , 2020 , 402, 126171	14.7	24
361	Molybdate incorporated poly(acrylic acid) electrolytes for use in quasi-solid state carbon based supercapacitors: Redox-active polychelates. <i>Electrochimica Acta</i> , 2020 , 354, 136770	6.7	11
360	A Comprehensive Review on the Synthesis and Energy Applications of Nano-structured Metal Nitrides. 2020 , 7,		16
359	Three-dimensional nitrogen doped hierarchically porous carbon aerogels with ultrahigh specific surface area for high-performance supercapacitors and flexible micro-supercapacitors. 2020 , 168, 701-709		43
358	Synthesis of Hybrid Carbon Materials Consisting of N-Doped Microporous Carbon and Amorphous Carbon Nanotubes. 2020 , 13,		3
357	Nitrogen-Rich Hierarchical Porous Carbon Prepared by Sol-Gel Assisted Inorganic Template Methods for Supercapacitors. 2020 , 3, 1165-1171		4
356	Metal-Free Carbon-Based Supercapacitors: A Comprehensive Review. 2020 , 1, 410-438		11
355	High temperature all-solid flexible supercapacitor based on novel cross-linked polybenzimidazole electrolyte. <i>Journal of Energy Storage</i> , 2020 , 32, 101901	7.8	3
354	Application of Biomass-Derived Nitrogen-Doped Carbon Aerogels in Electrocatalysis and Supercapacitors. 2020 , 7, 3695-3712		18
353	Dexterous and friendly preparation of N/P co-doping hierarchical porous carbon nanofibers via electrospun chitosan for high performance supercapacitors. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 878, 114473	4.1	6
352	Polymer-Derived Heteroatom-Doped Porous Carbon Materials. 2020 , 120, 9363-9419		196
351	Isolated Ni single atoms in nitrogen doped ultrathin porous carbon templated from porous g-C ₃ N ₄ for high-performance CO ₂ reduction. 2020 , 77, 105158		40
350	Stober synthesis of salen-formaldehyde resin polymer- and carbon spheres with high nitrogen content and application of the corresponding Mn-containing carbon spheres as efficient electrocatalysts for the oxygen reduction reaction.. <i>RSC Advances</i> , 2020 , 10, 27575-27584	3.7	3

349	Fabrication of a vanadium nitride/N-doped carbon hollow nanosphere composite as an efficient electrode material for asymmetric supercapacitors. 2020 , 2, 3865-3871		10
348	Biomass-derived porous activated carbon from <i>Syzygium cumini</i> fruit shells and <i>Chrysopogon zizanioides</i> roots for high-energy density symmetric supercapacitors. 2020 , 143, 105838		30
347	Directly synthesized nitrogen-and-oxygen-doped microporous carbons derived from a bio-derived polybenzoxazine exhibiting high-performance supercapacitance and CO ₂ uptake. 2020 , 138, 109954		35
346	Design bifunctional vanadium carbide embedded in mesoporous carbon electrode for supercapacitor and dye-sensitized solar cell. 2020 , 206, 848-854		3
345	Metal-Induced Self-Assembly Template for Controlled Growth of ZIF-8 Nanorods. 2020 , 32, 7941-7950		13
344	Electrode Materials for Supercapacitors: A Review of Recent Advances. 2020 , 10, 969		81
343	Vanadium sulfide based materials: synthesis, energy storage and conversion. 2020 , 8, 20781-20802		26
342	Synthesis of ordered mesoporous carbons by Teflon-assisted removal of silica template in tri-constituent co-assembly for supercapacitors. 2020 , 3, 339-346		1
341	"One-Step" Carbonization Activation of Garlic Seeds for Honeycomb-like Hierarchical Porous Carbon and Its High Supercapacitor Properties. 2020 , 5, 29913-29921		10
340	Construction of Dual-Mesoporous Carbon Fibers Via Coassembly for Supercapacitors. 2020 , 217, 2000365		1
339	Synthesis of nitrogen-doped porous carbon by solid grinding for supercapacitors. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 21478-21485	2.1	1
338	Transforming waste sugar solution into N-doped hierarchical porous carbon for high performance supercapacitors in aqueous electrolytes and ionic liquid. 2020 , 45, 31367-31379		5
337	A lignin dissolution-precipitation strategy for porous biomass carbon materials derived from cherry stones with excellent capacitance. 2020 , 832, 155029		15
336	Biomass-derived multi-heteroatom-doped carbon materials for high-performance solid-state symmetric supercapacitors with superior long-term cycling stability. 2020 , 26, 4141-4151		6
335	Nickel nanoparticles embedded in porous carbon nanofibers and its electrochemical properties. 2020 , 31, 305705		6
334	Targeted Synthesis of Polymer and Microporous Carbon Nanofibers via Temperature-Dependent and Molecularly-Triggered Interfacial Assembly. 2020 , 7, 2000381		2
333	Ingenious preparation of N/NiO co-doped hierarchical porous carbon nanosheets derived from chitosan nanofibers for high-performance supercapacitors. 2020 , 31, 335713		7
332	Oxygen-deficient BiFeO ₃ -NC nanoflake anodes for flexible battery-supercapacitor hybrid devices with high voltage and long-term stability. <i>Chemical Engineering Journal</i> , 2020 , 397, 125524	14.7	16

331	Multifaceted applications of cellulosic porous materials in environment, energy, and health. 2020 , 106, 101253		31
330	Nitrogen-doped microporous carbon coated on carbon nanotubes for high performance supercapacitors. 2020 , 305, 110300		14
329	A novel synthesis of controllable nitrogen-doped SnOx-ZnO supercapacitors to enhance electrochemical performance. <i>Journal of Molecular Structure</i> , 2020 , 1217, 128363	3.4	1
328	Effect of an activating agent on the physicochemical properties and supercapacitor performance of naturally nitrogen-enriched carbon derived from Albizia procera leaves. 2020 , 13, 6161-6173		26
327	Terbium metal-organic frameworks as capable electrodes for supercapacitors. <i>New Journal of Chemistry</i> , 2020 , 44, 11615-11621	3.6	4
326	Plasma Treated Nitrogen-doped Graphite Oxide by using Melamine for Supercapacitor Applications. <i>Journal of Energy Storage</i> , 2020 , 30, 101545	7.8	5
325	Iridium single-atom catalyst on nitrogen-doped carbon for formic acid oxidation synthesized using a general host-guest strategy. 2020 , 12, 764-772		207
324	3D porous oxygen-enriched graphene hydrogels with well-balanced volumetric and gravimetric performance for symmetric supercapacitors. 2020 , 55, 12214-12231		7
323	Unique carbon nanofiber@ Co/C aerogel derived bacterial cellulose embedded zeolitic imidazolate frameworks for high-performance electromagnetic interference shielding. 2020 , 167, 575-584		42
322	Synthesis, morphology, magnetic and electrochemical studies of nitrogen-doped multiwall carbon nanotubes fabricated using banded iron-formation as catalyst. 2020 , 835, 155200		9
321	Rare earth metal lanthanum-organic frameworks derived three-dimensional mesoporous interconnected carbon nanosheets for advanced energy storage. <i>Electrochimica Acta</i> , 2020 , 353, 136597 ^{6.7}		3
320	A novel path towards synthesis of nitrogen-rich porous carbon nanofibers for high performance supercapacitors. <i>Chemical Engineering Journal</i> , 2020 , 399, 125788	14.7	33
319	Orderly Arranged Bead-Chain Cu ₂ O-Mn ₃ O ₄ -NiO Ternary Nanocomposites with High Specific Capacitance for Supercapacitors. 2020 , 15, 2050082		2
318	Graphene Based Aerogels: Fundamentals and Applications as Supercapacitors. <i>Journal of Energy Storage</i> , 2020 , 30, 101549	7.8	23
317	Fast Charging Materials for High Power Applications. 2020 , 10, 2001128		48
316	Achievement of high energy carbon based supercapacitors in acid solution enabled by the balance of SSA with abundant micropores and conductivity. <i>Electrochimica Acta</i> , 2020 , 353, 136562	6.7	3
315	Nitrogen-doped porous carbon materials derived from ionic liquids as electrode for supercapacitor. 2020 , 115, 107856		10
314	RuO ₂ Nanorods on Electrospun Carbon Nanofibers for Supercapacitors. <i>ACS Applied Nano Materials</i> , 2020 , 3, 3847-3858	5.6	49

