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Three-dimensional nitrogen and boron co-doped graphene for high-performance all-solid-state supercapacitors

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1068	Graphene-based macroscopic assemblies and architectures: an emerging material system. <b>2014</b> , 43, 7295-325	378
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1059	Carbon aerogels based on regenerated silk proteins and graphene oxide for supercapacitors. <b>2014</b> , 22, 509-514	26
1058	Isolated boron and nitrogen sites on porous graphitic carbon synthesized from nitrogen-containing chitosan for supercapacitors. <b>2014</b> , 7, 1637-46	105
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1050	Flexible supercapacitors based on carbon nanomaterials. <b>2014</b> , 2, 10756		337
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1046	Doping of Graphene by Nitrogen, Boron, and Other Elements. <b>2014</b> , 283-358		5
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1037	Ultra-light Hierarchical Graphene Electrode for Binder-Free Supercapacitors and Lithium-Ion Battery Anodes. <b>2015</b> , 11, 4922-30		58
1036	Ultrathin Printable Graphene Supercapacitors with AC Line-Filtering Performance. <i>Advanced Materials</i> , <b>2015</b> , 27, 3669-75	24	197
1035	Free-Standing, Multilayered Graphene/Polyaniline-Glue/Graphene Nanostructures for Flexible, Solid-State Electrochemical Capacitor Application. <b>2015</b> , 2, 1500117		54
1034	Recent Progress in Flexible Electrochemical Capacitors: Electrode Materials, Device Configuration, and Functions. <b>2015</b> , 5, 1500959		183
1033	Self-Assembled Three-Dimensional Graphene Macrostructures: Synthesis and Applications in Supercapacitors. <b>2015</b> , 48, 1666-75		388
1032	Graphitic carbon nitride nanosheet electrode-based high-performance ionic actuator. <b>2015</b> , 6, 7258		180
1031	Multifunctional glucose biosensors from Fe <sub>3</sub> O <sub>4</sub> nanoparticles modified chitosan/graphene nanocomposites. <b>2015</b> , 5, 11129		87
1030	Synthesis of fluorescent BCN hybrid nanosheets: a highly efficient fluorosensor for rapid, simple, sensitive Ag <sup>+</sup> detection. <b>2015</b> , 5, 52452-52458		11
1029	Three dimensional architectures: design, assembly and application in electrochemical capacitors. <b>2015</b> , 3, 15792-15823		125
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1026	Three-dimensional Fe <sub>3</sub> O <sub>4</sub> -graphene macroscopic composites for arsenic and arsenate removal. <b>2015</b> , 298, 28-35		133
1025	Precursor-controlled and template-free synthesis of nitrogen-doped carbon nanoparticles for supercapacitors. <b>2015</b> , 5, 50063-50069		24
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1023	An evaporation-induced tri-consistent assembly route towards nitrogen-doped carbon microfibers with ordered mesopores for high performance supercapacitors. <b>2015</b> , 17, 4724-9		14
1022	Polyaniline Coated Boron Doped Biomass Derived Porous Carbon Composites for Supercapacitor Electrode Materials. <b>2015</b> , 54, 12570-12579		65
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1018	Heavily nitrogen doped, graphene supercapacitor from silk cocoon. <b>2015</b> , 160, 244-253	150
1017	Ultrafast Self-Assembly of Graphene Oxide-Induced Monolithic NiCo <sub>2</sub> Carbonate Hydroxide Nanowire Architectures with a Superior Volumetric Capacitance for Supercapacitors. <b>2015</b> , 25, 2109-2116	199
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1014	An evaporation-induced tri-constituent assembly approach to fabricate an ordered mesoporous carbon/graphene aerogel for high-performance supercapacitors. <b>2015</b> , 5, 16765-16768	9
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1012	Progress in the preparation and application of three-dimensional graphene-based porous nanocomposites. <b>2015</b> , 7, 5563-77	107
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982	One-step synthesis of polyhydroquinone-graphene hydrogel composites for high performance supercapacitors. <b>2015</b> , 3, 16033-16039		29
981	Flexible and cross-linked N-doped carbon nanofiber network for high performance freestanding supercapacitor electrode. <b>2015</b> , 15, 66-74		309
980	A three-dimensional amylopectin-reduced graphene oxide framework for efficient adsorption and removal of hemoglobin. <b>2015</b> , 3, 983-989		30
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976	Wet-spinning of continuous montmorillonite-graphene fibers for fire-resistant lightweight conductors. <b>2015</b> , 9, 5214-22		100
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682	New insights on laser-induced graphene electrodes for flexible supercapacitors: tunable morphology and physical properties. <b>2017</b> , 28, 174002	58
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680	Boron and nitrogen co-doped porous carbon with a high concentration of boron and its superior capacitive behavior. <b>2017</b> , 113, 266-273	110
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678	In situ immobilized, magnetite nanoplatelets over holey graphene nanoribbons for high performance solid state supercapacitor. <b>2017</b> , 224, 517-526	23

