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Review on recent advances in nitrogen-doped carbons: preparations and applications in supercapacitors

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796	Heteroatom-Doped Carbon Nanostructures Derived from Conjugated Polymers for Energy Applications. 2016 , 8,		31
795	Effect of NiS addition on nitridation of alumina to aluminum nitride using polymeric carbon nitride as a nitridation reagent. 2016 , 42, 14716-14720		1
794	Direct Chemical Synthesis of MnO2 Nanowhiskers on Transition-Metal Carbide Surfaces for Supercapacitor Applications. 2016 , 8, 18806-14		256
793	Nitrogen-Doped Nanoporous Graphenic Carbon: An Efficient Conducting Support for O2 Cathode. 2016 , 2, 692-697		31
792	Highly Selective Upgrading of Biomass-Derived Alcohol Mixtures for Jet/Diesel-Fuel Components. 2016 , 9, 3465-3472		12
791	In situ characterization of electrochemical processes in one dimensional nanomaterials for energy storages devices. 2016 , 24, 165-188		81
79°	Facile synthesis of 3D hierarchical N-doped graphene nanosheet/cobalt encapsulated carbon nanotubes for high energy density asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 9555-9565	13	91
7 ⁸ 9	Self-templating synthesis of nitrogen-decorated hierarchical porous carbon from shrimp shell for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 7445-7452	13	106
788	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	3	79
787	Facile and green decoration of Pd nanoparticles on macroporous carbon by polyoxometalate with enhanced electrocatalytic ability. 2016 , 6, 39618-39626		6
786	The evolution of hierarchical porosity in self-templated nitrogen-doped carbons and its effect on oxygen reduction electrocatalysis. 2016 , 6, 80398-80407		33
785	Nitrogen-doped carbon nets with micro/mesoporous structures as electrodes for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 16698-16705	13	68
784	Mesoporous transition metal oxides quasi-nanospheres with enhanced electrochemical properties for supercapacitor applications. 2016 , 483, 73-83		25
783	ZIF-derived nitrogen-doped carbon/3D graphene frameworks for all-solid-state supercapacitors. 2016 , 6, 76575-76581		14
782	Recent progress in 2D or 3D N-doped graphene synthesis and the characterizations, properties, and modulations of N species. 2016 , 51, 10323-10349		62
781	Mesoporous graphitic carbon microtubes derived from fullerene C70 tubes as a high performance electrode material for advanced supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 13899-1390)6 ¹³	64
780	Boosting vanadium flow battery performance by Nitrogen-doped carbon nanospheres electrocatalyst. 2016 , 28, 19-28		136

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779	Interconnected Carbon Nanosheets for Excellent-Performance supercapacitors. <i>Electrochimica Acta</i> , 2016 , 222, 793-805	6.7	29
778	Polyoxometalates-mediated facile synthesis of Pt nanoparticles anchored on an ordered mesoporous carbon for electrochemical applications. 2016 , 6, 93469-93475		10
777	Direct Heating Amino Acids with Silica: A Universal Solvent-Free Assembly Approach to Highly Nitrogen-Doped Mesoporous Carbon Materials. <i>Advanced Functional Materials</i> , 2016 , 26, 6649-6661	15.6	60
776	Nitrogen-doped hollow carbon spheres for supercapacitors application. 2016 , 688, 878-884		40
775	Fabrication and characterization of hybrid films based on polyaniline and graphitic carbon nitride nanosheet. 2016 , 133,		28
774	Dissolution-Capture Strategy to Form Monodispersed Nitrogen-Doped Hollow Mesoporous Carbon Spheres. 2016 , 163, A3063-A3068		9
773	Controlling the BET Surface Area of Porous Carbon by Using the Cd/C Ratio of a Cd-MOF Precursor and Enhancing the Capacitance by Activation with KOH. 2016 , 22, 17734-17747		34
772	Aziridine-Functionalized Multiwalled Carbon Nanotubes: Robust and Versatile Catalysts for the Oxygen Reduction Reaction and Knoevenagel Condensation. 2016 , 8, 30099-30106		51
771	Phosphorus and sulfur dual doped hierarchic porous carbons with superior supercapacitance performance. <i>Electrochimica Acta</i> , 2016 , 222, 141-148	6.7	26
770	Enhanced selective adsorption of CO2 on nitrogen-doped porous carbon monoliths derived from IRMOF-3. 2016 , 52, 9757-60		27
769	Three-dimensional freestanding hierarchically porous carbon materials as binder-free electrodes for supercapacitors: high capacitive property and long-term cycling stability. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 5623-5631	13	70
768	Redox-active triazatruxene-based conjugated microporous polymers for high-performance supercapacitors. 2017 , 8, 2959-2965		103
767	Materials Design and System Construction for Conventional and New-Concept Supercapacitors. 2017 , 4, 1600382		289
766	A protic salt-derived porous carbon for efficient capacitive deionization: Balance between porous structure and chemical composition. 2017 , 116, 21-32		57
765	Unraveling Surface Basicity and Bulk Morphology Relationship on Covalent Triazine Frameworks with Unique Catalytic and Gas Adsorption Properties. <i>Advanced Functional Materials</i> , 2017 , 27, 1605672	15.6	47
764	A fluorescent carbon nitride nanofibrous hydrogel for selective sensing of Cu2+. 2017 , 7, 1318-1325		11
763	Freestanding highly defect nitrogen-enriched carbon nanofibers for lithium ion battery thin-film anodes. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 5532-5540	13	28
762	Phosphorus doped and defects engineered graphene for improved electrochemical sensing: synergistic effect of dopants and defects. <i>Electrochimica Acta</i> , 2017 , 231, 557-564	6.7	38

761	Self-supported electrodes of Na2Ti3O7 nanoribbon array/graphene foam and graphene foam for quasi-solid-state Na-ion capacitors. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 5806-5812	13	42
760	Nitrogen-Doped Porous Carbons from Ionic Liquids@MOF: Remarkable Adsorbents for Both Aqueous and Nonaqueous Media. 2017 , 9, 10276-10285		106
759	Free-standing fluorine and nitrogen co-doped graphene paper as a high-performance electrode for flexible sodium-ion batteries. 2017 , 116, 338-346		100
758	A Non-Woven Network of Porous Nitrogen-doping Carbon Nanofibers as a Binder-free Electrode for Supercapacitors. <i>Electrochimica Acta</i> , 2017 , 230, 445-453	6.7	44
757	Nitrogen-doped worm-like graphitized hierarchical porous carbon designed for enhancing area-normalized capacitance of electrical double layer supercapacitors. 2017 , 117, 163-173		84
756	Low-crystalline iron oxide hydroxide nanoparticle anode for high-performance supercapacitors. 2017 , 8, 14264		452
755	Recent Breakthroughs in Supercapacitors Boosted by Nitrogen-Rich Porous Carbon Materials. 2017 , 4, 1600408		275
754	Hierarchically porous carbon nanosheets derived from Moringa oleifera stems as electrode material for high-performance electric double-layer capacitors. 2017 , 353, 260-269		91
753	Biomass-derived mesopore-dominant porous carbons with large specific surface area and high defect density as high performance electrode materials for Li-ion batteries and supercapacitors. 2017 , 36, 322-330		348
752	Carbon-based supercapacitors for efficient energy storage. 2017 , 4, 453-489		409
75 ²	Carbon-based supercapacitors for efficient energy storage. 2017 , 4, 453-489 Computational screening for high-activity MoS2 monolayer-based catalysts for the oxygen reduction reaction via substitutional doping with transition metal. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 9842-9851	13	409 56
	Computational screening for high-activity MoS2 monolayer-based catalysts for the oxygen reduction reaction via substitutional doping with transition metal. <i>Journal of Materials Chemistry A</i> ,	13	
75 ¹	Computational screening for high-activity MoS2 monolayer-based catalysts for the oxygen reduction reaction via substitutional doping with transition metal. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 9842-9851 Carbon-based composite materials for supercapacitor electrodes: a review. <i>Journal of Materials</i>		56
75 ¹ 75 ⁰	Computational screening for high-activity MoS2 monolayer-based catalysts for the oxygen reduction reaction via substitutional doping with transition metal. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 9842-9851 Carbon-based composite materials for supercapacitor electrodes: a review. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 12653-12672 Nitrogen and oxygen co-doped carbon networks with a mesopore-dominant hierarchical porosity	13	56 842
751 750 749	Computational screening for high-activity MoS2 monolayer-based catalysts for the oxygen reduction reaction via substitutional doping with transition metal. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 9842-9851 Carbon-based composite materials for supercapacitor electrodes: a review. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 12653-12672 Nitrogen and oxygen co-doped carbon networks with a mesopore-dominant hierarchical porosity for high energy and power density supercapacitors. <i>Electrochimica Acta</i> , 2017 , 238, 310-318 Fabrication of Novel Ternary Three-Dimensional RuO2/Graphitic-C3N4@reduced Graphene Oxide	13	56 842 106
751 750 749 748	Computational screening for high-activity MoS2 monolayer-based catalysts for the oxygen reduction reaction via substitutional doping with transition metal. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 9842-9851 Carbon-based composite materials for supercapacitor electrodes: a review. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 12653-12672 Nitrogen and oxygen co-doped carbon networks with a mesopore-dominant hierarchical porosity for high energy and power density supercapacitors. <i>Electrochimica Acta</i> , 2017 , 238, 310-318 Fabrication of Novel Ternary Three-Dimensional RuO2/Graphitic-C3N4@reduced Graphene Oxide Aerogel Composites for Supercapacitors. 2017 , 5, 4982-4991 Nitrogen-doped porous carbon plates derived from fallen camellia flower for electrochemical	13	56 842 106
75 ¹ 75 ⁰ 749 748 747	Computational screening for high-activity MoS2 monolayer-based catalysts for the oxygen reduction reaction via substitutional doping with transition metal. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 9842-9851 Carbon-based composite materials for supercapacitor electrodes: a review. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 12653-12672 Nitrogen and oxygen co-doped carbon networks with a mesopore-dominant hierarchical porosity for high energy and power density supercapacitors. <i>Electrochimica Acta</i> , 2017 , 238, 310-318 Fabrication of Novel Ternary Three-Dimensional RuO2/Graphitic-C3N4@reduced Graphene Oxide Aerogel Composites for Supercapacitors. 2017 , 5, 4982-4991 Nitrogen-doped porous carbon plates derived from fallen camellia flower for electrochemical energy storage. 2017 , 21, 1165-1174	13	568421066117

(2017-2017)

743	Self-standing silicon-carbon nanotube/graphene by a scalable in situ approach from low-cost Al-Si alloy powder for lithium ion batteries. 2017 , 109, 9-17	43
742	Doping and reduction of graphene oxide using chitosan-derived volatile N-heterocyclic compounds for metal-free oxygen reduction reaction. 2017 , 120, 419-426	34
74 ¹	Carbon nitrides: synthesis and characterization of a new class of functional materials. 2017 , 19, 15613-15638	231
740	Nitrogen and oxygen dual-doped carbon nanohorn for electrochemical capacitors. 2017 , 118, 511-516	40
739	Biomass derived porous nitrogen doped carbon for electrochemical devices. 2017 , 2, 84-99	106
738	Nitrogen doping in the carbon matrix for Li-ion hybrid supercapacitors: state of the art, challenges and future prospective. 2017 , 7, 18926-18936	24
737	Transformation of the greenhouse gas CO2 by molten electrolysis into a wide controlled selection of carbon nanotubes. 2017 , 18, 335-344	46
736	Hierarchical porous nitrogen-doped partial graphitized carbon monoliths for supercapacitor. 2017 , 19, 1	11
735	Convenient and large-scale synthesis of nitrogen-rich hierarchical porous carbon spheres for supercapacitors and CO 2 capture. 2017 , 412, 606-615	30
734	Towards real Li-air batteries: A binder-free cathode with high electrochemical performance in CO 2 and O 2. 2017 , 7, 209-215	49
733	N-Doped Cationic PAHs by Rh(III)-Catalyzed Double C-H Activation and Annulation of 2-Arylbenzimidazoles with Alkynes. 2017 , 19, 1702-1705	49
732	New insights on laser-induced graphene electrodes for flexible supercapacitors: tunable morphology and physical properties. 2017 , 28, 174002	58
731	Synthesis of N-doped Carbon Spheres Using Extended StBer Method for SO2 Adsorption. 2017 , 12, 1750004	1
730	Understanding the Influence of N-Doping on the CO2 Adsorption Characteristics in Carbon Nanomaterials. 2017 , 121, 616-626	45
729	Small Dopants Make Big Differences: Enhanced Electrocatalytic Performance of MoS2 Monolayer for Oxygen Reduction Reaction (ORR) by Nand Papoping. <i>Electrochimica Acta</i> , 2017 , 225, 543-550	82
728	Dual-Functional N Dopants in Edges and Basal Plane of MoS2 Nanosheets Toward Efficient and Durable Hydrogen Evolution. 2017 , 7, 1602086	215
727	Understanding, measuring and tuning the electrochemical properties of biochar for environmental applications. 2017 , 16, 695-715	37
726	Three-dimensional porous VO hierarchical spheres as a battery-type electrode for a hybrid supercapacitor with excellent charge storage performance. 2017 , 46, 15048-15058	75

725	Synthesis of nitrogen-doped graphitic carbon nanocapsules from a poly(ionic liquid) for CO2 capture. 2017 , 32, 380-384	9
724	Indole-based conjugated macromolecules as a redox-mediated electrolyte for an ultrahigh power supercapacitor. 2017 , 10, 2441-2449	49
723	Nitrogen-Doped Porous Carbon Nanospheres from Natural Sepia Ink: Easy Preparation and Extraordinary Capacitive Performance. 2017 , 3, 895-901	13
722	N-doped carbon hollow microspheres for metal-free quasi-solid-state full sodium-ion capacitors. 2017 , 41, 674-680	124
721	Metal/Porous Carbon Composites for Heterogeneous Catalysis: Old Catalysts with Improved Performance Promoted by N-Doping. 2017 , 7, 8090-8112	265
720	Straightforward Synthesis of Hierarchically Porous Nitrogen-Doped Carbon via Pyrolysis of Chitosan/Urea/KOH Mixtures and Its Application as a Support for Formic Acid Dehydrogenation Catalysts. 2017 , 5, 9935-9944	38
719	Two-Dimensional Carbon Nanosheets for High-Performance Supercapacitors: Large-Scale Synthesis and Codoping with Nitrogen and Phosphorus. 2017 , 56, 12344-12353	19
718	Easy synthesis of N-doped graphene by milling exfoliation with electrocatalytic activity towards the Oxygen Reduction Reaction (ORR). 2017 , 42, 30383-30388	17
717	Organic salt-derived nitrogen-rich, hierarchical porous carbon for ultrafast supercapacitors. 2017 , 41, 13611-13618	10
716	Influence of annealing on phase transformation and specific capacitance enhancement in Bi2O3. 2017 , 805, 146-158	17
715	The structure evolution of biochar from biomass pyrolysis and its correlation with gas pollutant adsorption performance. 2017 , 246, 101-109	122
714	Nitrogen and Sulfur Doped Mesoporous Carbons, Prepared from Templating Silica, as Interesting Material for Supercapacitors. 2017 , 2, 7082-7090	17
713	Highly Microporous Nitrogen-doped Carbon Synthesized from Azine-linked Covalent Organic Framework and its Supercapacitor Function. 2017 , 23, 17504-17510	50
712	Nitrogen-doped biomass/polymer composite porous carbons for high performance supercapacitor. 2017 , 364, 374-382	43
711	Promoting the Electrochemical Performances by Chemical Depositing of Gold Nanoparticles Inside Pores of 3D Nitrogen-Doped Carbon Nanocages. 2017 , 9, 31968-31976	15
710	Multifunctional, Self-Activating Oxygen-Rich Holey Carbon Monolith Derived from Agarose Biopolymer. 2017 , 5, 8747-8755	11
709	Template Synthesis of Nitrogen-Doped Carbon Nanosheets for High-Performance Supercapacitors Improved by Redox Additives. 2017 , 5, 8630-8640	22
708	Biomass derived nitrogen doped carbon with porous architecture as efficient electrode materials for supercapacitors. 2017 , 28, 2227-2230	35