313	Cagelike CoSe@N-Doped Carbon Aerogels with Pseudocapacitive Properties as Advanced Materials for Sodium-Ion Batteries with Excellent Rate Performance and Cyclic Stability. 2020 , 12, 33621-33630		29
312	Ferrites for Electrochemical Supercapacitors. 2020 , 83-122		3
311	Oriented Synthesis of Pyridinic-N Dopant within the Highly Efficient Multifunction Carbon-Based Materials for Oxygen Transformation and Energy Storage. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 10431-10443	8.3	6
310	Ultrahigh rate capability supercapacitors based on tremella-like nitrogen and phosphorus co-doped graphene. 2020 , 4, 2704-2715		9
309	N-doped hierarchical porous hollow carbon nanofibers based on PAN/PVP@SAN structure for high performance supercapacitor. 2020 , 186, 107825		38
308	Rational design of hierarchical carbon hybrid microassemblies via reductive-catalytic chemical vapor deposition. 2020 , 167, 422-430		5
307	Honeycomb-structured carbon aerogels from nanocellulose and skin secretion of <i>Andrias davidianus</i> for highly compressible binder-free supercapacitors. 2020 , 245, 116554		20
306	Preparation of Porous Carbon Nanofibers with Tailored Porosity for Electrochemical Capacitor Electrodes. 2020 , 13,		9
305	Polyaniline functionalized reduced graphene oxide/carbon nanotube ternary nanocomposite as a supercapacitor electrode. 2020 , 56, 4003-4006		40
304	Highly efficient visible-light-induced photoactivity of carbonized polyimide aerogel for antibiotic degradation. 2020 , 31, 235707		6
303	Porous nanofiber composite membrane with 3D interpenetrating networks towards ultrafast and isotropic proton conduction. 2020 , 8, 5128-5137		9
302	Ex-situ nitrogen-doped porous carbons as electrode materials for high performance supercapacitor. <i>Journal of Colloid and Interface Science</i> , 2020 , 569, 332-345	9.3	33
301	Porous Carbons: Structure-Oriented Design and Versatile Applications. 2020 , 30, 1909265		119
300	Nitrogen and sulfur co-doped NaTi ₂ (PO ₄) ₃ /hole graphene composite as high-performance electrosorption electrodes for hybrid capacitive deionization. 2020 , 55, 6017-6029		12
299	Orderly and highly dense polyaniline nanorod arrays fenced on carbon nanofibers for all-solid-state flexible electrochemical energy storage. <i>Electrochimica Acta</i> , 2020 , 338, 135846	6.7	16
298	N-doped honeycomb-like porous carbon towards high-performance supercapacitor. 2020 , 31, 1986-1990		55
297	Improved performance and long-term stability of activated carbon doped with nitrogen for capacitive deionization. 2020 , 481, 114362		26
296	Direct synthesis of nitrogen-doped mesoporous carbons from triazine-functionalized resol for CO uptake and highly efficient removal of dyes. 2020 , 391, 122163		57

295	UZnCl ₂ -DES assisted synthesis of phenolic resin-based carbon aerogels for capacitors. 2020 , 27, 789-800	12
294	Advanced Electrode Materials Comprising of Structure-Engineered Quantum Dots for High-Performance Asymmetric Micro-Supercapacitors. 2020 , 10, 1903724	23
293	A novel RGO/N-RGO supercapacitor architecture for a wide voltage window, high energy density and long-life via voltage holding tests. 2020 , 56, 2893-2896	16
292	Facile and scalable synthesis of nitrogen-doped ordered mesoporous carbon for high performance supercapacitors. 2020 , 37, 166-175	21
291	Large-scale multirole Zn(II) programmed synthesis of ultrathin hierarchically porous carbon nanosheets. 2020 , 63, 1730-1738	6
290	Liquid-Phase Synthesis of Iron Oxide Nanostructured Materials and Their Applications. 2020 , 26, 9180-9205	4
289	CoFe Nanoparticles in Carbon Nanofibers as an Electrode for Ultra-Stable Supercapacitor. 2020 , 30, 3608-3616	7
288	Engineering the interface for promoting ionic/electronic transmission of organic flexible supercapacitors with high volumetric energy density. 2020 , 460, 228097	15
287	Energetic Cost for Being "Redox-Site-Rich" in Pseudocapacitive Energy Storage with Nickel-Aluminum Layered Double Hydroxide Materials. 2020 , 11, 3745-3753	8
286	Nitrogen-Doped Ti ₃ C ₂ MXene: Mechanism Investigation and Electrochemical Analysis. 2020 , 30, 2000852	70
285	Hierarchically Porous Biomass Carbon Derived from Natural Withered Rose Flowers as High-Performance Material for Advanced Supercapacitors. 2020 , 3, 731-737	23
284	Partially graphitic hierarchical porous carbon nanofiber for high performance supercapacitors and lithium ion batteries. 2020 , 462, 228098	27
283	Nanofiber-reinforced biocomposites. 2020 , 199-233	11
282	Application and Properties of Microporous Carbons Activated by ZnCl: Adsorption Behavior and Activation Mechanism. 2020 , 5, 9398-9407	16
281	In-situ Growth of Flower-Like MnO ₂ /Graphene Hydrogel Mesoporous Electrode Material for Supercapacitors. 2020 , 206, 87-95	11
280	Free-standing flexible graphene-based aerogel film with high energy density as an electrode for supercapacitors. 2021 , 3, 68-74	11
279	A review on electronically conducting polymers for lithium-sulfur battery and lithium-selenium battery: Progress and prospects. 2021 , 58, 523-556	19
278	Coal-derived porous activated carbon with ultrahigh specific surface area and excellent electrochemical performance for supercapacitors. 2021 , 859, 157856	7