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676	Nitrogen-doped reduced graphene oxide as electrode material for high rate supercapacitors. <b>2017</b> , 399, 265-271	71
675	Multifunctional structural supercapacitor based on graphene and geopolymer. <b>2017</b> , 224, 105-112	31
674	Three-dimensional structures of graphene/polyaniline hybrid films constructed by steamed water for high-performance supercapacitors. <b>2017</b> , 342, 1-8	123
673	Pine needle-derived microporous nitrogen-doped carbon frameworks exhibit high performances in electrocatalytic hydrogen evolution reaction and supercapacitors. <b>2017</b> , 9, 1237-1243	121
672	Molecular-Level Design of Hierarchically Porous Carbons Codoped with Nitrogen and Phosphorus Capable of In Situ Self-Activation for Sustainable Energy Systems. <b>2017</b> , 13, 1602010	37
671	Biomass derived carbon for energy storage devices. <b>2017</b> , 5, 2411-2428	474
670	Three-Dimensional Networked Metal-Organic Frameworks with Conductive Polypyrrole Tubes for Flexible Supercapacitors. <b>2017</b> , 9, 38737-38744	228
669	Effects of multiple heteroatom species and topographic defects on electrocatalytic and capacitive performances of graphene. <b>2017</b> , 366, 143-150	17
668	Hierarchical structured, nitrogen-incorporated graphene aerogel for high performance supercapacitor. <b>2017</b> , 25, 1043-1048	9
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665	Stabilized Lithium-Sulfur Batteries by Covalently Binding Sulfur onto the Thiol-Terminated Polymeric Matrices. <b>2017</b> , 13, 1702104	29
664	High coulombic efficiency and high-rate capability lithium sulfur batteries with low-solubility lithium polysulfides by using alkylene radicals to covalently connect sulfur. <b>2017</b> , 41, 758-764	29
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662	Tailorable coaxial carbon nanocables with high storage capabilities. <b>2017</b> , 5, 22125-22130	3
661	Hierarchical 1T-MoS <sub>2</sub> nanotubular structures for enhanced supercapacitive performance. <b>2017</b> , 5, 23704-23711	47
660	3D printing technologies for electrochemical energy storage. <b>2017</b> , 40, 418-431	253

659	Low-cost superior symmetric solid-state supercapacitors based on MWCNTs/MnO <sub>2</sub> nanocomposite thin film. <b>2017</b> , 80, 503-510	33
658	Nitrogen and Sulfur Doped Mesoporous Carbons, Prepared from Templating Silica, as Interesting Material for Supercapacitors. <b>2017</b> , 2, 7082-7090	17
657	Graphene Growth by Conversion of Aromatic Self-Assembled Monolayers. <b>2017</b> , 529, 1700168	7
656	Recent Progress on Flexible and Wearable Supercapacitors. <b>2017</b> , 13, 1701827	260
655	Fabrication of Hierarchical Porous Carbon Nanoflakes for High-Performance Supercapacitors. <b>2017</b> , 9, 34944-34953	57
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653	Self-assembled 3D hierarchical nanostructure of reduced GO nanosheets intercalated with CDs for high-rate supercapacitor electrodes. <b>2017</b> , 727, 991-997	6
652	A coordination polymer based on dinuclear (pyrazinyl tetrazolate) copper(ii) cations and Wells-Dawson anions for high-performance supercapacitor electrodes. <b>2017</b> , 46, 13897-13902	37
651	Maghemite/nitrogen-doped graphene hybrid material as a reusable bifunctional catalyst for glycolysis of polyethylene terephthalate. <b>2017</b> , 144, 434-441	22
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648	Nitrogen-enriched flexible porous carbon/graphene composite cloth as free-standing electrodes for high performance aqueous supercapacitors. <b>2017</b> , 801, 57-64	9
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638	Rod-like polyaniline supported on three-dimensional boron and nitrogen-co-doped graphene frameworks for high-performance supercapacitors. <b>2017</b> , 19, 1	5
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623	The preparation and characteristic of poly (3,4-ethylenedioxythiophene)/reduced graphene oxide nanocomposite and its application for supercapacitor electrode. <b>2017</b> , 216, 16-22	51
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604	Light metal decoration on nitrogen/sulfur codoped graphyne: An efficient strategy for designing hydrogen storage media. <b>2018</b> , 101, 167-173	10
603	Functional integration and self-template synthesis of hollow core-shell carbon mesoporous spheres/FeO/nitrogen-doped graphene to enhance catalytic activity in DSSCs. <b>2018</b> , 10, 7946-7956	42
602	B/N co-doped carbon nanosphere frameworks as high-performance electrodes for supercapacitors. <b>2018</b> , 6, 8053-8058	89
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581	Nitrogen-doped porous microsphere carbons derived from glucose and aminourea for high-performance supercapacitors. <b>2018</b> , 318, 150-156	18
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576	N-doped porous carbon sheets derived from ZIF-8: Preparation and their electrochemical capacitive properties. <b>2018</b> , 810, 86-94	23
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565	Methanesulfonic acid-assisted synthesis of N/S co-doped hierarchically porous carbon for high performance supercapacitors. <b>2018</b> , 387, 81-90	108
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556	Sugar blowing-assisted reduction and interconnection of graphene oxide into three-dimensional porous graphene. <b>2018</b> , 730, 386-391	21
555	Recent advances of graphene-based materials for high-performance and new-concept supercapacitors. <b>2018</b> , 27, 25-42	95
554	Facile synthesis of N and S co-doped graphene sheets as anode materials for high-performance lithium-ion batteries. <b>2018</b> , 731, 235-242	33
553	MOF-derived N-doped carbon bubbles on carbon tube arrays for flexible high-rate supercapacitors. <b>2018</b> , 10, 75-84	118
552	Bread-making synthesis of hierarchically Co@C nanoarchitecture in heteroatom doped porous carbons for oxidative degradation of emerging contaminants. <b>2018</b> , 225, 76-83	141