707	Controlled Fabrication of Interconnected Porous Carbon Nanosheets for Supercapacitors with a Long Cycle Life. 2017 , 4, 3196-3203	8
706	Fabrication of N-doped and shape-controlled porous monolithic carbons from polyacrylonitrile for supercapacitors. 2017 , 7, 43172-43180	13
705	Nitrogen doped microporous carbon by ZnCl2 activation of protein. 2017 , 4, 095602	10
704	Synthesis and characterization of nitrogen-doped graphene hollow spheres as electrode material for supercapacitors. 2017 , 19, 1	15
703	Synthesis of nitrogen-doped graphene via pentachloropyridine as the sole solid source. 2017 , 111, 033106	5
702	Nitrogen-Superdoped 3D Graphene Networks for High-Performance Supercapacitors. 2017 , 29, 1701677	186
701	Large-size graphene-like porous carbon nanosheets with controllable N-doped surface derived from sugarcane bagasse pith/chitosan for high performance supercapacitors. 2017 , 123, 290-298	110
700	Graphene oxide induced hydrothermal carbonization of egg proteins for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 17040-17047	53
699	Anchovy-derived nitrogen and sulfur co-doped porous carbon materials for high-performance supercapacitors and dye-sensitized solar cells. 2017 , 7, 35565-35574	22
698	A hierarchical 2D NiMoB nanosheet@nitrogen doped graphene hybrid as a Pt-free cathode for high-performance dye sensitized solar cells and fuel cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 178962179	0486
697	Temperature-directed growth of highly pyridinic nitrogen doped, graphitized, ultra-hollow carbon frameworks as an efficient electrocatalyst for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 18064-18070	35
696	An excellent strategy for synthesis of coral-like ZnFe2O4 particles for capacitive pseudocapacitors. 2017 , 726, 154-163	15
695	A facile template approach to nitrogen-doped hierarchical porous carbon nanospheres from polydopamine for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 18242-18252	91
694	Solvent-Induced Cadmium(II) Metal-Organic Frameworks with Adjustable Guest-Evacuated Porosity: Application in the Controllable Assembly of MOF-Derived Porous Carbon Materials for Supercapacitors. 2017 , 23, 15680-15693	32
693	Enabling high-rate electrochemical flow capacitors based on mesoporous carbon microspheres suspension electrodes. 2017 , 364, 182-190	16
692	Highly Nitrogen-Doped Three-Dimensional Carbon Fibers Network with Superior Sodium Storage Capacity. 2017 , 9, 28604-28611	33
691	A simple synthetic route of N-doped mesoporous carbon derived from casein extracted with cobalt ions for high rate performance supercapacitors. <i>Electrochimica Acta</i> , 2017 , 250, 16-24	11
690	Mesopore- and Macropore-Dominant Nitrogen-Doped Hierarchically Porous Carbons for High-Energy and Ultrafast Supercapacitors in Non-Aqueous Electrolytes. 2017 , 9, 42797-42805	71

689	Facile green synthesis of 3D porous glucose-based carbon aerogels for high-performance supercapacitors. <i>Electrochimica Acta</i> , 2017 , 258, 951-958	13
688	Porous Carbon with Willow-Leaf-Shaped Pores for High-Performance Supercapacitors. 2017 , 9, 42699-42707	25
687	Substrate-Assisted in Situ Confinement Pyrolysis of Zeolitic Imidazolate Frameworks to Nitrogen-Doped Hierarchical Porous Carbon Nanoframes with Superior Lithium Storage. 2017 , 9, 42845-4285	5 ¹²
686	Synthesis of Nitrogen Doped Single Walled Carbon Nanotubes With Caffeine. <i>Physica Status Solidi</i> (B): Basic Research, 2017 , 254, 1700364	
685	Toward a molecular design of porous carbon materials. 2017 , 20, 592-610	146
684	Nitrogen-Doped Graphitized Carbon Electrodes for Biorefractory Pollutant Removal. 2017 , 121, 15188-15197	31
683	Disassembly-Reassembly Approach to RuO /Graphene Composites for Ultrahigh Volumetric Capacitance Supercapacitor. 2017 , 13, 1701026	85
682	Naturally three-dimensional laminated porous carbon network structured short nano-chains bridging nanospheres for energy storage. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 15759-15770	59
681	Ultrahigh volumetric performance of a free-standing compact N-doped holey graphene/PANI slice for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 16689-16701	67
680	An Ideal Electrode Material, 3D Surface-Microporous Graphene for Supercapacitors with Ultrahigh Areal Capacitance. 2017 , 9, 24655-24661	65
679	Nitrogen doped carbon nanotubes and nanofibers: Composition, structure, electrical conductivity and capacity properties. 2017 , 122, 475-483	67
678	Heteroatom-doped graphene as electrocatalysts for air cathodes. 2017 , 4, 7-19	119
677	Mesoporous Carbon Materials with Functional Compositions. 2017 , 23, 1986-1998	44
676	Controllable synthesis of nitrogen-doped hollow mesoporous carbon spheres using ionic liquids as template for supercapacitors. 2017 , 393, 151-158	55
675	Significance of optimal N-doping in mesoporous carbon framework to achieve high specific capacitance. 2017 , 418, 40-48	31
674	Cross-linked carbon networks constructed from N-doped nanosheets with enhanced performance for supercapacitors. 2017 , 396, 1326-1334	11
673	Facile preparation of ultrafine manganese dioxide nanowires on activated carbon paper with enhanced capacitance for supercapacitors. 2017 , 23, 247-251	4
672	Chemical blowing strategy synthesis of nitrogen-rich porous graphitized carbon nanosheets: Morphology, pore structure and supercapacitor application. 2017 , 312, 191-203	78

671	Nitrogen-doped hollow carbon spheres for supercapacitors. 2017 , 52, 3153-3161		19
670	Free standing three-dimensional nitrogen-doped carbon nanowire array for high-performance supercapacitors. 2017 , 308, 222-228		42
669	Preparation of conductive film via a low temperature synthesis that enables simultaneous nitrogen doping and reduction of graphene oxide. 2017 , 4, 085607		2
668	Graphitization and Pore Structure Adjustment of Graphene for Energy Storage and Conversion. 2017 , 1,		2
667	Oxygen and Nitrogen Co-enriched Sustainable Porous Carbon Hollow Microspheres from Sodium Lignosulfonate for Supercapacitors with High Volumetric Energy Densities. 2018 , 5, 1306-1320		29
666	Recent progress in carbon-based nanoarchitectures for advanced supercapacitors. 2018 , 1, 32-55		73
665	Robust Cage-Based ZincDrganic Frameworks Derived Dual-Doped Carbon Materials for Supercapacitor. 2018 , 18, 2358-2364		32
664	Wool fiber-derived nitrogen-doped porous carbon prepared from molten salt carbonization method for supercapacitor application. 2018 , 53, 8372-8384		37
663	Cooking carbon with protic salt: Nitrogen and sulfur self-doped porous carbon nanosheets for supercapacitors. 2018 , 347, 233-242		134
662	3D interconnected hierarchical porous N-doped carbon constructed by flake-like nanostructure with Fe/FeC for efficient oxygen reduction reaction and supercapacitor. 2018 , 10, 9252-9260		69
661	Biomass-Based Nitrogen-Doped Hollow Carbon Nanospheres Derived Directly from Glucose and Glucosamine: Structural Evolution and Supercapacitor Properties. 2018 , 6, 7380-7389		45
660	Kelp-derived three-dimensional hierarchical porous N, O-doped carbon for flexible solid-state symmetrical supercapacitors with excellent performance. 2018 , 447, 876-885		71
659	A self-template and self-activation co-coupling green strategy to synthesize high surface area ternary-doped hollow carbon microspheres for high performance supercapacitors. 2018 , 524, 165-176		40
658	N, S Co-doped hierarchical porous carbon rods derived from protic salt: Facile synthesis for high energy density supercapacitors. <i>Electrochimica Acta</i> , 2018 , 274, 378-388	6.7	94
657	Oxygen-rich porous carbon sheets: Facile one-step synthesis and enhanced electrochemical performance. <i>Diamond and Related Materials</i> , 2018 , 85, 89-97	3.5	15
656	Rapid transformation of heterocyclic building blocks into nanoporous carbons for high-performance supercapacitors 2018 , 8, 12300-12309		33
655	A high-performance supercapacitor electrode based on N-doped porous graphene. 2018 , 387, 43-48		152
654	Sustainable hierarchical porous biomass carbons enriched with pyridinic and pyrrolic nitrogen for asymmetric supercapacitor. 2018 , 149, 184-193		49

653	One-step hydrothermal synthesis of three-dimensional porous Ni-Co sulfide/reduced graphene oxide composite with optimal incorporation of carbon nanotubes for high performance supercapacitors. 2018 , 29, 175602	18
652	Tetra-heteroatom self-doped carbon nanosheets derived from silkworm excrement for high-performance supercapacitors. 2018 , 379, 74-83	69
651	Emergent Pseudocapacitance of 2D Nanomaterials. 2018 , 8, 1702930	172
650	Anomalous resistivity of heavily nitrogen doped graphitic carbon. <i>Diamond and Related Materials</i> , 2018 , 83, 75-79	1
649	Pyridinic N: A special group for enhancing direct decomposition reaction of NO over N-doped porous carbon. 2018 , 265, 98-103	11
648	High Volumetric Capacitance, Ultralong Life Supercapacitors Enabled by Waxberry-Derived Hierarchical Porous Carbon Materials. 2018 , 8, 1702695	159
647	One-step synthesis of ultra-high surface area nanoporous carbons and their application for electrochemical energy storage. 2018 , 131, 193-200	81
646	Nitrogen-containing novolac-derived carbon beads as electrode material for supercapacitors. 2018 , 132, 220-231	55
645	Synthesis of high performance N-doped carbon coated LiZnTiOvia a NTA-assisted solid-state route. 2018 , 47, 2711-2718	8
644	Nanocasting in ball mills Itombining ultra-hydrophilicity and ordered mesoporosity in carbon materials. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 859-865	22
643	Nitrogen and phosphorus co-doped carbon hollow spheres derived from polypyrrole for high-performance supercapacitor electrodes. 2018 , 437, 169-175	56
642	Porous carbon electrodes with battery-capacitive storage features for high performance Li-ion capacitors. 2018 , 12, 145-152	129
641	New amphiphilic block copolymer-modified electrodes for supercapacitors. 2018 , 42, 1290-1299	12
640	Microporous MOFs Engaged in the Formation of Nitrogen-Doped Mesoporous Carbon Nanosheets for High-Rate Supercapacitors. 2018 , 24, 2681-2686	16
639	KOH activation of biomass-derived nitrogen-doped carbons for supercapacitor and electrocatalytic oxygen reduction. <i>Electrochimica Acta</i> , 2018 , 261, 49-57	236
638	Introduction of organic-organic eutectic PCM in mesoporous N-doped carbons for enhanced thermal conductivity and energy storage capacity. 2018 , 211, 1203-1215	92
637	Optimization of the Pore Structure of Biomass-Based Carbons in Relation to Their Use for CO Capture under Low- and High-Pressure Regimes. 2018 , 10, 1623-1633	93
636	Biosourced Foam-Like Activated Carbon Materials as High-Performance Supercapacitors. 2018 , 2, 1700123	26

635	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
634	Hierarchical tubular structures composed of CoPx and carbon nanotubes: Highly effective electrocatalyst for oxygen reduction. 2018 , 130, 241-249		23
633	Carbon nitride template-directed fabrication of nitrogen-rich porous graphene-like carbon for high performance supercapacitors. 2018 , 130, 325-332		92
632	Nitrogen-doped porous carbon from ionic liquid@Al-metal-organic framework: A prominent adsorbent for purification of both aqueous and non-aqueous solutions. 2018 , 338, 107-116		49
631	Carbonized cellulose beads for efficient capacitive energy storage. 2018 , 25, 3545-3556		10
630	Internal structure INa storage mechanisms Œlectrochemical performance relations in carbons. 2018 , 97, 170-203		72
629	An evidence for an organic N-doped multiwall carbon nanotube heterostructure and its superior electrocatalytic properties for promising dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 8307-8322	13	15
628	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
627	A review on the heterostructure nanomaterials for supercapacitor application. <i>Journal of Energy Storage</i> , 2018 , 17, 181-202	7.8	71
626	Facile one-pot hydrothermal synthesis of particle-based nitrogen-doped carbon spheres and their supercapacitor performance. 2018 , 42, 6903-6909		19
625	Recent advances in functionalized micro and mesoporous carbon materials: synthesis and applications. 2018 , 47, 2680-2721		522
624	A hierarchical porous N-doped carbon electrode with superior rate performance and cycling stability for flexible supercapacitors. 2018 , 2, 986-992		27
623	Metal-organic framework-derived carbons: Preparation from ZIF-8 and application in the adsorptive removal of sulfamethoxazole from water. 2018 , 301, 90-97		96
622	Fabrication of the nitrogen doped ordered porous carbon derived from amino-maltose with excellent capacitance performance. 2018 , 25, 29-35		5
621	Synthesis of N-doped mesoporous carbons under different carbonization temperature and their application in supercapacitors. 2018 , 25, 503-509		4
620	N-Doped Carbon Nanofibrous Network Derived from Bacterial Cellulose for the Loading of Pt Nanoparticles for Methanol Oxidation Reaction. 2018 , 24, 1844-1852		14
619	A nitrogen-doped porous carbon derived from copper phthalocyanines on/in ZIF-8 as an efficient photocatalyst for the degradation of dyes and the C H activation of formamides. 2018 , 351, 208-224		17
618	V2O5 / nitrogen enriched mesoporous carbon spheres nanocomposite as supercapacitor electrode. 2018 , 258, 83-94		32

617	Modifying the electrochemical performance of vertically-oriented few-layered graphene through rotary plasma processing. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 908-917	40
616	Nitrogen and oxygen co-doped porous carbon for high performance supercapacitors. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 3340-3347	12
615	An overview of engineered porous material for energy applications: a mini-review. 2018, 24, 1-17	56
614	Improving the capacitance of derived porous carbon by oxygen functional groups for supercapacitor. 2018 , 214, 134-137	9
613	Nitrogen-doped porous carbons derived from a natural polysaccharide for multiple energy storage devices. 2018 , 2, 381-391	31
612	Conducting Polymer Nanostructures and their Derivatives for Flexible Supercapacitors. 2018 , 58, 1299-1314	24
611	Nitrogen-Doped Mesoporous Carbon as Electrocatalysts for Oxygen Reduction Reaction. 2018 , 769-776	
610	Nanoporous Carbon Synthesis: An Old Story with Exciting New Chapters. 2018 ,	10
609	Synthesis of porous graphene-like carbon materials for high-performance supercapacitors from petroleum pitch using nano-CaCO3 as a template. 2018 , 33, 316-323	20
608	A Green Route to High-Surface Area Carbons by Chemical Activation of Biomass-Based Products with Sodium Thiosulfate. 2018 , 6, 16323-16331	42
607	Textural properties dependent supercapacitive performances of mesoporous graphitic carbon nitride. 2018 , 10, 325-335	10
606	A novel porous carbon material derived from the byproducts of bean curd stick manufacture for high-performance supercapacitor use 2018 , 8, 39937-39947	21
605	Rational Design of Carbon Nitride Materials by Supramolecular Preorganization of Monomers. 2018 , 10, 5573-5586	73
604	Yeast-derived N-doped carbon microsphere/polyaniline composites as high performance pseudocapacitive electrodes. <i>Electrochimica Acta</i> , 2018 , 291, 256-266	35
603	Asphaltene-Based Porous Carbon Nanosheet as Electrode for Supercapacitor. 2018 , 6, 15708-15719	63
602	Prospective Synthesis Approaches to Emerging Materials for Supercapacitor. 2018 , 185-208	2
601	A new class of N-doped ionic PAHs via intramolecular [4+2]-cycloaddition between arylpyridines and alkynes. 2018 , 54, 11909-11912	10
600	Nitrogen-doped porous carbon derived from chitosan for the enhanced dehydrochlorination of lindane under mild conditions. 2018 , 25, 35646-35656	4