277	Urgently reveal longly hidden toxicant in a familiar fabrication process of biomass-derived environment carbon material. 2021 , 100, 250-256		4
276	Redox active polymer metal chelates for use in flexible symmetrical supercapacitors: Cobalt-containing poly(acrylic acid) polymer electrolytes. 2021 , 55, 145-153		28
275	Carbon black-based porous sub-micron carbon fibers for flexible supercapacitors. <i>Applied Surface Science</i> , 2021 , 537, 147914	6.7	12
274	A novel in-situ preparation of N-rich spherical porous carbon as greatly enhanced material for high-performance supercapacitors. 2021 , 171, 62-71		31
273	rGO/N-porous carbon composites for enhanced CO ₂ capture and energy storage performances. 2021 , 857, 157534		10
272	Templating preparation of cannular congeries of MnO ₂ and porous spheres of carbon and their applications to high performance asymmetric supercapacitor and lithium-sulfur battery. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 610, 125740	5.1	6
271	Biomass waste derived functionalized hierarchical porous carbon with high gravimetric and volumetric capacitances for supercapacitors. 2021 , 310, 110659		54
270	Recent progress in energy storage and conversion of flexible symmetric transducers. 2021 , 9, 753-781		5
269	Straightforward Solution Polymerization Synthesis of Porous Carbon@Gold Nanoparticles Electrode for High-Performance Supercapacitor. <i>Journal of Energy Storage</i> , 2021 , 33, 102041	7.8	8
268	Preparation of hollow mesoporous carbon spheres by pyrolysis-deposition using surfactant as carbon precursor. 2021 , 484, 229274		4
267	A core-shell structured metal-organic frameworks-derived porous carbon nanowires as a superior anode for alkaline metal-ion batteries. <i>Applied Surface Science</i> , 2021 , 541, 148473	6.7	5
266	Microrecycling of waste flexible printed circuit boards for in-situ generation of O- and N-doped activated carbon with outstanding supercapacitance performance. 2021 , 167, 105221		4
265	N-doped mesoporous carbon nanosheets for supercapacitors with high performance. <i>Diamond and Related Materials</i> , 2021 , 111, 108206	3.5	7
264	Sequential doping of nitrogen and oxygen in single-walled carbon nanohorns for use as supercapacitor electrodes. 2021 , 310, 110595		2
263	High-performance Bi ₂ O ₃ -NC anodes through constructing carbon shells and oxygen vacancies for flexible battery-supercapacitor hybrid devices. 2021 , 3, 593-603		3
262	Facile Preparation of Low-Cost and Cross-Linked Carbon Nanofibers Derived from PAN/PMMA/Lignin as Supercapacitor Electrodes. 2021 , 35, 796-805		14
261	Design of hollow carbon-based materials derived from metal-organic frameworks for electrocatalysis and electrochemical energy storage. 2021 , 9, 3880-3917		41
260	One-step carbonization of a nickel-containing nitrogen-doped porous carbon material for electrochemical supercapacitors. <i>New Journal of Chemistry</i> , 2021 , 45, 1822-1833	3.6	3

259	Defect-rich N-doped porous carbon derived from alginate by HNO ₃ etching combined with a hard template method for high-performance supercapacitors. 2021 , 260, 124121		9
258	Construction of high-performance electrode materials of NiCoO nanoparticles encapsulated in ultrathin N-doped carbon nanosheets for supercapacitors. 2021 , 50, 1097-1105		3
257	One-Step Activation of Anode Materials from Spent Lithium-Ion Batteries as High-Performance Electrodes for Capacitive Deionization. 2021 , 8, 370-376		1
256	In-situ formation of mesoporous SnO ₂ @C nanocomposite electrode for supercapacitors. <i>Electrochimica Acta</i> , 2021 , 365, 137284	6.7	13
255	Boehmite Nanofiber/Polymethylsilsesquioxane Composite Aerogels: Synthesis, Analysis, and Thermal Conductivity Control via Compression Processing. 2021 , 94, 70-75		1
254	Nanofibers modified through carbon and nitrogen co-doping and phase transformation for application in pseudocapacitors. <i>International Journal of Energy Research</i> , 2021 , 45, 2343-2352	4.5	0
253	Green Precursors and Soft Templating for Printing Porous Carbon-Based Micro-supercapacitors. 2021 , 27, 1356-1363		4
252	MOF(ZM)/Potassium Citrate-Derived Composite Porous Carbon and Its Electrochemical Properties. 2021 , 09, 462-479		
251	Electrode Materials for Electrochemical Double-Layer Capacitors. 2021 ,		
250	Untangling the respective effects of heteroatom-doped carbon materials in batteries, supercapacitors and the ORR to design high performance materials. 2021 , 14, 2036-2089		86
249	Carbon nanoflakes and nanofibers. 2021 , 399-459		
248	Room Temperature Gas Sensor Based on Reduced Graphene Oxide for Environmental Monitoring. 2021 , 3243-3261		
247	Laser-Assisted Printing of Electrodes Using Metal-Organic Frameworks for Micro-Supercapacitors. 2021 , 31, 2009057		30
246	Overview of Electrode Materials Progressed for Application in Electrochemical Supercapacitors: An Update. 2021 , 33, 1039-1050		0
245	Fabrication of chlorine nitrogen co-doped carbon nanomaterials by an injection catalytic vapor deposition method. 2021 , 8, 015007		1
244	Adsorbents based on nanofibers. 2021 , 33, 389-443		2
243	Nanoporous nitrogen-doped graphitic carbon hollow spheres with enhanced electrochemical properties.		0
242	Energetic carbon precursors for micro-supercapacitor printing. <i>Materials Advances</i> ,	3.3	0

241	Synthesis of highly porous activated carbon nanofibers derived from bamboo waste materials for application in supercapacitor. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 7681-7691	2.1	7
240	A Short Review on the Electrochemical Performance of Hierarchical and Nitrogen-Doped Activated Biocarbon-Based Electrodes for Supercapacitors. 2021 , 11,		17
239	Electrode response of NaFeTiO ₄ in aqueous supercapacitor cells. 2021 , 27, 1709-1721		0
238	Sustainable Bio-Energy Production in Microbial Fuel Cell Using MnO ₂ Nanoparticle-Decorated Hollow Carbon Nanofibers as Active Cathode Materials. 2021 , 16, 127-135		3
237	Enhanced electrochemical performance of Si-carbon materials from Larch waste by filtration liquefaction residue process. <i>Electrochimica Acta</i> , 2021 , 370, 137813	6.7	1
236	Investigation on the Mass Distribution and Chemical Compositions of Various Ionic Liquids-Extracted Coal Fragments and Their Effects on the Electrochemical Performance of Coal-Derived Carbon Nanofibers (CCNFs). 2021 , 11,		0
235	One-pot emulsion templating for simultaneous hydrothermal carbonization and hydrogel synthesis: porous structures, nitrogen contents and activation. 2021 , 70, 1404-1412		4
234	Biomass derived phosphorous containing porous carbon material for hydrogen storage and high-performance supercapacitor applications. <i>Journal of Energy Storage</i> , 2021 , 35, 102185	7.8	17
233	Thin metal film on porous carbon as a medium for electrochemical energy storage. 2021 , 489, 229522		9
232	Nano-channel carbon fiber film with enhanced mechanical and electrochemical properties by centrifuged electrospinning for all-solid-state flexible symmetric supercapacitors. 2021 , 316, 110972		5
231	Designing an Interlayer-Widened MoS ₂ -Packed Nitrogen-Rich Carbon Nanotube Core/Shell Structure for Redox-Mediated Quasi-Solid-State Supercapacitors. 2021 , 4, 2218-2230		7
230	Promising nature-based activated carbon derived from flowers of <i>Borassus flabellifer</i> for supercapacitor applications. 1		1
229	Preventing Graphene from Restacking via Bioinspired Chemical Inserts: Toward a Superior 2D Micro-supercapacitor Electrode. <i>ACS Applied Nano Materials</i> , 2021 , 4, 4964-4973	5.6	1
228	A facile soft-template synthetic approach of surface integrated nitrogen-rich carbon nanospheres for light-weight supercapacitors. <i>Journal of Molecular Structure</i> , 2021 , 1229, 129788	3.4	2
227	N-Doped Porous Carbon Derived from Solvent-Free Synthesis of Cross-Linked Triazine Polymers for Simultaneously Achieving CO Capture and Supercapacitors. 2021 , 27, 7908-7914		8
226	N-doped carbon/V ₂ O ₃ microfibers as high-rate and ultralong-life cathode for rechargeable aqueous zinc-ion batteries. 2021 , 861, 158560		16
225	Bamboo-like N/S-codoped carbon nanotube aerogels for high-power and high-energy supercapacitors. 2021 , 861, 157946		8
224	H ₃ PO ₄ -Assisted Synthesis of Apricot Shell Lignin-Based Activated Carbon for Capacitors: Understanding the Pore Structure/Electrochemical Performance Relationship. 2021 , 35, 8303-8312		11