599	Self-template and self-activation synthesis of nitrogen-doped hierarchical porous carbon for supercapacitors. 2018 , 405, 132-141	63
598	Nanocasting and Direct Synthesis Strategies for Mesoporous Carbons as Supercapacitor Electrodes. 2018 , 30, 7391-7412	65
597	Biochar Supercapacitors: Recent Developments in the Materials and Methods. 2018 , 223-249	7
596	Synthesis, Structure and Electronic Properties of Graphitic Carbon Nitride Films. 2018 , 122, 25183-25194	38
595	Supermolecule polymerization derived porous nitrogen-doped reduced graphene oxide as a high-performance electrode material for supercapacitors. <i>Electrochimica Acta</i> , 2018 , 292, 20-30	21
594	Understanding the Roles of Sulfur Doping for Enhancing of Hydrophilicity and Electrochemical Performance of N,S-Codoped Hierarchically Porous Carbon. 2018 ,	2
593	Capacitance properties of unipolar pulsed electro-polymerized PEDOT films. 2018, 135, 46729	5
592	From weed to multi-heteroatom-doped honeycomb-like porous carbon for advanced supercapacitors: A gelatinization-controlled one-step carbonization. 2018 , 402, 203-212	56
591	Synthesis of N-doped carbon nanosheets with controllable porosity derived from bio-oil for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 19653-19663	75
590	Plasma Heavily Nitrogen-Doped Vertically Oriented Graphene Nanosheets (N-VOGNs) for High Volumetric Performance On-Chip Supercapacitors in Ionic Liquid. 2018 , 3, 32-39	1
589	Nitrogen Doped Heat-Treated and Activated Hydrothermal Carbon: Examination of Electrochemical Performance Using Step Potential Electrochemical Spectroscopy. 2018 , 165, A2840-A2848	9
588	Boron-doped graphene as a promising electrocatalyst for NO electrochemical reduction: a computational study. 2018 , 42, 16346-16353	12
587	Novel nanocomposite of MnFe2O4 and nitrogen-doped carbon from polyaniline carbonization as electrode material for symmetric ultra-stable supercapacitor. <i>Electrochimica Acta</i> , 2018 , 282, 116-127	50
586	Template-free synthesis of porous V2O5 flakes as a battery-type electrode material with high capacity for supercapacitors. 2018 , 553, 317-326	16
585	Chitosan/phytic acid hydrogel as a platform for facile synthesis of heteroatom-doped porous carbon frameworks for electrocatalytic oxygen reduction. 2018 , 137, 68-77	24
584	Lilbn-Conducting Pillar-Like Graphitic Carbon Nitrides as Novel Anodes for Lilbn Batteries. 2018 , 3, 5364-5376	6
583	Facile preparation of nitrogen-enriched hierarchical porous carbon nanofibers by Mg(OAc)2-assisted electrospinning for flexible supercapacitors. 2018 , 456, 827-834	19
582	Peroxidase mimetic activity of fluorescent NS-carbon quantum dots and their application in colorimetric detection of HO and glutathione in human blood serum. 2018 , 6, 5256-5268	59

581	A nitrogen-doped 3D open-structured graphite nanofiber matrix for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 14065-14068	13	16
580	Application of Nanomaterials Prepared by Thermolysis of Metal Chelates. 2018 , 459-541		
579	Defluorination-assisted heteroatom doping reaction with ammonia gas for synthesis of nitrogen-doped porous graphitized carbon. 2018 , 354, 261-268		8
578	Polyaniline-derived porous carbons: Remarkable adsorbent for removal of various hazardous organics from both aqueous and non-aqueous media. 2018 , 360, 163-171		36
577	Nitrogen-Doped Porous Carbon Derived from Carbazole-Substituted Tetraphenylethylene-Based Hypercrosslinked Polymer for High-Performance Supercapacitor. 2018 , 3, 8483-8490		12
576	An ordered mesoporous carbon nanosphere-encapsulated graphene network with optimized nitrogen doping for enhanced supercapacitor performance. 2018 , 10, 15379-15386		37
575	Microporosity-Controlled Synthesis of Heteroatom Codoped Carbon Nanocages by Wrap-Bake-Sublime Approach for Flexible All-Solid-State-Supercapacitors. <i>Advanced Functional Materials</i> , 2018 , 28, 1803786	15.6	63
574	Metal-organic coordination polymer/multi-walled carbon nanotubes composites to prepare N-doped hierarchical porous carbon for high performance supercapacitors. <i>Electrochimica Acta</i> , 2018 , 284, 69-79	6.7	17
573	Eco-Friendly Synthesis of Nitrogen-Doped Mesoporous Carbon for Supercapacitor Application. 2018 , 4, 20		8
57 ²	Synthesis of nitrogen-doped MoSe2 nanosheets with enhanced electrocatalytic activity for hydrogen evolution reaction. 2018 , 43, 15275-15280		28
571	N-doped porous carbon anchoring on carbon nanotubes derived from ZIF-8/polypyrrole nanotubes for superior supercapacitor electrodes. 2018 , 457, 1018-1024		45
570	Marine and Freshwater Feedstocks as a Precursor for Nitrogen-Containing Carbons: A Review. 2018 , 16,		6
569	Nacre-like laminate nitrogen-doped porous carbon/carbon nanotubes/graphene composite for excellent comprehensive performance supercapacitors. 2018 , 10, 15229-15237		13
568	High-performance asymmetric supercapacitor based on hierarchical nanocomposites of polyaniline nanoarrays on graphene oxide and its derived N-doped carbon nanoarrays grown on graphene sheets. 2018 , 531, 369-381		39
567	N-doped ordered mesoporous carbon prepared by solidBolid grinding for supercapacitors. 2018 , 33, 3408-3417		10
566	Electrochemical performance of polyaniline-derivated nitrogen-doped carbon nanowires. <i>Electrochimica Acta</i> , 2018 , 283, 1618-1631	6.7	27
565	Nitrogen-doped graphene-like carbon nanosheets from commercial glue: morphology, phase evolution and Li-ion battery performance. 2018 , 47, 12218-12227		15
564	A flexible membrane electrode with an electrolyte-affinity surface for energy storage: effects of amphiphilic block copolymers and membrane thickness. 2018 , 2, 1844-1854		2

563	Integration of supercapacitors into printed circuit boards. <i>Journal of Energy Storage</i> , 2018 , 19, 28-34	7.8	11
562	Nitrogen-Enriched Hollow Porous Carbon Nanospheres with Tailored Morphology and Microstructure for All-Solid-State Symmetric Supercapacitors. 2018 , 1, 4293-4303		53
561	Electrode materials for electrochemical capacitors based on poly(3,4 ethylenedioxythiophene) and functionalized multi-walled carbon nanotubes characterized in aqueous and aprotic electrolytes. 2018 , 244, 80-91		9
560	RNA as a Precursor to N-Doped Activated Carbon. 2018 , 1, 3815-3825		2
559	Copolymer-Templated Synthesis of Nitrogen-Doped Mesoporous Carbons for Enhanced Adsorption of Hexavalent Chromium and Uranium. 2018 , 1, 2536-2543		26
558	Fabrication of a 3D Hierarchical Sandwich Co S / MnS @ N-C @ MoS Nanowire Architectures as Advanced Electrode Material for High Performance Hybrid Supercapacitors. 2018 , 14, e1800291		111
557	Revisit to the correlation of surface characteristic nature with performance of N-enriched carbon-based supercapacitor. 2018 , 140, 68-76		11
556	Novel collagen waste derived Mn-doped nitrogen-containing carbon for supercapacitors. <i>Electrochimica Acta</i> , 2018 , 285, 292-300	6.7	24
555	BODIPY-based Carbonaceous Materials for High Performance Electrical Capacitive Energy Storage. 2018 , 13, 3051-3056		4
554	Nitrogen-doped carbon supported platinum catalyst via direct soft nitriding for high-performance polymer electrolyte membrane fuel cell. 2018 , 43, 17873-17879		6
553	Multifunctional mixed valence N-doped CNT@MFeO hybrid nanomaterials: from engineered one-pot coprecipitation to application in energy storage paper supercapacitors. 2018 , 10, 12820-12840		16
552	A general strategy to synthesize high-level N-doped porous carbons via Schiff-base chemistry for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 12334-12343	13	106
551	Development of nitrogen-doped carbon for selective metal ion capture. 2018 , 350, 608-615		48
550	Active Mechanism of the Interphase Film-Forming Process for an Electrolyte Based on a Sulfolane Solvent and a Chelato-Borate Complex. 2018 , 10, 25744-25753		16
549	Urea treatment of nitrogen-doped carbon leads to enhanced performance for the oxygen reduction reaction. 2018 , 33, 1612-1624		14
548	Potassium compound-assistant synthesis of multi-heteroatom doped ultrathin porous carbon nanosheets for high performance supercapacitors. 2018 , 51, 366-372		211
547	Controlled synthesis of mesoporous nitrogen-doped carbons with highly ordered two-dimensional hexagonal mesostructures and their chemical activation. 2018 , 10, 12398-12406		26
546	Rational design of activated carbon nitride materials for symmetric supercapacitor applications. 2018 , 455, 841-848		40

545	Formation of N-rich Hierarchically Porous Carbon via Direct Growth ZIF-8 on C3N4 Nanosheet with Enhancing Electrochemical Performance. 2018 , 3, 6440-6449	9
544	Electrolytic Conversion of CO2 to Carbon Nanostructures. 2019 , 15-33	
543	Nitrogen-doped fluorescent graphene nanosheets as visible-light-driven photocatalysts for dye degradation and selective sensing of ascorbic acid. 2019 , 43, 14575-14583	30
542	Fabrication of nitrogen and sulfur co-doped carbon nanofibers with three-dimensional architecture for high performance supercapacitors. 2019 , 495, 143572	16
541	Hierarchical Porous Carbon Derived from Covalent Triazine Frameworks for High Mass Loading Supercapacitors. 2019 , 1, 320-326	19
540	An Ion-Sensitive Field Effect Transistor Using Metal-Coordinated Zeolite-Templated Carbons as a Three-Dimensional Graphene Nanoribbon Network. 2019 , 6,	5
539	In-situ synthesis of porous organic polymer on rGO for high-performance capacitive energy storage. <i>Journal of Energy Storage</i> , 2019 , 25, 100873	2
538	Nitrogen-doped hierarchical porous carbons prepared via freeze-drying assisted carbonization for high-performance supercapacitors. 2019 , 496, 143643	17
537	Metal-organic framework-engaged synthesis of multicomponent MoO2@CoO-CoMoO4-NC hybrid nanorods as promising anode materials for lithium-ion batteries. 2019 , 254, 129-132	5
536	Tailoring the Adsorption of ACE-Inhibiting Peptides by Nitrogen Functionalization of Porous Carbons. 2019 , 35, 9721-9731	3
535	Sodium metal-assisted carbonization of pyrrole to prepare N-doped porous carbons for high-rate performance supercapacitors. 2019 , 153, 265-273	22
534	Synthesis of holey graphene networks functionalized with p-phenylene diamine monomers for superior performance flexible solid-state supercapacitors. <i>Electrochimica Acta</i> , 2019 , 320, 134610	11
533	Eryinglimilk powder by molten salt to prepare nitrogen-doped hierarchical porous carbon for high performance supercapacitor. 2019 , 806, 650-659	14
532	Nitrogen-doped metal-free carbon catalysts for (electro)chemical CO conversion and valorisation. 2019 , 48, 13508-13528	47
531	Hierarchical porous carbon with optimized mesopore structure and nitrogen doping for supercapacitor electrodes. 2019 , 288, 109576	25
530	Nitrogen-doped graphene prepared by thermal annealing of fluorinated graphene oxide as supercapacitor electrode. 2019 , 94, 3530-3537	15
529	Cationic supercapacitance of carbon nanotubes covered with copper hexacyanoferrate. 2019 , 30, 505401	9
528	Nitrogen-Doped Hierarchical Meso/Microporous Carbon from Bamboo Fungus for Symmetric Supercapacitor Applications. 2019 , 24,	15

527	Nitrogen doped carbon nanotubes decorated with iron carbide nanoparticles and their electrochemical capacitance. 2019 , 21, 100667		O
526	Carbon-Based Electrode Materials for Microsupercapacitors in Self-Powering Sensor Networks: Present and Future Development. 2019 , 19,		10
525	N-doped porous carbons with increased yield and hierarchical pore structures for supercapacitors derived from an N-containing phenyl-riched copolymer. 2019 , 80, 568-575		8
524	A facile one-pot method to prepare nitrogen and fluorine co-doped three-dimensional graphene-like materials for supercapacitors. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 19505-19512	2.1	4
523	Hydrothermal synthesis of ZnWO4MnO2 nanopowder doped with carbon black nanoparticles for high-performance supercapacitor applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 21250-21258	2.1	9
522	Ag2S decorated nanocubes with enhanced near-infrared photothermal and photodynamic properties for rapid sterilization. 2019 , 33, 100201		31
521	Carbohydrate Ionic Liquids and Salts as All-in-One Precursors for N-Doped Carbon. 2019 , 7, 19880-1988	8	23
520	Synthesis of Doped Porous 3D Graphene Structures by Chemical Vapor Deposition and Its Applications. <i>Advanced Functional Materials</i> , 2019 , 29, 1904457	15.6	35
519	Synthesis of nitrogen-doped porous carbon with superior performance as efficient supercapacitor electrodes from hazardous oily sludge waste. 2019 , 12, 1950060		1
518	Waste-to-wealth: biowaste valorization into valuable bio(nano)materials. 2019 , 48, 4791-4822		152
517	N-Doped Hierarchical Continuous Hollow Thin Porous Carbon Nanostructure for High-Performance Flexible Gel-Type Symmetric Supercapacitors. 2019 , 7, 17020-17029		9
516	Hierarchical porous carbon foam supported on carbon cloth as high-performance anodes for aqueous supercapacitors. 2019 , 439, 227066		12
515	Valorization of Swine Manure into Hydrochars. 2019 , 7, 560		6
514	Molecular engineering of supercapacitor electrodes with monodispersed N-doped carbon nanoporous spheres. 2019 , 43, 15892-15898		6
513	Commercial-Level Energy Storage via Free-Standing Stacking Electrodes. 2019 , 1, 1694-1709		12
512	Salt-assisted pyrolysis of covalent organic frameworks to porous heteroatom-doped carbons for supercapacitive energy storage. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 26829-26837	13	18
511	Nitrogen/oxygen co-doped porous carbons derived from a facilely-synthesized Schiff-base polymer for high-performance supercapacitor. <i>Journal of Energy Storage</i> , 2019 , 26, 100961	7.8	20
510	Bimetallic-organic coordination polymers to prepare N-doped hierarchical porous carbon for high performance supercapacitors. 2019 , 29, 495-503		8