223	Polyacrylonitrile/polyvinyl alcohol-based porous carbon nanofiber electrodes for supercapacitor applications. <i>International Journal of Energy Research</i> , 2021 , 45, 16497-16510	4.5	3
222	High energy density and extremely stable supercapacitors based on carbon aerogels with 100% capacitance retention up to 65,000 cycles. 2021 , 118,		6
221	Green preparation of hierarchical porous carbon with tunable pore size for supercapacitors. 2021 , 27, 3077-3087		2
220	Two-dimensional Conducting Metal-Organic Frameworks Enabled Energy Storage Devices. 2021 , 37, 396-416		21
219	Hazardous Petroleum Sludge-Derived Nitrogen and Oxygen Co-Doped Carbon Material with Hierarchical Porous Structure for High-Performance All-Solid-State Supercapacitors. 2021 , 14,		0
218	A Review of Electrospun Carbon Nanofiber-Based Negative Electrode Materials for Supercapacitors. 2021 , 2, 236-250		5
217	Preparation and characterization of N-doped porous carbon derived from chlorinated polypropylene with controllable nitrogen content and specific surface area. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 616, 126332	5.1	
216	Facile Fabrication of Flexible Carbon Nanofiber Electrodes with Both High Packing Density and Capacity for Li-Ion Batteries. 2021 , 2, 2100020		1
215	Electrodes for Flexible Self-Healable Supercapacitors. 2021 , 461-483		
214	Nitrogen and sulfur dual-doped hierarchical porous carbon derived from bacterial cellulose for high performance Supercapacitor. <i>Diamond and Related Materials</i> , 2021 , 116, 108447	3.5	8
213	N-doped hollow carbon spheres with controllable shell numbers for high-performance electrical double-layer capacitors. 2021 , 493, 229679		8
212	Silica-Confined Activation for Biomass-Derived Porous Carbon Materials for High-Performance Supercapacitors. 2021 , 8, 2028-2033		0
211	Gelatin-Derived 1D Carbon Nanofiber Architecture with Simultaneous Decoration of Single Fe-N Sites and Fe/Fe C Nanoparticles for Efficient Oxygen Reduction. 2021 , 27, 10987-10997		2
210	Highly defective, doping-free graphene framework: A rapid one-step formation avenue. 2021 , 497, 229881		2
209	Magnetic Carbon Nanofibers Prepared with Ni and Ni/Graphitic Carbon Nanoparticle Catalysts for Glycine Detection Using Surface-Enhanced Raman Spectroscopy. <i>ACS Applied Nano Materials</i> , 2021 , 4, 6594-6608	5.6	2
208	Novel synthesis route for the preparation of mesoporous nitrogen-doped carbons from forestry wastes for supercapacitors. 2021 , 24, 101132		2
207	Multiwall carbon nanotubes derived from plastic packaging waste as a high-performance electrode material for supercapacitors. <i>International Journal of Energy Research</i> , 2021 , 45, 19611	4.5	5
206	Differentiating between the effects of nitrogen plasma and hydrothermal treatment on electrospun carbon fibers used as supercapacitor electrodes. <i>Electrochimica Acta</i> , 2021 , 381, 138255	6.7	1

205	Promoting the energy density of lithium-ion capacitor by coupling the pore-size and nitrogen content in capacitive carbon cathode. 2021 , 498, 229912		13
204	High-Performance Joule Heating and Electromagnetic Shielding Properties of Anisotropic Carbon Scaffolds. 2021 , 13, 29101-29112		12
203	Investigation of H ₂ SO ₄ and KOH aqueous electrolytes on the electrochemical performance of activated carbon derived from areca catechu husk. 2021 , 1940, 012033		1
202	Template-free graphitic carbon nitride nanosheets coated with polyaniline nanofibers as an electrode material for supercapacitor applications. 2021 , 171, 1246-1256		9
201	Exploring the impact of MoS ₂ on the performance of the planar solid micro-supercapacitor. 2021 , 265, 124490		0
200	EMnO ₂ Nanowires and Amino-Modified Reduced Graphene Oxide Hybrid Films for Constructing the Flexible High-Performance Symmetrical Supercapacitors. 2021 , 16, 2150080		
199	Facile fabrication 1D/2D/3D Co ₃ O ₄ nanostructure in hydrothermal synthesis for enhanced supercapacitor performance. <i>Journal of Energy Storage</i> , 2021 , 38, 102586	7.8	4
198	Transition metal nitride electrodes as future energy storage devices: A review. 2021 , 27, 102363		9
197	Conformal Coating of a Carbon Film on 3D Hosts toward Stable Lithium Anodes. 2021 , 4, 7288-7297		1
196	A novel approach to synthesize porous graphene sheets by exploring KOH as pore inducing agent as well as a catalyst for supercapacitors with ultra-fast rate capability. 2021 , 172, 502-513		11
195	Carbon Quantum Dots for Energy Applications: A Review. <i>ACS Applied Nano Materials</i> , 2021 , 4, 6515-6544	4.6	25
194	High performance of activated carbons prepared from mangosteen (<i>Garcinia mangostana</i>) peels using the hydrothermal process. <i>Journal of Energy Storage</i> , 2021 , 39, 102577	7.8	2
193	Co-activation Pore Engineering of Polyphthalocyanine-Derived Carbon Nanosheets for Supercapacitors in Organic Electrolytes. 2021 , 4, 7751-7758		1
192	Litchi-like porous carbon nanospheres prepared from crosslinked polymer precursors for supercapacitors and electromagnetic wave absorption. <i>Chemical Engineering Journal</i> , 2021 , 416, 128926	14.7	11
191	Recovering renewable carbon materials from automotive shredder residue (ASR) for micro-supercapacitor electrodes. 2021 , 304, 127131		8
190	Soybean root-derived N, O co-doped hierarchical porous carbon for supercapacitors. <i>Applied Surface Science</i> , 2021 , 555, 149726	6.7	21
189	One-step solvothermal method to obtain flower-like NiCoMn Hydroxides for Super Capacitance Performance. 2021 , 299, 122173		0
188	Naturally nitrogen-doped porous carbon derived from waste crab shell as anode material for high performance sodium-ion battery. 2021 , 157, 105215		2

187	General, Metal-free Synthesis of Carbon Nanofiber Assemblies from Plant Oils.		0
186	Self-organized hierarchically porous carbon coated on carbon cloth for high-performance freestanding supercapacitor electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 895, 115456	4.1	8
185	N-doped mesoporous thin carbon tubes obtained by exhaust directional deposition for supercapacitor. 2021 , 240, 116651		9
184	Synergistic approach of high-performance N-NiCo/PC environment benign electrode material for energy storage device. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 22245-22255	2.1	0
183	Template-free assembly of 2D-electrolytes into nanofibres. 2021 , 21, 100542		1
182	Rich Oxygen-Containing Carbon Microparticles Derived from Self-Assembled Polyimides for High-Performance Supercapacitors. 2021 , 9, 2100305		0
181	Hierarchical and hollow boron/nitrogen co-doped yolk-shell mesoporous carbon nanospheres attached to reduced graphene oxide with high sensing performance for the simultaneous detection of xanthine and guanosine. 2021 , 343, 130068		14
180	Advanced carbon materials with different spatial dimensions for supercapacitors. 2021 , 3, 241-267		5
179	High performance supercapacitor electrodes based on B/N Co-doped biomass porous carbon materials by KOH activation and hydrothermal treatment. 2021 , 46, 31927-31937		10
178	Tin derived antimony/nitrogen-doped porous carbon (Sb/NPC) composite for electrochemical sensing of albumin from hepatocellular carcinoma patients. 2021 , 188, 338		0
177	General, Metal-free Synthesis of Carbon Nanofiber Assemblies from Plant Oils. 2021 , 60, 24257-24265		6
176	Multi-Doped Interconnected Carbon Nanospheres for High-Performance Supercapacitor. 2022 , 19,		
175	Nitrogen/sulfur codoped FCC-slurry-based porous carbon materials in symmetric supercapacitors. <i>Applied Surface Science</i> , 2021 , 561, 150063	6.7	7
174	Hierarchical Co ₃ O ₄ decorated nitrogen-doped graphene oxide nanosheets for energy storage and gas sensing applications. 2021 , 101, 253-261		7
173	High-Efficiency Monolithic Photosupercapacitors: Smart Integration of a Perovskite Solar Cell with a Mesoporous Carbon Double-Layer Capacitor. 2021 , 5, 2100662		1
172	Tailoring the supercapacitive behaviors of Co/Zn-ZIF derived nanoporous carbon via incorporating transition metal species: A hybrid experimental-computational exploration. <i>Chemical Engineering Journal</i> , 2021 , 419, 129636	14.7	11
171	Combined effect of nitrogen-doped functional groups and porosity of porous carbons on electrochemical performance of supercapacitors. <i>Scientific Reports</i> , 2021 , 11, 18387	4.9	5
170	Nitrogen-doped hollow carbon nanospheres as highly efficient electrocatalysts for detection of triclosan. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 106022	6.8	2

169	Co1-xS/N-doped graphene foam composite as efficient bifunctional electrocatalysts for the evolution reaction of oxygen and hydrogen. <i>Electrochimica Acta</i> , 2021 , 393, 139081	6.7	1
168	N, S-doped silicon oxycarbide-driven carbon/amorphous ball-flower-like NiO as high performance electrode in asymmetric supercapacitors. 2021 , 47, 27833-27842		2
167	A printed highly stretchable supercapacitor by a combination of carbon ink and polymer network. 2021 , 49, 101459		1
166	2-amino-6-methylpyridine based salt converted to carbon electrode material for supercapacitive application. <i>Journal of Molecular Structure</i> , 2021 , 1244, 130895	3.4	
165	One-component nano-metal-organic frameworks with superior multienzyme-mimic activities for 1,4-dihydropyridine metabolism. <i>Journal of Colloid and Interface Science</i> , 2022 , 605, 214-222	9.3	2
164	Binary doping of nitrogen and phosphorus into porous carbon: A novel di-functional material for enhancing CO2 capture and super-capacitance. 2022 , 99, 73-81		8
163	Nitrogen/phosphorus co-doped porous carbon materials for supercapacitor electrodes. <i>New Journal of Chemistry</i> , 2021 , 45, 7239-7246	3.6	1
162	Facile synthesis of nitrogen and oxygen co-doped hierarchical porous carbon materials for high performance super capacitors. 2021 , 28, 803-812		2
161	Carbon aerogels for environmental remediation. 2021 , 217-243		1
160	Recent progress in emerging metal and covalent organic frameworks for electrochemical and functional capacitors. 2021 , 9, 8832-8869		16
159	Covalent organic frameworks (COFs) for electrochemical applications. 2021 , 50, 6871-6913		104
158	Room Temperature Gas Sensor Based on Reduce Graphene Oxide for Environmental Monitoring. 2020 , 1-19		1
157	Characteristics of Carbon Nanofibers. 2020 , 215-245		23
156	Activated Carbon as Electrode Materials for Supercapacitors. 2020 , 113-144		16
155	Carbon Nanofiber as Electrode Materials for Supercapacitors. 2020 , 179-200		16
154	Application of Nanofibers in Supercapacitors. 2014 , 163-181		6
153	Carbon aerogels with modified pore structures as electrode materials for supercapacitors. 2017 , 21, 3545-3555		11
152	Molten-salt-templated fabrication of N, S co-doped hierarchically porous carbons for high-performance supercapacitors. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 10113-10122 ⁴		11

151	Fe ₂ O ₃ /hemp straw-based porous carbon composite for supercapacitor electrode materials. 2020 , 26, 4039-4051		16
150	Gram-scale production of B, N co-doped graphene-like carbon for high performance supercapacitor electrodes. <i>Applied Surface Science</i> , 2018 , 435, 937-944	6.7	51
149	Synthesis of dense but microporous graphene by Na ⁺ ions intercalation toward high volumetric performance supercapacitors. <i>Applied Surface Science</i> , 2020 , 526, 146728	6.7	4
148	Locking metal sulfide nanoparticles in interconnected porous carbon nanofibers with protective macro-porous skin as freestanding anodes for lithium ion batteries. <i>Chemical Engineering Journal</i> , 2020 , 397, 125271	14.7	10
147	A polypyrrole-coated acetylene black/sulfur composite cathode material for lithium-sulfur batteries. 2018 , 27, 813-819		41
146	Pinus nigra pine derived hierarchical carbon foam for high performance supercapacitors. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 863, 114053	4.1	13
145	Carbon-Based Fibers for Advanced Electrochemical Energy Storage Devices. 2020 , 120, 2811-2878		156
144	Carbon Nanofibers Cross-Linked and Decorated with Graphene Quantum Dots as Binder-Free Electrodes for Flexible Supercapacitors. 2021 , 125, 143-151		3
143	Shape-Shifting via Salt Crystallization: Conversion of a Nanostructured Polymer into a Site-Selective Nitrogen-Doped Carbon Sheet with Enhanced Supercapacitive Performance. 2020 , 3, 5984-5992		5
142	Sulfur Doping: Unique Strategy To Improve the Supercapacitive Performance of Carbon Nano-onions. 2019 , 11, 8040-8050		53
141	Dual-Doping of Sulfur on Mesoporous Carbon as a Cathode for the Oxygen Reduction Reaction and Lithium-Sulfur Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 8537-8548	8.3	14
140	CHAPTER 6: Porous Hydrothermal Carbon Materials, Nanoparticles, Hybrids and Composites. 2015 , 156-190		2
139	Editors' Choice Review Activated Carbon Electrode Design: Engineering Tradeoff with Respect to Capacitive Deionization Performance. 2020 , 167, 143501		25
138	Biomass-derived nitrogen-doped porous carbons (NPC) and NPC/ polyaniline composites as high performance supercapacitor materials. 2018 ,		59
137	Nitrogen, Phosphorus and Sulfur Co-Doped Pyrolyzed Bacterial Cellulose Nanofibers for Supercapacitors. 2020 , 10,		4
136	Fabrication of Graphene Supercapacitors for Flexible Energy Storage. 2017 , 27, 248-254		3
135	MnO ₂ /carbon nanocomposite based on silkworm excrement for high-performance supercapacitors. 2021 , 28, 1735-1744		2
134	Superior capacitive storage behavior of porous carbon electrode with high mass loading. 2021 ,		1