509	Novel activated N-doped hollow microporous carbon nanospheres from pyrrole-based hyper-crosslinking polystyrene for supercapacitors. 2019 , 143, 104326		5
508	SOH-Containing Functional Carbon Materials: Synthesis, Structure, and Acid Catalysis. 2019 , 119, 11576	5-11630	0 83
507	Facile synthesis of porous carbon materials with extra high nitrogen content for supercapacitor electrodes. 2019 , 43, 3713-3718		13
506	Capacitive storage at nitrogen doped amorphous carbon electrodes: structural and chemical effects of nitrogen incorporation 2019 , 9, 4063-4071		9
505	Nickel in hierarchically structured nitrogen-doped graphene for robust and promoted degradation of antibiotics. 2019 , 218, 202-211		26
504	Function-driven engineering of 1D carbon nanotubes and 0D carbon dots: mechanism, properties and applications. 2019 , 11, 1475-1504		97
503	Poly(ionic liquid)/carboxymethyl chitosan complex-derived nitrogen and sulfur codoped porous carbon for high-performance supercapacitors. 2019 , 25, 4915-4924		10
502	Supercapacitive properties of manganese nitride thin film electrodes prepared by reactive magnetron sputtering: Effect of different electrolytes. 2019 , 45, 17120-17127		14
501	An Eco-Friendly Nitrogen Source for the Preparation of Vanadium Nitride/Nitrogen-Doped Carbon Nanocomposites for Supercapacitors. 2019 , 6, 3445-3453		9
500	Carbon nitride as a new way to facilitate the next generation of carbon-based supercapacitors. 2019 , 3, 2176-2204		34
499	Nitrogen-Dopped Ordered Mesoporous Carbon Anchored Pd Nanoparticles for Solvent Free Selective Oxidation of Benzyl Alcohol to Benzaldehyde by Using O. 2019 , 7, 458		10
498	Three-Dimensional Hierarchically Porous Graphene Fiber-Shaped Supercapacitors with High Specific Capacitance and Rate Capability. 2019 , 11, 25205-25217		30
497	Schiff Base-functionalized cobalt-based metal organic framework microspheres with a sea urchin-like structure for supercapacitor electrode material. 2019 , 847, 113248		8
496	Biomass-Based N, P, and S Self-Doped Porous Carbon for High-Performance Supercapacitors. 2019 ,		9
495	Effects of pyridine and pyrrole moieties on supercapacitive properties of imine-rich nitrogen-doped graphene. 2019 , 152, 915-923		12
494	Novel honeycomb silicon wrapped in reduced graphene oxide/CNT system as high-stability anodes for lithium-ion batteries. <i>Electrochimica Acta</i> , 2019 , 317, 583-593	6.7	29
493	One-step electrodeposited MnxCo1½(OH)2 nanosheet arrays as cathode for asymmetric on-chip micro-supercapacitors. 2019 , 114, 223903		9
492	One-step preparation of IN,O co-doped 3D hierarchically porous carbon derived from soybean dregs for high-performance supercapacitors 2019 , 9, 17308-17317		8

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491	Strategies to Enhance the Performance of Electrochemical Capacitors Based on Carbon Materials. 2019 , 6,	39
490	Role of oxygen, nitrogen and sulfur functionalities on the surface of nanoporous carbons in CO2 adsorption: A critical review. 2019 , 287, 29-55	77
489	Oxygen- and Nitrogen-Enriched Honeycomb-Like Porous Carbon from Laminaria japonica with Excellent Supercapacitor Performance in Aqueous Solution. 2019 , 7, 11550-11563	31
488	Multilayer graphene functionalized through thermal 1,3-dipolar cycloadditions with imino esters: a versatile platform for supported ligands in catalysis. 2019 , 55, 7462-7465	7
487	Self-Assembled Porous-Silica within N-Doped Carbon Nanofibers as Ultra-flexible Anodes for Soft Lithium Batteries. 2019 , 16, 122-132	17
486	N-doped ordered mesoporous carbon spheres derived by confined pyrolysis for high supercapacitor performance. 2019 , 35, 2178-2186	37
485	Supermolecule Self-Assembly Promoted Porous N, P Co-Doped Reduced Graphene Oxide for High Energy Density Supercapacitors. 2019 , 2, 4084-4091	21
484	Fabrication of Hierarchical Porous Carbon Frameworks from Metal-Ion-Assisted Step-Activation of Biomass for Supercapacitors with Ultrahigh Capacitance. 2019 , 7, 10763-10772	40
483	Nitrogen-doped carbons derived from poly(ionic liquid)s with various backbones and cations. 2019 , 68, 1599-1609	2
482	Microporous Organic Polymer-Derived Nitrogen-Doped Porous Carbon Spheres for Efficient Capacitive Energy Storage. 2019 , 6, 3327-3336	14
481	Adsorptive removal of nitroimidazole antibiotics from water using porous carbons derived from melamine-loaded MAF-6. 2019 , 378, 120761	25
480	Preparation of chrome-tanned leather shaving-based hierarchical porous carbon and its capacitance properties 2019 , 9, 18333-18343	10
479	A surface carbonization strategy towards MoS2 microspheres with enhanced electrochemical hydrogen evolution activity. 2019 , 43, 9583-9588	4
478	Stabilization of palladium nanoparticles on chitosan derived N-doped carbon for hydrogenation of various functional groups. 2019 , 487, 1307-1315	19
477	Triple Helical Ir(ppy) Phenylene Cage Prepared by Diol-Mediated Benzannulation: Synthesis, Resolution, Absolute Stereochemistry and Photophysical Properties. 2019 , 25, 8719-8724	4
476	Nitrogen-Doped Superporous Activated Carbons as Electrocatalysts for the Oxygen Reduction Reaction. 2019 , 12,	31
475	NiCo2S4 Nanotubes Anchored 3D Nitrogen-Doped Graphene Framework as Electrode Material with Enhanced Performance for Asymmetric Supercapacitors. 2019 , 7, 11157-11165	52
474	Organic Additives to Improve Catalyst Performance for High-Temperature Polymer Electrolyte Membrane Fuel Cells. 2019 , 6, 3892-3900	2

473	N-doped microporous carbon hollow spheres with precisely controlled architectures for supercapacitor. <i>Electrochimica Acta</i> , 2019 , 313, 389-396	6.7	21
472	Local structures of nitrogen-doped graphdiynes determined by computational X-ray spectroscopy. 2019 , 149, 672-678		11
471	A simple and universal method for preparing N, S co-doped biomass derived carbon with superior performance in supercapacitors. <i>Electrochimica Acta</i> , 2019 , 309, 34-43	6.7	39
470	3D Interlaced Networks of VO(OH)2 Nanoflakes Wrapped with Graphene Oxide Nanosheets as Electrodes for Energy Storage Devices. 2019 , 2, 2934-2945		57
469	Deflated balloon-like nitrogen-rich sulfur-containing hierarchical porous carbons for high-rate supercapacitors. 2019 , 484, 716-725		4
468	On the origin of mesopore collapse in functionalized porous carbons. 2019 , 149, 743-749		8
467	One-step synthesis of 3D-interconnected porous carbons derived from ephedra herb using calcium chloride and urea as co-activation for high-performance supercapacitors. 2019 , 25, 3907-3914		4
466	CO2 Storage on Nanoporous Carbons. 2019 , 287-330		6
465	Converting eggplant biomass into multifunctional porous carbon electrodes for self-powered capacitive deionization. 2019 , 5, 1054-1063		10
464	Fabrication of 3D ordered honeycomb-like nitrogen-doped carbon/PANI composite for high-performance supercapacitors. 2019 , 484, 1288-1296		30
463	Structuring Ru nanoparticles on magnetic nitrogen doped carbon induces excellent photocatalytic activity for oxidation of alcohols under visible light. 2019 , 379, 159-170		9
462	Nanoporous Materials for Gas Storage. 2019 ,		9
461	Well-Defined N/S Co-Doped Nanocarbons from Sulfurized PAN-b-PBA Block Copolymers: Structure and Supercapacitor Performance. 2019 , 2, 2467-2474		18
460	Soft-Templated Synthesis of Sheet-Like Nanoporous Nitrogen-Doped Carbons for Electrochemical Supercapacitors. 2019 , 6, 1901-1907		2
459	Nitrogen-doped hollow carbon spheres functionalized by 9,10-phenanthrenequinone molecules as a high-performance electrode for asymmetric supercapacitors. 2019 , 43, 6380-6387		12
458	Doping MoS2 monolayer with nonmetal atoms to tune its electronic and magnetic properties, and chemical activity: a computational study. 2019 , 43, 5766-5772		7
457	Rational Design of Highly Conductive Nitrogen-Doped Hollow Carbon Microtubes Derived from Willow Catkin for Supercapacitor Applications. 2019 , 6, 2064-2073		6
456	Carbon Nanocomposites: Preparation and Its Application in Catalytic Organic Transformations. 2019 ,		3

455	Supercapacitors (electrochemical capacitors). 2019 , 383-427	3
454	Interconnected porous composites electrode materials of Carbon@Vanadium nitride by directly absorbing VO3 <i>Electrochimica Acta</i> , 2019 , 306, 113-121	12
453	Ultrahigh-surface-area nitrogen-doped hierarchically porous carbon materials derived from chitosan and betaine hydrochloride sustainable precursors for high-performance supercapacitors. 2019 , 3, 1215-1224	24
452	Variation of nitrogen species in zeolite-templated carbon by low-temperature carbonization of pyrrole and the effect on oxygen reduction activity. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 8353-8360 ¹³	22
451	In Situ Chemical Synthesis of MnO2/HMCNT Nanocomposite with a Uniquely Developed Three-Dimensional Open Porous Architecture for Supercapacitors. 2019 , 29, 1587-1596	5
450	Hybridization design of materials and devices for flexible electrochemical energy storage. 2019 , 19, 212-241	114
449	Controlling Nitrogen Doping in Graphene with Atomic Precision: Synthesis and Characterization. 2019 , 9,	47
448	Nitrogen doped microporous carbon nanospheres derived from chitin nanogels as attractive materials for supercapacitors 2019 , 9, 10976-10982	26
447	Biligand metal-organic coordination polymer to prepare high N-doped content and structure controllable porous carbon with high-electrochemical performance. <i>Electrochimica Acta</i> , 2019 , 308, 263-276	5
446	Mesoporous carbon nanotube microspheres supported microporous pyrolytic carbon for high-performance supercapacitors. 2019 , 840, 423-429	4
445	One-dimensional SiC nanostructures: Designed growth, properties, and applications. 2019 , 104, 138-214	62
444	Achieving highly efficient CO2 to CO electroreduction exceeding 300 mA cm2 with single-atom nickel electrocatalysts. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 10651-10661	97
443	Electrolyte-Philic Electrode Material with a Functional Polymer Brush. 2019 , 11, 16087-16095	8
442	N-Doped Porous Carbon Derived by Direct Carbonization of Metal@rganic Complexes Crystal Materials for SO2 Adsorption. 2019 , 19, 1973-1984	21
441	Electrospun Nanofiber Electrodes. 2019 , 641-669	4
440	Polyacrylonitrile-derived nanostructured carbon materials. 2019 , 92, 89-134	50
439	A confinement strategy to prepare N-doped reduced graphene oxide foams with desired monolithic structures for supercapacitors. 2019 , 11, 4362-4368	17
438	Effect of nitrogen doping on the electrochemical performance of resorcinol-formaldehyde based carbon aerogels as electrode material for supercapacitor applications. 2019 , 173, 809-819	39

437	of Alkynes: Access to a Different Class of Fluorescent Ionic Nitrogen-Doped Polycyclic Aromatic Hydrocarbons. 2019 , 84, 4120-4130		6
436	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
435	N-Doped yolk-shell carbon nanotube composite for enhanced electrochemical performance in a supercapacitor. 2019 , 11, 22796-22803		19
434	Recent development of biomass-derived carbons and composites as electrode materials for supercapacitors. 2019 , 3, 2543-2570		79
433	Almond Shell-Derived Carbons under Low-Temperature Activation with Ultra-High Surface Area and Superior Performance for Supercapacitors. 2019 , 4, 12472-12478		2
432	Synthesis of a Novel Petal-Shaped Biomass-Derived Carbon Material with Controlled Pore Structure and Nitrogen Content for Use in Supercapacitors. 2019 , 6, 5896-5905		7
431	Mesoporous graphitic carbon nitride synthesized using biotemplate as a high-performance electrode material for supercapacitor and electrocatalyst for hydrogen evolution reaction in acidic medium. <i>Journal of Energy Storage</i> , 2019 , 26, 101032	7.8	10
430	Nitridation Temperature Effect on Carbon Vanadium Oxynitrides for a Symmetric Supercapacitor. 2019 , 9,		5
429	Development of Pd/Polyoxometalate/nitrogen-doping hollow carbon spheres tricomponent nanohybrids: A selective electrochemical sensor for acetaminophen. 2019 , 1047, 28-35		47
428	Scalable microfabrication of three-dimensional porous interconnected graphene scaffolds with carbon spheres for high-performance all carbon-based micro-supercapacitors. 2019 , 5, 303-312		11
427	Tuning capacitance of graphene films via a robust routine of adjusting their hierarchical structures. <i>Electrochimica Acta</i> , 2019 , 298, 254-264	6.7	10
426	Nitrogen-Doping Chemical Behavior of Graphene Materials with Assistance of Defluorination. 2019 , 123, 584-592		9
425	Resorcinol-formaldehyde based carbon aerogel: Preparation, structure and applications in energy storage devices. 2019 , 279, 293-315		39
424	Electrochemical investigation of ionic liquid-derived porous carbon materials for supercapacitors: pseudocapacitance versus electrical double layer. <i>Electrochimica Acta</i> , 2019 , 298, 541-551	5.7	25
423	Tuning Confined Nanospace for Preparation of N-doped Hollow Carbon Spheres for High Performance Supercapacitors. 2019 , 12, 303-309		34
422	Biomass waste-derived nitrogen-rich hierarchical porous carbon offering superior capacitive behavior in an environmentally friendly aqueous MgSO electrolyte. 2019 , 537, 475-485		10
421	Two-dimensional covalent organic frameworks as self-template derived nitrogen-doped carbon nanosheets for eco-friendly metal-free catalysis. 2019 , 244, 25-35		100
420	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, 776-7	85	36

419	Nanowire Electronics. 2019 ,	4
418	Silicon Carbide Nanowires and Electronics. 2019 , 237-335	1
417	Rh -Catalyzed Straightforward Synthesis of Benzophenanthroline and Benzophenanthrolinone Derivatives using Anthranils. 2019 , 25, 3000-3004	16
416	Monodisperse Carbon Sphere-Constructed Pomegranate-Like Structures for High-Volumetric-Capacitance Supercapacitors. 2019 , 11, 4011-4016	53
415	In situ formation of nitrogen doped mesoporous carbon via directly carbonizing polyaniline as an efficient electrocatalyst for determination of capsaicin. 2019 , 278, 327-339	7
414	Tailoring the physicochemical properties of chitosan-derived N-doped carbon by controlling hydrothermal carbonization time for high-performance supercapacitor application. 2019 , 207, 764-774	47
413	Green Conversion of Microalgae into High-Performance Sponge-Like Nitrogen-Enriched Carbon. 2019 , 6, 646-652	14
412	Nitrogen-doped nanocarbons (NNCs): Current status and future opportunities. 2019 , 15, 67-76	14
411	Facile in Situ Synthesis of Multiple-Heteroatom-Doped Carbons Derived from Polyimide Precursors for Flexible All-Solid-State Supercapacitors. 2019 , 11, 1996-2005	23
410	Synthesis and Surface Modification. 2019 , 27, 67-108	1
409	Nitrogen-doped carbon materials as a promising platform toward the efficient catalysis for hydrogen generation. 2019 , 571, 25-41	41
408	Ultra-dispersed island-like Co9S8 nanoparticles composed of nanosheets in-situ grown on nitrogen-doped graphene for asymmetric supercapacitor. <i>Electrochimica Acta</i> , 2019 , 293, 419-425	19
407	Heteroatom-Doped Carbon Materials: Synthesis, Mechanism, and Application for Sodium-Ion Batteries. 2019 , 3, 1800323	102
406	Cu2O-incorporated MAF-6-derived highly porous carbons for the adsorptive denitrogenation of liquid fuel. 2020 , 381, 122675	14
405	Porous nitrogen-doped MXene-based electrodes for capacitive deionization. 2020 , 25, 731-739	67
404	Nitrogen Doped CarbonBilica Based Cu(0) Nanometal Catalyst Enriched with Well-Defined N-moieties: Synthesis and Application in One-Pot Synthesis of 1,4-Disubstituted-1,2,3-triazoles. 2020 , 150, 82-94	8
403	A Theory/Experience Description of Support Effects in Carbon-Supported Catalysts. 2020, 120, 1250-1349	215
402	High-voltage aqueous asymmetric pseudocapacitors based on methyl blue-doped polyaniline hydrogels and the derived N/S-codoped carbon aerogels. 2020 , 383, 123153	20