133	Synchronous-ultrahigh conductive-reactive N-atoms doping strategy of carbon nanofibers networks for high-performance flexible energy storage. 2022 , 44, 250-262		6
132	Waste tire-derived porous nitrogen-doped carbon black as an electrode material for supercapacitors. 2021 , 24, 100535		0
131	Boosting microbial electrocatalysis via localized high electron shuttles concentration by monolithic electrode based on nanostructured nitrogen-doped carbon microtubes. 2021 , 514, 230557		0
130	Microwave synthesis of binder-free melamine sponge-derived NiSe ₂ electrodes for asymmetric supercapacitor. 2021 , 372, 115787		0
129	Pyrolytic carbon black-derived porous carbon with spherical skeleton as recovered and enduring electrode material for supercapacitor. <i>Journal of Energy Storage</i> , 2021 , 44, 103372	7.8	3
128	CHAPTER 9:Hierarchical Nanostructures: Application to Supercapacitors. 2014 , 204-229		
127	Diverse Properties of Carbon-Substituted Silicenes. 2020 , 8,		
126	In-situ design of porous vanadium nitride@carbon nanobelts: a promising material for high-performance asymmetric supercapacitors. <i>Applied Surface Science</i> , 2021 , 151734	6.7	8
125	Cobalt embedded in porous carbon fiber membranes for high-performance lithium-sulfur batteries. 2021 ,		4
124	Layered nanoreactor assisted to produce B-doped and P-doped 3D carbon nanostructures for supercapacitor electrodes. <i>Journal of Energy Storage</i> , 2021 , 44, 103514	7.8	2
123	Flexible and self-standing polyimide/lignin-derived carbon nanofibers for high-performance supercapacitor electrode material applications. 2022 , 275, 115530		3
122	SWCNTs/phthalocyanine polymer composite derived nitrogen self-doped graphene-like carbon for high-performance supercapacitors electrodes. 2022 , 277, 125433		0
121	One-Step Hydrothermal Synthesis of Nitrogen-Doped Reduced Graphene Oxide/Hausmannite Manganese Oxide for Symmetric and Asymmetric Pseudocapacitors. 2021 , 6, 31421-31434		2
120	Black Titania; Novel researches in Synthesis and Applications. 2021 , 109092		
119	Sustainable Lignin-Derived Hierarchical Porous Carbon for Supercapacitors: A Novel Approach for Holding Electrochemical Attraction Natural Texture Property of Precursor.. 2021 , 6, 33171-33179		3
118	High-performance asymmetric supercapacitor achieved by CoS ₂ nanoparticles decorated polyaniline functionalized SBA-15-derived mesoporous nitrogen-doped carbon with rod-like architectures. 2021 , 162773		1
117	Nitrogen-doped porous carbon microsphere with high surface area for supercapacitors and capacitive deionization. 2022 , 29, 415		0
116	Hydrothermal, KOH-assisted synthesis of lignin-derived porous carbon for supercapacitors: value-added of lignin and constructing texture properties/specific capacitance relationships. 2022 , 16, 570-580		0

115	A bubble-templated approach to holey N/S-codoped carbon nanosheet aerogels with honeycomb-like structure for supercapacitors. <i>Electrochimica Acta</i> , 2022 , 404, 139741	6.7	2
114	Nitrogen rich hollow carbon spheres with well-developed mesoporous: An efficient adsorbent for tetracycline removal. <i>Journal of Environmental Chemical Engineering</i> , 2022 , 10, 107043	6.8	
113	Surface engineering of reclaimed carbon fiber (RCF) electrode for superimposed supercapacitor performance. <i>Journal of Energy Storage</i> , 2022 , 46, 103786	7.8	0
112	Controlled synthesis of carbon spheres via the modulation of the hydrophobic length of fatty aldehyde for supercapacitors. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022 , 636, 128064	5.1	0
111	Facile method to produce sub-1 μ m pore-rich carbon from biomass wastes for high performance supercapacitors.. <i>Journal of Colloid and Interface Science</i> , 2021 , 612, 213-222	9.3	2
110	A sustainable one-step strategy for highly graphitized capacitive carbons with hierarchical micro-meso-macro porosity.		2
109	CoFe ₂ O ₄ Nanoparticle Decorated Hierarchical Biomass Derived Porous Carbon Based Nanocomposites for High-Performance All-Solid-State Flexible Asymmetric Supercapacitor Devices.		2
108	Preparation of hierarchically porous carbons with enhanced porosity and energy storage capacity through an internal phase-external phase coefficient HIPE templating. 2022 , 330, 111614		0
107	Oxides free materials for asymmetric capacitor. 2022 , 95-113		
106	Highly porous carbon nanoparticles from biowaste for wastewater treatment. 2022 , 339-361		0
105	Structural design and mechanism analysis of hierarchical porous carbon fibers for advanced energy and environmental applications. 2021 , 10, 10-49		1
104	Cellulose Nanocrystals in Sustainable Energy Systems. 2100395		5
103	Valorization of lignin: Application of lignin-derived activated carbon in capacitors and investigation of its textural properties and electrochemical performance. <i>Diamond and Related Materials</i> , 2022 , 122, 108791	3.5	2
102	Hydrogen bonds to balance mechanical and adhesive properties of pectin/polyacrylic acid blends as efficient binders for cathode in lithium-sulfur battery. 2022 , 31, 103211		0
101	Heteroatom-doped porous carbon microspheres derived from ionic liquid-lignin solution for high performance supercapacitors.. <i>Journal of Colloid and Interface Science</i> , 2022 , 614, 566-573	9.3	4
100	Facile fabrication of oxygen and nitrogen co-doped 3D-carbon nanoarrays for high performance environmentally friendly wireless charging integration supercapacitor. <i>Journal of Energy Storage</i> , 2022 , 49, 104082	7.8	1
99	Carbon and carbon paste electrodes. 2022 , 79-114		1
98	Preparation of N/O-codoped quinoline pitch-based porous carbons for high-quality supercapacitor electrode. <i>New Journal of Chemistry</i> ,	3.6	0

97	SnO ₂ nanosheets grown on in-situ formed N-doped branched TiO ₂ /C nanofibers as binder-free anodes for sodium-ion storage. <i>Electrochimica Acta</i> , 2022 , 411, 140049	6.7	2
96	Facile synthesis of phosphorus/oxygen co-doped hierarchically porous carbon nanosheets using a layered nanoreactor and moderate porosity for high-performance supercapacitor electrodes. <i>Journal of Materials Science: Materials in Electronics</i> , 2022 , 33, 5501	2.1	0
95	Biowaste-derived electrode and electrolyte materials for flexible supercapacitors. <i>Chemical Engineering Journal</i> , 2022 , 435, 135058	14.7	5
94	N-doped porous carbons derived from Zn-porphyrin-MOF.. <i>RSC Advances</i> , 2022 , 12, 5979-5989	3.7	0
93	Ionic liquid surfactant-derived carbon micro/nanostructures toward application of supercapacitors. <i>Inorganic Chemistry Frontiers</i> ,	6.8	1
92	Characterization and capacitive performance assessment of potato peels derived salt-induced porous carbons. <i>Biomass Conversion and Biorefinery</i> , 1	2.3	0
91	Tailoring Mesopores and Nitrogen Groups of Carbon Nanofibers for Polysulfide Entrapment in Lithium-Sulfur Batteries.. <i>Polymers</i> , 2022 , 14,	4.5	
90	High-performance freestanding supercapacitor electrode based on polypyrrole coated nickel cobalt sulfide nanostructures.. <i>Scientific Reports</i> , 2022 , 12, 4628	4.9	5
89	Polymer Derived Carbon Nanostructure Electrodes for Solid-State Supercapacitor. <i>ECS Journal of Solid State Science and Technology</i> ,	2	0
88	Recent progress on supercapacitive performance of agrowaste fibers: a review. <i>Critical Reviews in Solid State and Materials Sciences</i> , 1-43	10.1	1
87	Enhancing the mechanical properties of fluororubber through the formation of crosslinked networks with aminated multi-walled carbon nanotubes and reduced graphene oxides. <i>Composites Part C: Open Access</i> , 2022 , 7, 100245	1.6	0
86	Screen-printing of core-shell MnO@C nanocubes based sensing microchip performing ultrasensitive recognition of allura red.. <i>Food and Chemical Toxicology</i> , 2022 , 112908	4.7	1
85	Effect of the second heat treatment on the porosity and conductivity of a template-synthesized carbon material for use in supercapacitor electrodes. <i>Solid State Sciences</i> , 2022 , 128, 106871	3.4	1
84	Methylene blue enhanced bamboo activated carbon as high performance supercapacitor electrode materials. <i>Industrial Crops and Products</i> , 2022 , 180, 114786	5.9	0
83	Oxygenated N-doped porous carbon derived from ammonium alginate: Facile synthesis and superior electrochemical performance for supercapacitor. <i>Journal of Energy Storage</i> , 2022 , 51, 104342	7.8	0
82	Schiff-bases for sustainable battery and supercapacitor electrodes. <i>Exploration</i> , 2021 , 1, 20210128		2
81	Effective and Selective Removal of Phosphate from Wastewater Using Guanidinium-Functionalized Polyelectrolyte-Modified Electrodes in Capacitive Deionization. <i>ACS ES&T Water</i> , 2022 , 2, 237-246		1
80	Flexible Solid-State Supercapacitor with High Energy Density Enabled by N/B/O-Codoped Porous Carbon Nanoparticles and Imidazolium-Based Gel Polymer Electrolyte. <i>ACS Sustainable Chemistry and Engineering</i> ,	8.3	0

79	Macroporous nitrogen-containing carbon for electrochemical capacitors. <i>Electrochimica Acta</i> , 2022 , 418, 140370	6.7	0
78	N-Doped Two-Dimensional Carbon Nanosheets with Micropore-Dominant Porosity for High-Performance Supercapacitor. <i>SSRN Electronic Journal</i> ,	1	
77	Structures, properties, and applications of nitrogen-doped graphene. <i>Theoretical and Computational Chemistry</i> , 2022 , 211-248		
76	Oxygen vacancies-rich manganese oxide with flower-like nanosheets for high performance supercapacitors. <i>Electroanalysis</i> ,	3	
75	Molecular structure effects of mesophase pitch and isotropic pitch on morphology and properties of carbon nanofibers by electrospinning. <i>Diamond and Related Materials</i> , 2022 , 109079	3.5	0
74	Electrolyte as a panacea to contemporary scientific world of super-capacitive energy: A condense report. <i>Journal of Energy Storage</i> , 2022 , 52, 104740	7.8	3
73	Ultrafast and selective adsorption of anionic dyes with amine-functionalized glucose-based adsorbents. <i>Journal of Molecular Structure</i> , 2022 , 1263, 133150	3.4	0
72	Facile synthesis of porphyrin-MOFs with high photo-Fenton activity to efficiently degrade ciprofloxacin.. <i>Journal of Colloid and Interface Science</i> , 2022 , 622, 690-699	9.3	0
71	Supercapacitance in graphene oxide materials modified with tetrapyrrole dyes: A mechanistic study. <i>Nanoscale</i> ,	7.7	0
70	Sequential Infiltration Synthesis for High-Precision Fabrication of Applied Ceramic Fibers with Designed Nanostructures-Nanowires, Nanobelts, and CoreShell Fibers. <i>ACS Applied Nano Materials</i>	5.6	2
69	Chemical co-activated modified small mesoporous carbon derived from nature anthracite toward enhanced supercapacitive behaviors. <i>Journal of Electroanalytical Chemistry</i> , 2022 , 116417	4.1	
68	Symmetric supercapacitor devices based on pristine g-C3N4 mesoporous nanosheets with exceptional stability and wide operating voltage window. <i>Journal of Energy Storage</i> , 2022 , 52, 104850	7.8	1
67	Self-Affinity of Aunps on Polyethyleneimine (Pei) Functionalized Polypyrrole-Derived Carbon Nanotubes Hybrid Nanocomposite: A Novel Interference-Free Electrochemical Sensing Platform for Caffeine Detection. <i>SSRN Electronic Journal</i> ,	1	
66	Hierarchical nanoarchitectonics of ordered mesoporous carbon from lignin for high-performance supercapacitors. <i>International Journal of Biological Macromolecules</i> , 2022 ,	7.9	0
65	Electrochemical properties of modified poly(4-aminothiophenol)-Zn-Ni MOF-reduced graphene oxide nanocomposite for high-performance supercapacitors. <i>Fuel</i> , 2022 , 324, 124724	7.1	0
64	Applications, drawbacks, and future scope of nanoparticle-based polymer composites. 2022 , 243-275		1
63	Role of bacterial nanocellulose polymer composites on the adsorption of organic dyes from wastewater. 2022 , 665-680		
62	N-Doped Carbon-Coated Cu2O Nanowire Arrays on Copper Foam for Rapid and Stable Water Disinfection. <i>Journal of Colloid and Interface Science</i> , 2022 ,	9.3	0

61	Electrochemical Performance of Honeycomb Graphene Prepared from Acidic Graphene Oxide Via a Chemical Expansion method. <i>Journal of Electroanalytical Chemistry</i> , 2022 , 116545	4.1	0
60	Cross-linked copolymer derived nitrogen-doped hierarchical porous carbon with high-performance lithium storage capability. <i>Materials Advances</i> ,	3.3	
59	Nitrogen optimized highly stable carbon for increasing the efficiency of supercapacitors. <i>International Journal of Energy Research</i> ,	4.5	0
58	Supercapacitor performance of nitrogen doped graphene synthesized via DMF assisted single-step solvothermal method. <i>FlatChem</i> , 2022 , 34, 100400	5.1	2
57	Electrodeposited cobalt sulfide nanolayer fenced nickel-copper carbonate hydroxide nanowires as an electrode for hybrid supercapacitors: A wind turbine-driven energy storage system for portable applications. <i>Applied Surface Science</i> , 2022 , 154288	6.7	0
56	Catalytic oxidation of acetaminophen through pristine and surface-modified nitrogen-doped carbon-nanotube-catalyzed peroxydisulfate activation. <i>Journal of Environmental Chemical Engineering</i> , 2022 , 108257	6.8	1
55	Facile preparation of nitrogen-doped hierarchical porous carbon derived from lignin with KCl for supercapacitors. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022 , 651, 129622	5.1	0
54	Recent progress on biomass waste derived activated carbon electrode materials for supercapacitors applications: A review. <i>Journal of Energy Storage</i> , 2022 , 54, 105290	7.8	5
53	Efficient and reductive removal of bromate using a novel and stable nanoscale zero-valent iron embedded in N-doped carbon derived from metal-organic frameworks. <i>Chemosphere</i> , 2022 , 306, 135503 ^{8.4}		0
52	Structural and Electrochemical Properties of KOH-Activated Carbon Soot Derived from Sinapis alba (Yellow Mustard Oil) for EDLC Application.		0
51	A New Figure of Merit for Solar Charging Systems: Case Study for Monolithically Integrated Photosupercapacitors Composed of a Large-Area Organic Solar Cell and a Carbon Double-Layer Capacitor. 2200614		0
50	A comprehensive review of capacitive deionization technology with biochar-based electrodes: Biochar-based electrode preparation, deionization mechanism and applications. 2022 , 307, 136024		0
49	Role of co-existing anions in non-radical and radical processes of carbocatalyzed persulfate activation for acetaminophen degradation.		0
48	Anchoring high-mass iodine to nanoporous carbon with large-volume micropores and rich pyridine-N sites for high-energy-density and long-life Zn-I ₂ aqueous battery.		0
47	Nanoemulsion Technique for the Syntheses of N-Doped Porous Carbon Nanospheres and Their Application in Energy Storage Devices. 2022 , 36, 12285-12298		0
46	Pd-Decorated Hierarchically Porous Carbon Nanofibers for Enhanced Selective Hydrogenation of Phenol. 2022 , 61, 13416-13430		0
45	Engineering Oxygen Vacancies on Mixed-Valent Mesoporous γ -MnO ₂ for High-Performance Asymmetric Supercapacitors.		0
44	Preparation of N-doped porous carbon nanofibers derived from their phenolic-resin-based analogues for high performance supercapacitor. 2022 , 116869		0