401	MnCo2O4@Co(OH)2 coupled with N-doped carbon nanotubes@reduced graphene oxide nanosheets as electrodes for solid-state asymmetric supercapacitors. 2020 , 384, 123372		24	
400	Construction of ball-flower like NiS2@MoS2 composite for high performance supercapacitors. <i>Electrochimica Acta</i> , 2020 , 330, 135208	6.7	41	
399	Larch-derived hierarchical nitrogen-doped carbon with echinus-like architecture for supercapacitor applications. 2020 , 74, 529-538		1	
398	Ultrathin carbon layer-encapsulated TiN nanotubes array with enhanced capacitance and electrochemical stability for supercapacitors. 2020 , 503, 144293		8	
397	3D hybrid of CoS and N-doped carbon hollow spheres as effective hosts for Li-S batteries. 2020 , 31, 035	404	13	
396	From Molecular Precursors to Nanoparticles Tailoring the Adsorption Properties of Porous Carbon Materials by Controlled Chemical Functionalization. <i>Advanced Functional Materials</i> , 2020 , 30, 1908371	15.6	26	
395	Nitrogen-doped carbon nanotubes by multistep pyrolysis process as a promising anode material for lithium ion hybrid capacitors. 2020 , 31, 2239-2244		5	
394	Template free one pot synthesis of heteroatom doped porous Carbon Electrodes for High performance symmetric supercapacitor. <i>Electrochimica Acta</i> , 2020 , 337, 135698	6.7	6	
393	Synthesis of Benzoxazine-Based N-Doped Mesoporous Carbons as High-Performance Electrode Materials. 2020 , 10, 422		3	
392	Core-shell structured carbon nanotubes/N-doped carbon layer nanocomposites for supercapacitor electrodes. 2020 , 22, 1		6	
391	N-doped hollow mesoporous carbon spheres prepared by polybenzoxazines precursor for energy storage. 2020 , 160, 265-272		34	
390	A facile route to high nitrogen-containing porous carbon fiber sheets from biomass-flax for high-performance flexible supercapacitors. 2020 , 507, 145108		27	
389	In situ Electron paramagnetic resonance spectroelectrochemical study of graphene-based supercapacitors: Comparison between chemically reduced graphene oxide and nitrogen-doped reduced graphene oxide. 2020 , 160, 236-246		23	
388	Fe and N co-doped carbon derived from melamine resin capsuled biomass as efficient oxygen reduction catalyst for air-cathode microbial fuel cells. 2020 , 45, 3163-3175		31	
387	Understanding the Ion-Sorption Dynamics in Functionalized Porous Carbons for Enhanced Capacitive Energy Storage. 2020 , 12, 2773-2782		10	
386	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	
385	Understanding the roles of amorphous domains and oxygen-containing groups of nitrogen-doped carbon in oxygen reduction catalysis: toward superior activity. 2020 , 7, 177-185		8	
384	Pomelo peel-derived, N-doped biochar microspheres as an efficient and durable metal-free ORR catalyst in microbial fuel cells. 2020 , 4, 1642-1653		22	

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383	bagasse activated carbon modified electrode. 2020 , 242, 122525		13
382	A Simple and Green Preparation Method of Nitrogen-Doped Carbon Nanocages for Supercapacitor Application. 2020 , 6, 308-315		6
381	N, S co-doped biomass derived carbon with sheet-like microstructures for supercapacitors. <i>Electrochimica Acta</i> , 2020 , 331, 135348	6.7	56
380	Deep eutectic solvent promoted tunable synthesis of nitrogen-doped nanoporous carbons from enzymatic hydrolysis lignin for supercapacitors. <i>Materials Research Bulletin</i> , 2020 , 123, 110708	5.1	9
379	Accommodating succinonitrile rotators in micro-pores of 3D nano-structured cactus carbon for assisting micro-crystallite organization, ion transport and surplus pseudo-capacitance: An extreme temperature supercapacitor behavior. <i>Electrochimica Acta</i> , 2020 , 333, 135547	6.7	0
378	Nitrogen Doped Superactivated Carbons Prepared at Mild Conditions as Electrodes for Supercapacitors in Organic Electrolyte. 2020 , 6, 56		2
377	High nitrogen content carbons: Morphological and chemical changes with synthesis temperature and application in lithiumBulfur batteries. <i>Electrochimica Acta</i> , 2020 , 359, 136942	6.7	4
376	Using nitroaromatic fused-heterocycle molecules as nitrogen source to hugely boost the capacitance performance of graphene. <i>Electrochimica Acta</i> , 2020 , 354, 136703	6.7	5
375	Chitosan as a sustainable precursor for nitrogen-containing carbon nanomaterials: synthesis and uses. 2020 , 10, 100053		17
374	Sustainable route for the synthesis of flower-like Ni@N-doped carbon nanosheets from bagasse and its catalytic activity towards reductive amination of nitroarenes with bio-derived aldehydes. 2020 , 44, 18714-18723		11
373	Physicochemical Properties of Nitrogen Doped Carbon Nano-onions Grown by Flame Pyrolysis from Grapeseed Oil for Use in Supercapacitors. 2020 , 32, 2946-2957		5
372	Engineering 2D Materials: A Viable Pathway for Improved Electrochemical Energy Storage. 2020 , 10, 2002621		22
371	Guanine-Derived Porous Carbonaceous Materials: Towards C N. 2020 , 13, 6643-6650		9
370	Sustainable N-doped hierarchical porous carbons as efficient CO2 adsorbents and high-performance supercapacitor electrodes. 2020 , 42, 101326		44
369	Nitrogen-doped nanostructured carbons: A new material horizon for water desalination by capacitive deionization. 2020 , 2, 100043		37
368	Recent methodological trends in nitrogenfunctionalized activated carbon production towards the gravimetric capacitance: A mini review. <i>Journal of Energy Storage</i> , 2020 , 32, 101757	7.8	6
367	Synthesis of a Very High Specific Surface Area Active Carbon and Its Electrical Double-Layer Capacitor Properties in Organic Electrolytes. 2020 , 4, 43		20
366	The synthesis of newly developed Li(1-x-y)NaxKyYF4:Yb3+/Er3+ and its excellent upconversion properties. 2020 , 108, 110164		3

365	Phosphorus-doped carbon/carbon nanotube hybrids as high-performance electrodes for supercapacitors. <i>Electrochimica Acta</i> , 2020 , 354, 136713	6.7	4
364	On the Possibility of Helium Adsorption in Nitrogen Doped Graphitic Materials. 2020 , 10, 5832		5
363	Synthesis of Hybrid Carbon Materials Consisting of N-Doped Microporous Carbon and Amorphous Carbon Nanotubes. 2020 , 13,		3
362	Enhanced Oxygen Reduction Catalysis of Carbon Nanohybrids from Nitrogen-Rich Edges. 2020 , 36, 13	752-13	75 <u>.</u> 8
361	Self-standing porous N doped carbon/carbon foam for high-performance supercarpacitor. <i>Diamond and Related Materials</i> , 2020 , 110, 108138	3.5	5
360	Defective 3D nitrogen-doped carbon nanotube-carbon fibre networks for high-performance supercapacitor: Transformative role of nitrogen-doping from surface-confined to diffusive kinetics. 2020 , 169, 312-326		28
359	Preparation of N, S co-decorated carbon supported iron species for oxygen reduction and zinc air batteries. 2020 , 848, 156367		6
358	Energy Storage in Supercapacitors: Focus on Tannin-Derived Carbon Electrodes. 2020 , 7,		16
357	Dexterous and friendly preparation of N/P co-doping hierarchical porous carbon nanofibers via electrospun chitosan for high performance supercapacitors. 2020 , 878, 114473		6
356	Metal phthalocyanine-linked conjugated microporous polymer hybridized with carbon nanotubes as a high-performance flexible electrode for supercapacitors. 2020 , 45, 22950-22958		17
355	Three-dimensional honeycomb-like porous carbon derived from Ganoderma lucidum spore for high-performance electrochemical capacitors. 2020 , 26, 5805-5815		2
354	Polymer-Derived Heteroatom-Doped Porous Carbon Materials. 2020 , 120, 9363-9419		196
353	Biomass-derived N-doped porous activated carbon as a high-performance and cost-effective pH-universal oxygen reduction catalyst in fuel cell. 2020 , 45, 29308-29321		12
352	Iron oxide modified N-doped porous carbon derived from porous organic polymers as a highly-efficient catalyst for reduction of nitroarenes. 2020 , 498, 111249		5
351	Air-mediated construction of O, N-rich carbon: An efficient support of palladium nanoparticles toward catalytic formic acid dehydrogenation and 4-nitrophenol reduction. 2020 , 45, 29034-29045		9
350	Hydrothermal Activation of Porous Nitrogen-Doped Carbon Materials for Electrochemical Capacitors and Sodium-Ion Batteries. 2020 , 10,		10
349	Minimizing the Size of Palladium Nanoparticles Immobilized within the Channels of Ionic Liquid-Derived Magnetically Separable Heteroatom-Doped Mesoporous Carbon for Aerobic Oxidation of Alcohols. 2020 , 3, 10612-10627		2
348	Transparent Graphene/BN-Graphene Stacked Nanofilms for Electrocatalytic Oxygen Evolution. 2020 , 3, 10418-10426		5

(2020-2020)

347	supercapacitors. 2020 , 10, 14631		10
346	Reactive Plasma N-Doping of Amorphous Carbon Electrodes: Decoupling Disorder and Chemical Effects on Capacitive and Electrocatalytic Performance. 2020 , 8, 593932		1
345	A lignin dissolution-precipitation strategy for porous biomass carbon materials derived from cherry stones with excellent capacitance. 2020 , 832, 155029		15
344	Zinc oxide/carbon nanotube nanocomposite for high-performance flexible supercapacitor with sensing ability. <i>Electrochimica Acta</i> , 2020 , 350, 136353	6.7	13
343	A Strategy to Synthesize Ultrahigh-N-Doped Hierarchical Carbons via Induced Esheet from Silk Fibroin by In Situ Electrogelation/Electropolymerization. 2020 , 3, 3596-3608		1
342	Fabrication and electrochemical properties of manganese dioxide coated on cobalt silicate nanobelts core-shell composites for hybrid supercapacitors. 2020 , 600, 124951		7
341	Nanostructured Carbon-Nitrogen-Sulfur-Nickel Networks Derived From Polyaniline as Bifunctional Catalysts for Water Splitting. 2020 , 8, 385		5
340	N-Doped 3D hierarchical carbon from resorcinolformaldehydefhelamine resin for high-performance supercapacitors. 2020 , 44, 8638-8649		7
339	An Overview of Bacterial Cellulose in Flexible Electrochemical Energy Storage. 2020 , 13, 3731		12
338	Synthesis of nitrogen-doped hierarchical porous carbons from peanut shell as a promising electrode material for high-performance supercapacitors. <i>Journal of Energy Storage</i> , 2020 , 30, 101451	7.8	15
337	Perfluorinated membrane electrode assembly containing metal-free-catalyst cathode for anion exchange membrane fuel cells. 2020 , 871, 114283		7
336	A sugar derived carbon-red phosphorus composite for oxygen evolution reaction and supercapacitor activities. 2020 , 3, 508-514		5
335	Boron-doped single-walled carbon nanotube-based single-electron transistor. 2020,		
334	Ingenious preparation of N/NiO co-doped hierarchical porous carbon nanosheets derived from chitosan nanofibers for high-performance supercapacitors. 2020 , 31, 335713		7
333	High-yield synthesis of N-rich polymer-derived porous carbon with nanorod-like structure and ultrahigh N-doped content for high-performance supercapacitors. 2020 , 399, 125671		31
332	Porous Organic Polymers as Promising Electrode Materials for Energy Storage Devices. 2020 , 2000154		23
331	A novel path towards synthesis of nitrogen-rich porous carbon nanofibers for high performance supercapacitors. 2020 , 399, 125788		33
330	Understanding of the effect of nitrogen-doping level and micropore volume ratio on the capacitive performance of N,S-codoped hierarchically porous carbon. <i>Electrochimica Acta</i> , 2020 , 354, 136639	6.7	5

329	Manipulation of Nitrogen-Heteroatom Configuration for Enhanced Charge-Storage Performance and Reliability of Nanoporous Carbon Electrodes. 2020 , 12, 32797-32805	10
328	Coffee-Ground-Derived Nanoporous Carbon Anodes for Sodium-Ion Batteries with High Rate Performance and Cyclic Stability. 2020 , 34, 7666-7675	4
327	Recent development in the synthesis of agricultural and forestry biomass-derived porous carbons for supercapacitor applications: a review. 2020 , 26, 3705-3723	16
326	Binder assisted self-assembly of graphene oxide/Mn2O3 nanocomposite electrode on Ni foam for efficient supercapacitor application. 2020 , 46, 15631-15637	10
325	Biomass-derived Fe-NC hybrid for hydrogenation with formic acid: control of Fe-based nanoparticle distribution 2020 , 10, 10689-10694	6
324	From polymeric carbon nitride to carbon materials: extended application to electrochemical energy conversion and storage. 2020 , 12, 8636-8646	17
323	Polyaniline-derived nitrogen- and oxygen-decorated hierarchical porous carbons as an efficient electrode material for supercapacitors. 2020 , 24, 951-959	3
322	Electrode materials for supercapacitors. 2020 , 35-204	3
321	Biomass-derived porous carbons with tailored graphitization degree and pore size distribution for supercapacitors with ultra-high rate capability. 2020 , 515, 146020	53
320	Design and synthesis of nitrogen-doped hexagonal NiCoO nanoplates derived from Ni-Co-MOF for high-performance electrochemical energy storage. 2020 , 31, 2280-2286	38
319	Strategy for Constructing Nitrogen-Doped Graphene Structure by Patching Reduced Graphene Oxide under Low Temperature and Its Application in Supercapacitors. 2020 , 59, 7475-7484	6
318	In situ self-activation synthesis of binary-heteroatom co-doped 3D coralline-like microporous carbon nanosheets for high-efficiency energy storage in flexible all-solid-state symmetrical supercapacitors. 2020 , 4, 2527-2540	9
317	Egg Yolk Biomass Derived N-Doped Ordered Mesoporous Carbon: Highly Robust Heterogeneous Organocatalyst for One-Pot Deacatalization-Knoevenagel Reaction. 2020 , 5, 3669-3674	3
316	Stacking-Free Porous Graphene Network for High Capacitive Performance. 2020 , 3, 4348-4355	3
315	In Situ Generation of Electrolyte inside Pyridine-Based Covalent Triazine Frameworks for Direct Supercapacitor Integration. 2020 , 13, 3192-3198	7
314	High Rate Performance Li4Ti5O12/N-doped Carbon/Stainless Steel Mesh Flexible Electrodes Prepared by Electrostatic Spray Deposition for Lithium-ion Capacitors. 2020 , 49, 337-340	2
313	Carbon-Coated Graphitic Carbon Nitride Nanotubes for Supercapacitor Applications. 2020, 3, 7016-7028	13
312	Active sites enriched hard carbon porous nanobelts for stable and high-capacity potassium-ion storage. 2020 , 77, 105018	48