43	Self-affinity of AuNPs on polyethyleneimine (PEI) functionalized polypyrrole-derived carbon nanotubes hybrid nanocomposite: a novel interference-free electrochemical sensing platform for caffeine detection. 2022 , 116882	0
42	The Intercalation Cathode of MOFs-driven Vanadium-based Composite Embedded in N-doped Carbon for Aqueous Zinc ion Batteries. 2022 , 139573	0
41	Nanoarchitectonics with beetroot peel waste derived activated carbon for improved electrochemical performances in supercapacitors using redox additive electrolyte. 2022 , 924, 116857	0
40	Preparation and Electrochemical Characterization of Porous Carbon Foam from Waste Floral Foam for Supercapacitors. 2022 , 32, 369-378	0
39	N-Doped Two-Dimensional Carbon Nanosheets with Micropore-Dominant Porosity for High-Performance Supercapacitors. 2022 , 36, 13246-13255	0
38	Synthesis of Boron-Doped Non-Flammable Anhydrous Electrolytes for Flexible Quasi-Solid-State Supercapacitor Applications. 2022 , 36, 13229-13237	0
37	Recent Development of Multifunctional Nanocomposites Based on Bacterial Nanocellulose. 2023 , 75-105	0
36	Recent development of carbon electrode materials for electrochemical supercapacitors. 2022 , 8, 656-661	1
35	Robust N-doping porous carbon nanofiber membranes with inter-fiber cross-linked structures for supercapacitors. 2023 , 202, 13-25	2
34	Structurally Controllable Hay-Slag-Based Porous Carbons for Supercapacitor and CO ₂ Adsorption Applications.	0
33	Enhanced capacitance of phosphorus, nitrogen, and oxygen tri-doped balsa wood-based porous carbon for supercapacitors. 2023 , 58, 106339	0
32	Constructing conjugated microporous polymers containing triphenylamine moieties for high-performance capacitive energy storage. 2023 , 264, 125541	2
31	A novel Co ₃ Mo ₃ N self-embedded in porous carbon nanocomposite derived from Mo doped ZIF-67: An effective catalyst for electrochemical H ₂ O ₂ sensing. 2023 , 185, 108296	0
30	Strategies for enhancing the catalytic activity and electronic conductivity of MOFs-based electrocatalysts. 2023 , 478, 214969	1
29	Design of hierarchically porous carbon frameworks for enhanced CO ₂ capture performance. 2023 , 109321	0
28	Oxygenated Hydrocarbons from Catalytic Hydrogenation of Carbon Dioxide. 2023 , 13, 115	0
27	Regulating the specific surface area and porous structure of carbon for high performance supercapacitors. 2023 , 615, 156267	0
26	Ultrafine Carbon-Nanofiber-Reinforced Graphene Fiber Electrodes for Flexible Supercapacitors with High Specific Capacitance and Durable Cycle Stability. 2023 , 6, 353-361	0

- 25 Construction of a Molecularly Imprinted Sensor Modified with Tea Branch Biochar and Its Rapid Detection of Norfloxacin Residues in Animal-Derived Foods. **2023**, 12, 544 ○
- 24 Potential impact of smart-hybrid supercapacitors in novel electronic devices and electric vehicles. **2023**, 795-850 ○
- 23 Healable supercapacitors. **2023**, 613-628 ○
- 22 Fabrication of a flexible porous polypyrrole film with a 3D micro-nanostructure and its electrochemical properties. **2023**, 25, 10925-10934 ○
- 21 Binder-Free Supercapacitors. **2023**, 195-223 ○
- 20 Performance evaluation of HCOOH micro-fluidic fuel cell using Ni wire electrode. **2023**, 932, 117245 ○
- 19 Niobium- and cobalt-modified dual-source-derived porous carbon with a honeycomb-like stable structure for supercapacitor and hydrogen evolution reaction. **2023**, 639, 33-48 ○
- 18 Construction of Mo₂N nanoparticles embedded in N, O-doped carbon sheets and its supercapacitive behaviors. **2023**, 946, 169458 ○
- 17 Switching the locus of oxygen reduction and evolution reactions between spinel active phase and carbon carrier upon heteroatoms doping. **2023**, 418, 114043 ○
- 16 Electrospun amorphous CoO_x/C composite nanofibers doped with heteroatoms for symmetric supercapacitors. **2023**, 341, 127735 ○
- 15 Hydrogel-derived nitrogen-doped porous carbon framework with vanadium nitride decoration for supercapacitors with superior cycling performance. **2023**, 155, 167-174 ○
- 14 Lamellar and Nanofiber-Based Proton Exchange Membranes for Hydrogen Fuel Cell. **2023**, 167-217 ○
- 13 Porous Carbon Nanofiber Flexible Membranes via a Bottlebrush Copolymer Template for Enhanced High-Performance Supercapacitors. **2023**, 15, 5644-5656 ○
- 12 Synergistic effect in g-C₃N₄/CuO nanohybrid structures as efficient electrode material for supercapacitor applications. **2023**, 150, 110557 ○
- 11 Electrospun porous carbon nanofibers derived from bio-based phenolic resins as free-standing electrodes for high-performance supercapacitors. ○
- 10 Fabrication of Porous Carbon Nanofibers from Polymer Blends Using Template Method for Electrode-Active Materials in Supercapacitor. **2023**, 28, 2228 1
- 9 Nanostructured Conducting Polymers and Their Applications in Energy Storage Devices. **2023**, 15, 1450 1
- 8 Polyaniline combining with ultrathin manganese dioxide nanosheets on carbon nanofibers as effective binder-free supercapacitor electrode. **2023**, 450, 142275 1

- 7 Boosting the crystallinity of novel two-dimensional hexamine dipyrazino quinoxaline-based covalent organic frameworks for electrical double-layer supercapacitors. ○
- 6 Heteroatom-Enhanced Porous Carbon Materials Based on Polybenzoxazine for Supercapacitor Electrodes and CO₂ Capture. **2023**, 15, 1564 ○
- 5 Ordered porous nitrogen-vacancy carbon nitride for efficient visible-light hydrogen evolution. **2023**, 642, 53-60 ○
- 4 Boosting the electrochemical performance of ZnO nanomaterials through a conductive CuS matrix for aqueous supercapacitors. ○
- 3 Polymers/graphene derivativeBased nanocomposites as electrode materials for supercapacitors. **2023**, 451-474 ○
- 2 In Situ S-Doped Graphene Film using NaHSO₃ as Sulfur Source for High-Performance Flexible Supercapacitors. ○
- 1 Waste plastic to energy storage materials: A State-of-the-art review. ○