(2020-2020)

311	N-doped hierarchical porous hollow carbon nanofibers based on PAN/PVP@SAN structure for high performance supercapacitor. 2020 , 186, 107825	38
310	Facile synthesis of microporous N-doped carbon material and its application in supercapacitor. 2020 , 306, 110483	4
309	Recent advances in carbon-based supercapacitors. 2020 , 1, 945-966	101
308	Highly porous, hierarchical microglobules of Co3O4 embedded N-doped carbon matrix for high performance asymmetric supercapacitors. 2020 , 529, 147147	27
307	Honeycomb-structured carbon aerogels from nanocellulose and skin secretion of Andrias davidianus for highly compressible binder-free supercapacitors. 2020 , 245, 116554	20
306	Nitrogen Incorporated Photoactive Brownmillerite CaFeO for Energy and Environmental Applications. 2020 , 10, 2713	12
305	Ex-situ nitrogen-doped porous carbons as electrode materials for high performance supercapacitor. 2020 , 569, 332-345	33
304	SiO2 stabilizes electrochemically active nitrogen in few-layer carbon electrodes of extraordinary capacitance. 2020 , 49, 179-188	5
303	NDB Co-doped Hierarchical Porous Carbons Derived from Calcium Lignosulfonate for High-Performance Supercapacitors. 2020 , 34, 3909-3922	19
302	Valorization of agricultural wood wastes as electrodes for electrochemical capacitors by chemical activation with H3PO4 and KOH. 2020 , 54, 401-420	8
301	Potentiodynamic polarization assisted phosphorus-containing amorphous trimetal hydroxide nanofibers for highly efficient hybrid supercapacitors. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 5721-5733	24
300	Direct synthesis of nitrogen-doped mesoporous carbons from triazine-functionalized resol for CO uptake and highly efficient removal of dyes. 2020 , 391, 122163	57
299	Large Capacity Enhancement of Carbon Electrodes by Solution Processing for High Density Energy Storage. 2020 , 12, 10211-10223	7
298	De novo fabrication of multi-heteroatom-doped carbonaceous materials via an in situ doping strategy. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 4740-4746	7
297	Improving the activity in hydrodechlorination of Pd/C catalysts by nitrogen doping of activated carbon supports. 2020 , 8, 103689	14
296	Fabrication of a fibrous MnO2@MXene/CNT electrode for high-performance flexible supercapacitor. 2020 , 46, 11874-11881	37
295	Nitrogen-rich hierarchically porous carbon foams as high-performance electrodes for lithium-based dual-ion capacitor. 2020 , 48, 187-194	21
294	Dual-Strategy to Construct Aqueous-Based Symmetric Supercapacitors with High Volumetric Energy Density. 2020 , 7, 838-845	5

293	Diphenylmethane-based cross-linked polyisocyanide: synthesis and application as nitrite electrochemical probe and N-doped carbon precursor. 2020 , 55, 5021-5037		8
292	Novel synthesis route for preparation of porous nitrogen-doped carbons from lignocellulosic wastes for high performance supercapacitors. 2020 , 827, 154116		15
291	An environmentally friendly strategy to prepare nitrogen-rich hierarchical porous carbon for high-performance supercapacitors. 2020 , 56, 2182-2185		15
290	Hierarchical N-Doped Porous Carbons for Zn-Air Batteries and Supercapacitors. 2020 , 12, 20		43
289	Applications of metalBrganic framework-derived materials in fuel cells and metal-air batteries. 2020 , 409, 213214		97
288	Synthesis of Multiporous Carbons from the Water Caltrop Shell for High-Performance Supercapacitors. <i>ACS Omega</i> , 2020 , 5, 10626-10632	3.9	9
287	Metal-free heteroatom-doped carbon-based catalysts for ORR: A critical assessment about the role of heteroatoms. 2020 , 165, 434-454		109
286	Self-template synthesis of nitrogen-doped porous carbon derived from rice husks for the fabrication of high volumetric performance supercapacitors. <i>Journal of Energy Storage</i> , 2020 , 30, 10140	5 ^{7.8}	24
285	Chemically modified self-doped biocarbon via novel sulfonation assisted sacrificial template method for high performance flexible all solid-state supercapacitor. 2020 , 574, 33-42		31
284	Transforming polystyrene waste into 3D hierarchically porous carbon for high-performance supercapacitors. 2020 , 253, 126755		32
283	Facile and scalable green synthesis of N-doped graphene/CNTs nanocomposites via ball milling. 2021 , 12, 1017-1024		8
282	One-step synthesis of in-situ N, S self-doped carbon nanosheets with hierarchical porous structure for high performance supercapacitor and oxygen reduction reaction electrocatalyst. <i>Electrochimica Acta</i> , 2021 , 366, 137404	6.7	16
281	A novel in-situ preparation of N-rich spherical porous carbon as greatly enhanced material for high-performance supercapacitors. 2021 , 171, 62-71		31
280	PdAg alloy nanoparticles encapsulated in N-doped microporous hollow carbon spheres for hydrogenation of CO2 to formate. 2021 , 283, 119628		23
279	Hierarchical Porous Carbon Materials Prepared by Direct Carbonization of Metal®rganic Frameworks as an Electrode Material for Supercapacitors. 2021 , 42, 309-314		8
278	Nitrogen-doped porous biochar derived from marine algae for efficient solid-phase microextraction of chlorobenzenes from aqueous solution. 2021 , 407, 124785		27
277	Key role of nitrogen in conductivity of carbon-nitrogen materials. <i>Diamond and Related Materials</i> , 2021 , 111, 108183	3.5	1
276	Electrochemical performance of N-doped superporous activated carbons in ionic liquid-based electrolytes. <i>Electrochimica Acta</i> , 2021 , 368, 137590	6.7	2

275	Influence of counter ions of ammonium for nitrogen doping and carbon properties in hydrothermal carbonization: characterization and supercapacitor performance. 2021 , 2, 384-397	6
274	Optimization of specific capacitance and water splitting efficiency of N-enriched carbon by incorporating oxides of transition metals via an ancient chemical technique. 2021 , 880, 114929	1
273	Nitrogen, phosphorus and sulfur tri-doped hollow carbon nanocapsules derived from core@shell zeolitic imidazolate framework@poly(cyclotriphosphazene-co-4,4?-sulfonyldiphenol) for advanced supercapacitors. <i>Electrochimica Acta</i> , 2021 , 367, 137507	4
272	Cold-Resistant Nitrogen/Sulfur Dual-Doped Graphene Fiber Supercapacitors with Solar-Thermal Energy Conversion Effect. 2021 , 27, 3473-3482	4
271	Defect-rich N-doped porous carbon derived from alginate by HNO3 etching combined with a hard template method for high-performance supercapacitors. 2021 , 260, 124121	9
270	Synthesis of iron oxide cubes/reduced graphene oxide composite and its enhanced lithium storage performance. 2021 , 32, 113-118	9
269	Porous and ultrafine nitrogen-doped carbon nanofibers from bacterial cellulose with superior adsorption capacity for adsorption removal of low-concentration 4-chlorophenol. 2021 , 420, 127411	17
268	In situ demonstration of anodic interface degradation during water electrolysis: Corrosion and passivation. <i>Electrochimica Acta</i> , 2021 , 365, 137276	5
267	Aqueous adsorption of sulfamethoxazole on an N-doped zeolite beta-templated carbon. 2021 , 582, 467-477	14
266	Porous N self-doped carbon materials for high-performance supercapacitors via nanosized silica template combined with pyrolysis method. <i>Journal of Materials Science: Materials in Electronics</i> , 2.1 2021 , 32, 2774-2783	1
265	Metal phosphides: topical advances in the design of supercapacitors. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 20241-20276	9
264	Salt sealing strategy to prepare N,O-codoped porous bio-carbon derived from Ephedra Herb for supercapacitors. 2021 , 45, 16648-16657	2
263	Preparation of High Capacitive Performance Porous Carbon Assisted by Sodium Dodecyl Sulfate. 2021 , 79, 778	
262	Recent advances in metal-free heteroatom-doped carbon heterogonous catalysts 2021 , 11, 23725-23778	3
261	High-performance ultracapacitor electrodes realized by 3-dimensionally bicontinuous block copolymer nanostructures with enhanced ion kinetics. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 16119-16128	0
260	A safe and robust dual-network hydrogel electrolyte coupled with multi-heteroatom doped carbon nanosheets for flexible quasi-solid-state zinc ion hybrid supercapacitors. 2021 , 13, 15869-15881	3
259	A high energy flexible symmetric supercapacitor fabricated using N-doped activated carbon derived from palm flowers. 2021 , 3, 5417-5429	5
258	Electronic properties of N-rich graphene nano-chevrons. 2021 , 23, 13204-13215	1

257	Sulfonic acid functionalized graphitic carbon nitride as solid acidBase bifunctional catalyst for Knoevenagel condensation and multicomponent tandem reactions. 2021 , 5, 6265-6278		19
256	Nanoporous nitrogen-doped graphitic carbon hollow spheres with enhanced electrochemical properties.		O
255	The synthesis and electrochemical properties of low-crystallinity iron silicate derived from reed leaves as a supercapacitor electrode material. 2021 , 50, 8917-8926		7
254	Chemical supercapacitors: a review focusing on metallic compounds and conducting polymers. Journal of Materials Chemistry A, 2021 , 9, 1970-2017	13	67
253	History and Perspectives on Ultrafast Supercapacitors for AC Line Filtering. 2021 , 11, 2003306		9
252	Envisaging Future Energy Storage Materials for Supercapacitors: An Ensemble of Preliminary Attempts. 2021 , 6, 1127-1161		3
251	The electrochemical performance enhancement of carbon anode by hybrid from battery and capacitor through nitrogen doping. 2021 , 27, 1393-1401		0
250	Synthesis and Photophysical Properties of Soluble N-Doped Rubicenes via Ruthenium-Catalyzed Transfer Hydrogenative Benzannulation. 2021 , 27, 4898-4902		5
249	Chitosan gel synthesis nitrogen-doped porous carbon as electrode materials for supercapacitors. 1-8		0
248	Layered materials and their heterojunctions for supercapacitor applications: a review. 1-32		4
247	Recent trends in Nitrogen doped polymer composites: a review. 2021 , 28, 1		2
246	Functionalized Carbon Materials in Syngas Conversion. 2021 , 17, e2007527		8
245	High-Performance and High-Voltage Supercapacitors Based on N-Doped Mesoporous Activated Carbon Derived from Dragon Fruit Peels. <i>ACS Omega</i> , 2021 , 6, 7615-7625	3.9	15
244	Electric Double Layer Capacitors Based on Porous Three-Dimensional Graphene Materials for Energy Storage. 2021 , 50, 3043-3063		3
243	Pyridinic- and Pyrrolic Nitrogen in Pyrogenic Carbon Improves Electron Shuttling during Microbial Fe(III) Reduction. 2021 , 5, 900-909		1
242	Hierarchical Lignin-Based Carbon Matrix and Carbon Dot Composite Electrodes for High-Performance Supercapacitors. <i>ACS Omega</i> , 2021 , 6, 7851-7861	3.9	5
241	Iron induced porosity of the templated carbon for enhancement of electrochemical capacitance. 2021 , 543, 148565		1
240	The Improvement of Energy Storage Performance by Sucrose-Derived Carbon Foams via Incorporating Nitrogen Atoms. 2021 , 11,		3

239	Polyanilinepoly(styrene sulfonate) hydrogel derived hierarchically porous N, S-codoped carbon for high-performance supercapacitors. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 8916-8931	2
238	Porous monoliths of 3D graphene for electric double-layer supercapacitors. 2021 , 3, 193-224	6
237	Sulfur- and nitrogen-doped rice husk-derived C/SiOx composites as high-performance lithium-ion battery anodes. 2021 , 361, 115548	9
236	Tantalum pentoxide functionalized nitrogen-doped reduced graphene oxide as a competent electrode material for enhanced specific capacitance in a hybrid supercapacitor device. 2021 , 861, 158572	4
235	N-doped MWCNTs from catalyst-free, direct pyrolysis of commercial glue. 2021 , 262, 124319	O
234	Pomelo peel-derived lamellar carbon with surface oxygen functional groups for high-performance supercapacitors. 2021 , 127, 1	2
233	Large-surface-area activated carbon with high density by electrostatic densification for supercapacitor electrodes. 2021 , 175, 281-288	25
232	Controllable preparation of nitrogen-doped hierarchical and honeycomb-like porous carbon/graphene based on composites of graphene oxide and polyaniline nanorod arrays for high 7.8 performance supercapacitors. <i>Journal of Energy Storage</i> , 2021 , 36, 102314	5
231	Cornhusk mesoporous activated carbon electrodes and seawater electrolyte: The sustainable sources for assembling retainable supercapacitor module. 2021 , 490, 229518	26
230	Hierarchical porous nitrogen-doped graphite from tissue paper as efficient electrode material for symmetric supercapacitor. 2021 , 492, 229670	8
229	Nitrogen-doped interpenetrating porous carbon/graphene networks for supercapacitor applications. 2021 , 409, 127891	23
228	Hybrid supercapacitors using electrodes from fibers comprising polymer blend-metal oxide composites with polymethacrylic acid as chelating agent. 2021 , 32,	2
227	EFFECT OF STRUCTURE AND SURFACE STATE OF NITROGEN DOPED CARBON NANOTUBES ON THEIR FUNCTIONAL AND CATALYTIC PROPERTIES. 2021 , 62, 771-781	2
226	The ordered mesoporous carbon nitride-graphene aerogel nanocomposite for high-performance supercapacitors. 2021 , 494, 229741	9
225	Flexible All-Solid-State Supercapacitor Fabricated with Nitrogen-Doped Carbon Nanofiber Electrode Material Derived from Polyacrylonitrile Copolymer. 2021 , 4, 5830-5839	2
224	Biochar as a low-cost adsorbent for aqueous heavy metal removal: A review. 2021 , 155, 105081	66
223	Nitrogen-Doped Porous Carbon Derived from Cellulose Microfibers of Rice Straw for High-Performance Electrodes of Supercapacitors. 2021 , 35, 10190-10198	3
222	High-Performance All-Solid-State Supercapacitor Electrode Materials Using Freestanding Electrospun Carbon Nanofiber Mats of Polyacrylonitrile and Novolac Blends. 2021 , 306, 2100040	2

221	Activated carbon fiber yarns with birnessite-type MnO2 and oxygen-functional groups for high-performance flexible asymmetric supercapacitors. <i>Diamond and Related Materials</i> , 2021 , 115, 1083 ⁷ 1 ⁵	5
220	Nitrogen release and pore formation through KOH activation of nitrogen-doped carbon materials: an evaluation of the literature. 2021 , 31, 581	8
219	One-Dimensional (1D) Nanostructured Materials for Energy Applications. 2021 , 14,	8
218	Energy storage in metal cobaltite electrodes: Opportunities & challenges in magnesium cobalt oxide. 2021 , 141, 110798	24
217	Metal-Organic Framework as a Functional Analyte Channel of Organic-Transistor-Based Air Pollution Sensors. 2021 , 13, 24005-24012	4
216	N-doped reduced graphene oxide (rGO) wrapped carbon microfibers as binder-free electrodes for flexible fibre supercapacitors and sodium-ion batteries. <i>Journal of Energy Storage</i> , 2021 , 37, 102453	11
215	Silica-Confined Activation for Biomass-Derived Porous Carbon Materials for High-Performance Supercapacitors. 2021 , 8, 2028-2033	0
214	High-Performance Supercapacitor Electrodes Prepared From Dispersions of Tetrabenzonaphthalene-Based Conjugated Microporous Polymers and Carbon Nanotubes. 2021 ,	35
213	Tailoring nanostructured transition metal phosphides for high-performance hybrid supercapacitors. 2021 , 38, 101201	19
212	Bandgap engineering of two-dimensional C3N bilayers. 2021 , 4, 486-494	6
211	Porous carbonized egg white as efficient electrocatalyst for oxygen reduction reaction. 2021 , 46, 21112-2112	231
210	Synthesis of multiple heteroatomfloped mesoporous carbon/silica composites for supercapacitors. 2021 , 414, 128796	29
209	Pseudocapacitive Mn-Co mixed oxides obtained by thermal decomposition of manganese hexacyanocobaltate in presence of carbon structures. <i>Electrochimica Acta</i> , 2021 , 380, 138218	3
208	Advances in bio-waste derived activated carbon for supercapacitors: Trends, challenges and prospective. 2021 , 169, 105548	22
207	Laminar N-Doped Carbon Materials from a Biopolymer for Use as a Catalytic Support for Hydrodechlorination Catalysts. 2021 , 14,	O
206	Aqueous Nd capture using a carboxyl-functionalized porous carbon derived from ZIF-8. 2021 , 594, 702-712	3
205	Recent Advances on Heteroatom-Doped Porous Carbon/Metal Materials: Fascinating Heterogeneous Catalysts for Organic Transformations. 2021 , 21, 1985-2073	7
204	Nest-like N-doped hierarchical porous active carbon formed by sacrifice template for enhanced supercapacitor. 2021 , 27, 4461-4471	1

203	Soybean root-derived N, O co-doped hierarchical porous carbon for supercapacitors. 2021 , 555, 149726		21
202	Biosugarcane-based carbon support for high-performance iron-based Fischer-Tropsch synthesis. 2021 , 24, 102715		2
201	Preparation and property of N-doped porous carbon material by one-step pyrolysis of protein-rich algal biomass. 2021 , 157, 105221		3
200	Designing porous carbon-based multicomponent electrode material for high performance supercapacitor. <i>Journal of Energy Storage</i> , 2021 , 40, 102698	7.8	4
199	Hotpots and trends of covalent organic frameworks (COFs) in the environmental and energy field: Bibliometric analysis. 2021 , 783, 146838		4
198	Dual-template endowing N, O co-doped hierarchically porous carbon from potassium citrate with high capacitance and rate capability for supercapacitors. 2021 , 417, 129289		23
197	Embedding Pd-Cu Alloy Nanoparticles in Shell of Surface-Porous N-Doped Carbon Nanosphere for Selective Hydrogenation of p-Chloronitrobenzene. 2021 , 39, 2843-2851		1
196	B,N-Codoped Porous C with Controllable N Species as an Electrode Material for Supercapacitors. 2021 , 60, 13252-13261		4
195	Co-assembly-driven nanocomposite formation techniques toward mesoporous nanosphere engineering: A review. 2021 , 324, 111312		2
194	Construction of copper porphyrin-linked conjugated microporous polymer/carbon nanotube composite as flexible electrodes for supercapacitors. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 24953	2.1	5
193	A high-voltage and high-capacity Ti3C2Tx/BiCuS2.5 heterostructure to boost up the energy density and recyclability of zinc-ion-hybrid capacitors. 2021 , 87, 106136		6
192	Fabrication of nitrogen doped and hierarchically porous carbon flowers for CO2 adsorption. 2021 , 51, 101617		5
191	Performance enhancement of graphene/GO/rGO based supercapacitors: A comparative review. 2021 , 28, 102685		4
190	From coconut shell biomass to oxygen reduction reaction catalyst: Tuning porosity and nitrogen doping. 2021 , 147, 111173		12
189	Plasma-Engineered Organic Dyes as Efficient Polysulfide-Mediating Layers for High Performance Lithium-Sulfur Batteries. 2021 , 132679		1
188	Superior energy-power performance of N-doped carbon nano-onions-based asymmetric and symmetric supercapacitor devices. <i>International Journal of Energy Research</i> ,	4.5	4
187	Combined effect of nitrogen-doped functional groups and porosity of porous carbons on electrochemical performance of supercapacitors. 2021 , 11, 18387		5
186	One-pot pyrolysis of a typical invasive plant into nitrogen-doped biochars for efficient sorption of phthalate esters from aqueous solution. 2021 , 280, 130712		10

185	Fe3O4@N-porous carbon nano rice/rGO sheet as positive electrode material for a high performance supercapattery. 2021 , 879, 160264	4
184	Nitrogen, sulfur co-doped hierarchical carbon encapsulated in graphene with "sphere-in-layer" interconnection for high-performance supercapacitor. 2021 , 599, 443-452	23
183	In-plane ordering and nature of N-doping in hard carbon synthesized at low temperature govern the sodium-ion intercalation. 2021 , 899, 115669	О
182	A green route to synthesize nitrogen-enriched graphene-like carbon nanosheets from bio-oil for supercapacitors. <i>Diamond and Related Materials</i> , 2021 , 118, 108530	1
181	Nickel silicate hydroxide on hierarchically porous carbon derived from rice husks as high-performance electrode material for supercapacitors. 2021 , 46, 35351-35364	3
180	Sulfur and nitrogen co-doped three-dimensional graphene aerogels for high-performance supercapacitors: A head to head vertical bicyclic molecule both as pillaring agent and dopant. 2021 , 565, 150453	4
179	Foam-like porous carbons with ultrahigh surface area from petroleum pitch and their supercapacitive performance. 2021 , 783, 139058	2
178	Stimulation of pyrolytic carbon materials as electron shuttles on the anaerobic transformation of recalcitrant organic pollutants: A review. 2021 , 801, 149696	4
177	Advanced opportunities and insights on the influence of nitrogen incorporation on the physico-/electro-chemical properties of robust electrocatalysts for electrocatalytic energy conversion. 2021 , 449, 214209	7
176	Enhanced desalination performance of nitrogen-doped porous carbon electrode in redox-mediated deionization. 2021 , 520, 115333	2
175	Dual heteroatoms doped SBA-15 templated porous carbon for symmetric supercapacitor in dual redox additive electrolyte. 2022 , 606, 286-297	5
174	Nitrogen/phosphorus co-doped porous carbon materials for supercapacitor electrodes. 2021 , 45, 7239-7246	1
173	Simultaneous gas expansion and nitrogen doping strategy to prepare licorice root residues-derived nitrogen doped porous carbon for supercapacitors. 2021 , 45, 15469-15474	3
172	Boosting the Supercapacitance of Nitrogen-Doped Carbon by Tuning Surface Functionalities. 2017 , 10, 4018-4024	28
171	Improved thermal stability of melamine resin spheres and electrochemical properties of their carbon derivatives induced by F127. 2020 , 55, 12114-12126	4
170	Nanoengineered textiles: from advanced functional nanomaterials to groundbreaking high-performance clothing. 2020 , 611-714	4
169	Nitrogen doped heat treated and activated hydrothermal carbon: NEXAFS examination of the carbon surface at different temperatures. 2018 , 128, 179-190	26
168	Highly robust and efficient Ti-based Sb-SnO2 anode with a mixed carbon and nitrogen interlayer for electrochemical 1,4-dioxane removal from water. 2020 , 393, 124794	19

(2021-2020)

167	A new method for urine electrofiltration and long term power enhancement using surface modified anodes with activated carbon in ceramic microbial fuel cells. <i>Electrochimica Acta</i> , 2020 , 353, 136388	6.7	13
166	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
165	Quasi 2D Mesoporous Carbon Microbelts Derived from Fullerene Crystals as an Electrode Material for Electrochemical Supercapacitors. 2017 , 9, 44458-44465		43
164	Nickel-catalyzed oxidative C-H/N-H annulation of -heteroaromatic compounds with alkynes. 2019 , 10, 3242-3248		35
163	Molten salt-confined pyrolysis towards carbon nanotube-backboned microporous carbon for high-energy-density and durable supercapacitor electrodes. 2021 , 32, 095605		4
162	Biomass-derived nitrogen-doped porous carbons (NPC) and NPC/ polyaniline composites as high performance supercapacitor materials. 2018 ,		59
161	self-assembled N-rich carbon on pristine graphene as a highly effective support and cocatalyst of short Pt nanoparticle chains for superior electrocatalytic activity toward methanol oxidation. 2021 , 13, 18332-18339		2
160	Investigation on NiWO4/PANI composite as an electrode material for energy storage devices. 2021 , 45, 20612-20623		1
159	Nitrogen-Doped Carbon Networks with Consecutive Conductive Pathways from a Facile Competitive Carbonization-Etching Strategy for High-Performance Energy Storage. 2021 , e2104375		3
158	Synchronous-ultrahigh conductive-reactive N-atoms doping strategy of carbon nanofibers networks for high-performance flexible energy storage. 2022 , 44, 250-262		6
157	Green synthesis of nitrogen-doped hierarchical porous carbon nanosheets derived from polyvinyl chloride towards high-performance supercapacitor. 2021 , 515, 230629		3
156	Used carbon water filter source for high performance microporous activated carbon electrode for aqueous supercapacitor. <i>Journal of Energy Storage</i> , 2021 , 44, 103399	7.8	2
155	Simple one-pot strategy for converting biowaste into valuable graphitized hierarchically porous biochar for high-efficiency capacitive storage. <i>Journal of Energy Storage</i> , 2021 , 44, 103259	7.8	1
154	Functionalization of MOF Derived Porous Carbon Materials for Supercapacitors. 2020,		
153	Enhanced electrochemical performance of aminophenol-modified ZnO as electrode material for supercapacitors. 1		1
152	Preparation of Sulfur-doped Carbon for Supercapacitor Applications: A Review. 2021,		4
151	Plasma Nitrogen Doping of Nanostructured Reduced Graphene Oxide. 2020 , 15, 735-740		2
150	Ionic Transport Triggered by Asymmetric Illumination on 2D Nano-Membrane. 2021 , 26,		

149	Biomass Peach Gum-Derived Heteroatom-Doped Porous Carbon via In Situ Molten Salt Activation for High-Performance Supercapacitors. 2021 , 35, 19801-19810	O
148	N-doped porous carbon chain with 3D interconnected network structure to modify expanded graphite for efficient thermal energy storage materials. <i>Journal of Energy Storage</i> , 2021 , 103634	O
147	High-performance asymmetric supercapacitor achieved by CoS2 nanoparticles decorated polyaniline functionalized SBA-15-derived mesoporous nitrogen-doped carbon with rod-like architectures. 2021 , 162773	1
146	Construction of sublimable pure organic ionic material with high solid luminescence efficiency based on anion-⊞ interactions tuning strategy. 2021 , 433, 133646	2
145	Effect of electrolyte concentration on the electrochemical performance of RGOKOH supercapacitor. 2021 , 44, 1	6
144	Fabrication of high density and nitrogen-doped porous carbon for high volumetric performance supercapacitors. <i>Journal of Energy Storage</i> , 2021 , 103657	1
143	A Low-Temperature Dehydration Carbon-Fixation Strategy for Lignocellulose-Based Hierarchical Porous Carbon for Supercapacitors. 2021 ,	4
142	Porous NiCoO2 nanospheres encapsulated in nitrogen-doped carbon shell achieving high energy storage for aqueous supercapacitors and zinc[bn batteries. 2022 , 582, 152456	О
141	Intertwined carbon networks derived from Polyimide/Cellulose composite as porous electrode for symmetrical supercapacitor. 2021 , 609, 179-187	9
140	Mixed Kaolin-Halloysite Derived Nitrogen-Doped Activated Nanoporous Carbons with Flake and Tubular Morphology for Supercapacitor and CO 2 Capture Applications. <i>SSRN Electronic Journal</i> ,	
139	A critical review on production, modification and utilization of biochar. 2022 , 161, 105405	4
138	Polyoxometalate-based materials in extraction, and electrochemical and optical detection methods: A review 2022 , 1209, 339509	3
137	Pore size matters! Critical review on the supercapacitive charge storage enhancement of biocarbonaceous materials. 1-56	2
136	Hierarchical 3D PAni /N-doped graphene nanocomposite hydrogel for energy storage applications.	O
135	Facile construction and controllable design of CoTiO3@Co3O4/NCNO hybrid heterojunction nanocomposite electrode for high-performance supercapacitors. <i>Electrochimica Acta</i> , 2022 , 407, 139868 ^{6.7}	4
134	Metal coordination in CN-like materials towards dual atom catalysts for oxygen reduction <i>Journal of Materials Chemistry A</i> , 2022 , 10, 6023-6030	1
133	Graphene Quantum Dot Inlaid Carbon Nanofibers: Revealing the Edge Activity for Ultrahigh Rate Pseudocapacitive Energy Storage. 2022 , 47, 158-158	1
132	Direct chemical synthesis of nitrogen-doped graphynes with high supercapacitance via a cross-coupling copolymerization strategy. 2022 , 435, 135121	O

131	Preparation of Dual-Doped N/P Two-Dimensional Porous Carbon Nanosheets for High-Performance Alkaline Supercapacitors. 2022 , 5, 137-148	4
130	Synthesis of nitrogen-doped carbons from single-source precursors by solution plasma. 2022 , 475-505	
129	Effect of electrolyte concentration on the electrochemical performance of RGO-Na2SO4 supercapacitor. 2022 , 54, 958-962	
128	An overview of metal-free sustainable nitrogen-based catalytic knoevenagel condensation reaction 2022 ,	3
127	Doping of Carbon Nanostructures for Energy Application. 2022 , 83-109	
126	Structural and Electrochemical Characteristics of Platinum Nanoparticles Supported on Various Carbon Carriers. 2022 , 8, 14	1
125	Unraveling the role of nitrogen-doped carbon nanowires incorporated with MnO 2 nanosheets as high performance cathode for zinc ion batteries.	О
124	Metal-Free Chemoselective Reduction of Nitroarenes Catalyzed by Covalent Triazine Frameworks: The Role of Embedded Heteroatoms 2022 ,	Ο
123	A Study on Graphene Structure Control Using Ammonia Gas for a Highly Sensitive Pressure Sensor. 2022 , 60, 206-212	O
122	Giant Narrow-Band Optical Absorption and Distinctive Excitonic Structures of Monolayer C3N and . 2022 , 17,	Ο
121	Influence of thermal treatment atmosphere on N-doped carbon spheres for wastewater treatment and supercapacitor applications. 2022 , 284, 126037	0
120	Morphologically tunable nanoarchitectonics of mixed kaolin-halloysite derived nitrogen-doped activated nanoporous carbons for supercapacitor and CO2 capture applications. 2022 , 192, 133-144	1
119	Selective removal of Sr(II) from saliferous radioactive wastewater by capacitive deionization 2022 , 431, 128591	1
118	Eggshell membrane derived nitrogen rich porous carbon for selective electrosorption of nitrate from water 2022 , 216, 118351	1
117	Nanoarchitectonics of polyaniline-derived porous carbons for efficient adsorptive denitrogenation of liquid fuel. 2022 , 320, 123970	0
116	Schiff-bases for sustainable battery and supercapacitor electrodes. 2021 , 1, 20210128	2
115	Study of the Impact of Graphite Orientation and Ion Transport on EDLC Performance 2021, 15,	
114	A General Synthesis of Mesoporous Hollow Carbon Spheres with Extraordinary Sodium Storage Kinetics by Engineering Solvation Structure 2021 , e2106513	О

Improving the Electrochemical Performances of Supercapacitors through Modification of the Particle Size Distribution of the Carbon Electrode. **2021**, 927, 012044

112	Mesoporous carbons from self-assembled polymers.	1
111	Electrochemical Capacitors with Confined Redox Electrolytes and Porous Electrodes 2022, e2202380	3
110	Facile preparation of ternary heterostructured Au/polyoxometalate/nitrogen- doped hollow carbon sphere nanohybrids for the acetaminophen detection. 2022 , 129029	3
109	Bottom-up synthesis of carbon materials with high pyridinic-nitrogen content from dibenzacridine isomers with zigzag and armchair edges. 2022 , 57, 7503-7530	О
108	Data_Sheet_1.pdf. 2020 ,	
107	Presentation_1.pdf. 2019 ,	
106	Data_Sheet_1.PDF. 2020 ,	
105	N-doped graphitized porous carbon derived from N-rich polymer for improved supercapacitor performance.	О
104	Progress on organic potassium salts involved synthesis of porous carbon nanomaterials: microstructure engineering for advanced supercapacitors.	2
103	Advances in Carbon Nitride-Based Materials and Their Electrocatalytic Applications. 2022 , 12, 5605-5660	3
102	Plasma-Enabled Synthesis and Modification of Advanced Materials for Electrochemical Energy Storage. 2022 ,	3
101	High Performance of Functionalized Graphene Hydrogels Using Ethylenediamine for Supercapacitor Applications. 2022 , 10,	
100	Three-Dimensional Coral-Like NiFe-Layered Double Hydroxides on Biomass-Derived Nitrogen-Doped Carbonized Wood as a Sensitive Probe for Nonenzymatic Urea Determination.	1
99	Supercapacitors for Short-term, High Power Energy Storage. 2022 , 71-98	О
98	Nitrogen-Doped High Surface Area Porous Carbon Material Derived from Biomass and Ionic Liquid for High-Performance Supercapacitors.	О
97	Low-Temperature Carbonization of P-phenylenediamine Guided by Iron Alginate Template for Lithium-Ion Capacitors.	0
96	Nitrogen-doped porous nanocarbons-conducting polymer composite film electrodes for flexible supercapacitors. <i>International Journal of Energy Research</i> ,	5

95	Mechanochemistry-Driven Construction of Aza-fused EConjugated Networks Toward Enhanced Energy Storage. <i>Advanced Functional Materials</i> , 2202669	15.6	4
94	Nitrogen doping graphite oxide with 2,3-Diaminomaleonitrile: a study of the structural, morphological and electrochemical behavior. <i>Physica Status Solidi (B): Basic Research</i> ,	1.3	
93	Boron-doped activated carbon derived from Zoysia sinica for Rhodamine B adsorption: the crucial roles of defect structures. <i>FlatChem</i> , 2022 , 100390	5.1	1
92	Recent advances in metal pyrophosphates for electrochemical supercapacitors: A review. <i>Journal of Energy Storage</i> , 2022 , 52, 104986	7.8	О
91	Recent advances on heteroatom (N, B) doped carbons based hybrid catalysts for diverse applications. SSRN Electronic Journal,	1	0
90	N/O Co-doped Porous Carbons Derived from Coal Tar Pitch for Ultra-high Specific Capacitance Supercapacitors. <i>ACS Omega</i> ,	3.9	O
89	Nitrogen-doped holey graphene additive for high-performance electric double-layer supercapacitors. <i>Electrochimica Acta</i> , 2022 , 425, 140713	6.7	0
88	Transfer- and lithography-free CVD of N-doped graphenic carbon thin films on non-metal substrates. <i>Materials Research Bulletin</i> , 2022 , 154, 111943	5.1	
87	Construction of N-Doped Nickel Sulfide Nanosheets Via Pani as Nitrogen Donor to Achieve Robust Bifunctional Electrocatalysts for H2 Production. <i>SSRN Electronic Journal</i> ,	1	
86	Fabrication and Electrochemical Characterization of N/S co-doped Carbon Felts for Electric Double-Layer Capacitors. <i>Korean Journal of Materials Research</i> , 2022 , 32, 270-279	0.2	О
85	Modulation of the Electronic and Magnetic Properties of Pyridinic N-Doped Graphene with Ni/Cr. International Journal of Computational Materials Science and Engineering,	0.3	
84	Supercapacitor performance of nitrogen doped graphene synthesized via DMF assisted single-step solvothermal method. <i>FlatChem</i> , 2022 , 34, 100400	5.1	2
83	Nitrogen and Oxygen Co-doped Porous Carbon Fabric for Efficient Removal of Formaldehyde. <i>Fibers and Polymers</i> ,	2	
82	Synthesis and characterization of highly conductive poly(indole-4-aminoquinaldine) copolymer. Journal of Materials Science: Materials in Electronics,	2.1	
81	All-cellulose-based high-rate performance solid-state supercapacitor enabled by nitrogen doping and porosity tuning. <i>Diamond and Related Materials</i> , 2022 , 128, 109238	3.5	0
80	Heteroatom-Modified Carbon Materials and Their Use as Supports and Electrocatalysts in Proton Exchange Membrane Fuel Cells (A Review). <i>Russian Journal of Electrochemistry</i> , 2022 , 58, 529-561	1.2	
79	Rapid Synthesis of Oxygen-Enriched Porous Carbon Through a Microwave Method and its Application in Supercapacitors.		
78	Evaluating the Effects of Carbon Physicochemistry on the Rate Capability of Polyaniline and Phytic Acid-Derived Sodium-Ion Battery Anodes. 2022 , 36, 8449-8459		

Porous Carbon Composite Generated from Silk Fibroins and Graphene for Supercapacitors. 2022, 7, 28284-28292 77 Rechargeable Iodine Batteries: Fundamentals, Advances, and Perspectives. 76 Enhancing the Materials Circularity: From Laboratory Waste to Electrochemical Capacitors. 2022, 100221 \circ 75 Unraveling the Capacitive Charge Storage Mechanism of Nitrogen-Doped Porous Carbons by EQCM 74 and ssNMR. 2022, 144, 14217-14225 Nitrogen-doped Graphene Oxide: Production and Its Applications in One Pot Five-Component O 73 Reaction of Highly Substituted Tetrahydropyridines. 2022, 19, Nanocarbon-based electrode materials applied for supercapacitors. 72 4 A critical review on polyimide derived carbon materials for high-performance supercapacitor 71 1 electrodes. 2022, 55, 105667 One-step fabrication of N-doped activated carbon by NH3 activation coupled with air oxidation for 70 supercapacitor and CO2 capture applications. 2022, 168, 105710 Tailoring the electrocatalytic activity of mesoporous graphitic carbon nitride towards hydrogen 69 \circ evolution reaction by incorporation of amorphous carbon. 2022, 129, 109359 68 N-doped nonalternant aromatic belt via a six-fold annulative double N-arylation. 2022, 13, 9947-9951 2 MOFs-Derived Nanomaterials for Supercapacitor Applications. 2022, 1-46 67 O ReviewHeteroatom-Doped High Porous Carbon Metal Free Nanomaterials for Energy Storage 66 \circ and Conversion. **2022**, 11, 091006 Preparation of Nitrogen Doped Biochar-Based Iron Catalyst for Enhancing Gasoline-Range 65 1 Hydrocarbons Production. Nitrogen-doped carbon aerogel synthesis by solvothermal gelation for supercapacitor application. 64 Enlarging the Porosity of Metal-Organic Framework Derived Carbons for Supercapacitor 63 \circ Applications by Template-Free Ethylene Glycol Etching Method. Sulfur nano-confinement in hierarchically porous jute derived activated carbon towards 62 high-performance supercapacitor: Experimental and theoretical insights. 2022, 56, 105944 Self-Grown 1D/2D Ni(OH)2 nanofiber/nanosheet on corn stigma-derived carbon for 61 O high-performance hybrid supercapacitors. 2023, 609, 155448 General Doping Chemistry of Carbon Materials. 60

59	Toward strategical bottom-up synthesis of carbon materials with exceptionally high basal-nitrogen content: Development of screening techniques. 2023 , 203, 498-522	O
58	One-step fragmentation of a 2D MXene across the fine 1D MnO2 surface and its supercapacitance. 2022 , 25, 72-85	О
57	Facile template-free synthesis of 3D cluster-like nitrogen-doped mesoporous carbon as metal-free catalyst for selective oxidation of H2S. 2023 , 11, 109095	O
56	Data-driven design of carbon-based materials for high-performance flexible energy storage devices. 2023 , 556, 232522	O
55	Creation of nanopores and nitrogen doping in the surface layers of reduced graphene oxide electrode via ions implantation resulting in enhanced electrochemical performance for supercapacitor. 2023 , 58, 106453	1
54	Linking pyrogenic carbon redox property to arsenite oxidation: Impact of N-doping and pyrolysis temperature. 2023 , 445, 130477	О
53	WS2-Based Nanomaterials for Visible-Light Photocatalytic Degradation of Organic Pollutants. 185-205	О
52	Interactive Nanomaterials for Energy Storage and Conversion. 27-81	O
51	Efficient Design Paradigm for Harvesting Solar Energy: Dynamic Tunability of Heating/Cooling Mode Using Advanced Nanotechnology. 233-261	O
50	Recent progress of transition metal-based biomass-derived carbon composites for supercapacitor.	O
49	Effect of Alcohol Tail Length on Aggregate Behavior of Alcohol and AOT at the Water-scCO2 Interface: MD Simulation Study. 263-288	О
48	Editors Biographies. 289-290	O
47	One-Pot In Situ Synthesis of Mn3O4/N-rGO Nanohybrids for the Fabrication of High Cell Voltage Aqueous Symmetric Supercapacitors: An Analysis of Redox Activity of Mn3O4 toward Stabilizing the High Potential Window in Salt-in-Water and Water-in-Salt Electrolytes. 2022 , 36, 15177-15187	1
46	Preface. ix-x	O
45	Green Electrocatalytical Synthesis of Ammonia Using Solid Oxide Electrolysis Cells. 155-184	O
44	Atomic Layer Deposition Synthesis of Iron, Cobalt, and Nickel Chalcogenides for Electrocatalysis Applications. 117-135	О
43	Nitrogen-doped carbon aerogels derived from polyimide for high-performance supercapacitor. 2022 , 57, 21680-21692	O
42	Calix[n]arene-Based Coordination Cage and Its Application to Electrocatalysis. 137-154	O

41	Nanostructured Materials for Sustainable Energy: Design, Evaluation, and Applications.	0
40	Title, Copyright, Foreword. i-v	O
39	Two-Dimensional Metal Phosphorus Trichalcogenide Nanostructure for Sustainable Energy Conversion. 1-25	0
38	Subject Index. 295-298	o
37	Solar-Driven Photothermocatalytic Dry Reforming of Methane for Syngas Production. 207-232	O
36	Organic-Carbon Composites for Next Generation Capacitive Electrodes. 83-115	О
35	Tuning Sugar Biomass Waste Conversion for the Preparation of Carbon Materials for Supercapacitors and Catalysts for Oxygen Reduction. 2201145	1
34	Chemical blowing strategy synthesis of nitrogen-doped hierarchical porous carbon from coal tar pitch for high-performance lithium-ion batteries.	О
33	Machine learning approach to understanding the Bynergistic pseudocapacitive effects of heteroatom doped graphene. 2023 , 10, 025003	O
32	Investigation of Biomass-Derived Heteroatom-Doped Carbon Fiber Aerogel Decorated with NiCo2S4 Flowers as a Binder-Free Anode for Urea Electrooxidation: From a Sustainable Standpoint.	o
31	Liquid-to-solid conversion of biomass wastes enhanced by Thitrogen doping for the preparation of high-value-added carbon materials for energy storage with superior characteristics.	1
30	Comprehensive Review on Nitrogen-Doped Graphene: Structure Characterization, Growth Strategy, and Capacitive Energy Storage. 2023 , 37, 902-918	o
29	Development of symmetric and asymmetric supercapacitors step towards efficient and practical energy storage. 2023 , 405-456	0
28	Growth of Low-Defect Nitrogen-Doped Graphene Film Using Condensation-Assisted Chemical Vapor Deposition Method. 2023 , 16, 1120	0
27	Carbonization of MOF-5/Polyaniline Composites to N,O-Doped Carbon/ZnO/ZnS and N,O-Doped Carbon/ZnO Composites with High Specific Capacitance, Specific Surface Area and Electrical Conductivity. 2023 , 16, 1018	0
26	Graphitic carbon nitride-based nanocomposites. 2023 , 59-76	О
25	Novel designs of carbon electrodes for the technological improvement of electrochemical capacitors. 2023 , 321-358	1
24	Floating Catalyst Chemical Vapor Deposition Patterning Nitrogen-Doped Single-Walled Carbon Nanotubes for Shape Tailorable and Flexible Micro-Supercapacitors.	О

23	Collagen-Based Flexible Electronic Devices for Electrochemical Energy Storage and Sensing.	O
22	Preparation and electrochemical properties of low-temperature activated porous carbon from coal tar pitch. 2023 , 135, 109855	O
21	Controllable preparation of N-doped porous carbons with enhanced porosity and energy storage capacity using high internal phase emulsion template. 2023 , 301, 127646	O
20	Diagnostics of supercapacitors using cyclic voltammetry: Modeling and experimental applications. 2023 , 935, 117322	O
19	Facile and scalable construction of nitrogen-doped lignin-based carbon nanospheres for high-performance supercapacitors. 2023 , 343, 128007	О
18	Enhanced anticorrosion properties of composite coatings containing polyvinyl butyral and polyaniline-carbonized polyaniline. 2023 , 180, 107559	O
17	Porous graphitic carbon nitride nanosheets with three-dimensional interconnected network as electrode for supercapacitors. 2023 , 63, 106935	O
16	Green fabrication of hierarchically porous carbon microtubes from biomass waste via self-activation for high-energy-density supercapacitor. 2023 , 560, 232703	O
15	Hydrothermal nitrogen doping of anthracene oil-derived activated carbons for wide voltage asymmetric capacitors. 2023 , 60, 106704	O
14	In situ growth of N/O-codoped carbon nanotubes in wood-derived thick carbon scaffold to boost the capacitive performance. 2023 , 662, 131018	O
13	Porous and graphitic structure optimization of biomass-based carbon materials from 0D to 3D for supercapacitors: A review. 2023 , 460, 141607	O
12	Target Eurn onlelectrochemical pseudocapacitive sensor for ultrasensitive detection of microRNA-141. 2023 , 381, 133469	O
11	Recent advances in the use of nitrogen-doped carbon materials for the design of noble metal catalysts. 2023 , 481, 215053	O
10	The Integration of Biopolymer-Based Materials for Energy Storage Applications: A Review. 2023 , 24, 3975	O
9	Recent developments, challenges and future prospects of magnetic field effects in supercapacitors. 2023 , 11, 5495-5519	O
8	Bottom-up Synthesis of Pyridinic-Nitrogen Doped Carbon Materials from Brominated Two-fused-ring Aromatics at Low Carbonization Temperatures. 2023 ,	O
7	In situ synthesis of integrated dodecahedron NiO/NiCo2O4 coupled with N-doped porous hollow carbon capsule for high-performance supercapacitors. 2023 ,	O
6	Synthesis of mesopore-dominated porous carbon with ultra-high surface area via urea-assisted KOH activation. 2023 , 43, 78-91	O

5	Buckwheat core derived nitrogen- and oxygen-rich controlled porous carbon for high-performance supercapacitors. 2023 , 30, 419-433	О
4	Catalytic Cሺ/Cℍ Bond Activation Relay for Synthesis of Fluorescent Naphthoquinolizinium Salts.	О
3	Synthesis of carbon materials with extremely high pyridinic-nitrogen content and controlled edges from aromatic compounds with highly symmetric skeletons.	0
2	A review of nitrogen-doped carbon materials for lithium-ion battery anodes. 2023 , 38, 247-278	О
1	Processing, property modulation and application of one-dimensional SiC nanostructure field emitters. 2023 , 277, 112019	O