551	A metal-free and non-precious multifunctional 3D carbon foam for high-energy density supercapacitors and enhanced power generation in microbial fuel cells. <b>2018</b> , 60, 431-440	23
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545	A Molecular Pillar Approach To Grow Vertical Covalent Organic Framework Nanosheets on Graphene: Hybrid Materials for Energy Storage. <b>2018</b> , 130, 1046-1050	29
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537	Conductive Microporous Covalent Triazine-Based Framework for High-Performance Electrochemical Capacitive Energy Storage. <b>2018</b> , 57, 7992-7996	133
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535	Novel hydroxylated boron nitride functionalized p-phenylenediamine-grafted graphene: an excellent filler for enhancing the barrier properties of polyurethane. <b>2018</b> , 6, 21501-21515	29
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533	Facile dual doping strategy via carbonization of covalent organic frameworks to prepare hierarchically porous carbon spheres for membrane capacitive deionization. <b>2018</b> , 54, 14009-14012	51
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523	Paper-Derived Flexible 3D Interconnected Carbon Microfiber Networks with Controllable Pore Sizes for Supercapacitors. <b>2018</b> , 10, 37046-37056	25
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517	Two-dimensional materials for miniaturized energy storage devices: from individual devices to smart integrated systems. <b>2018</b> , 47, 7426-7451	270
516	Efficient and scalable synthesis of highly aligned and compact two-dimensional nanosheet films with record performances. <b>2018</b> , 9, 3484	88

515	In Situ Doping Boron Atoms into Porous Carbon Nanoparticles with Increased Oxygen Graft Enhances both Affinity and Durability toward Electrolyte for Greatly Improved Supercapacitive Performance. <b>2018</b> , 28, 1804190		101
514	Facile synthesis of functionalized graphene hydrogel for high performance supercapacitor with high volumetric capacitance and ultralong cycling stability. <b>2018</b> , 455, 683-695		51
513	Direct Laser Writing of Graphene Made from Chemical Vapor Deposition for Flexible, Integratable Micro-Supercapacitors with Ultrahigh Power Output. <i>Advanced Materials</i> , <b>2018</b> , 30, e1801384	24	137
512	Band gap-Tunable Porous Borocarbonitride Nanosheets for High Energy-Density Supercapacitors. <b>2018</b> , 10, 19588-19597		52
511	Effect of side chain edge functionalization in pristine and defected graphene-DFT study. <b>2018</b> , 1135, 34-47		6
510	Hierarchically porous N-doped carbon derived from supramolecular assembled polypyrrole as a high performance supercapacitor electrode material. <b>2018</b> , 8, 18714-18722		12
509	Free-standing, layered graphene monoliths for long-life supercapacitor. <b>2018</b> , 350, 386-394		48
508	Boron and nitrogen co-doped graphene aerogels: Facile preparation, tunable doping contents and bifunctional oxygen electrocatalysis. <b>2018</b> , 137, 458-466		59
507	Conjugated polymer-based carbonaceous films as binder-free carbon electrodes in supercapacitors. <b>2018</b> , 8, 19512-19523		3
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505	Nitrogen-enriched carbon spheres coupled with graphitic carbon nitride nanosheets for high performance supercapacitors. <b>2018</b> , 47, 9724-9732		15
504	Nitrogen and oxygen co-doped graphene quantum dots with high capacitance performance for micro-supercapacitors. <b>2018</b> , 139, 67-75		72
503	B/N co-doped carbon derived from the sustainable chitin for C H bond oxidation. <b>2018</b> , 457, 439-448		16
502	High performance advanced asymmetric supercapacitor based on ultrathin and mesoporous MnCo <sub>2</sub> O <sub>4</sub> .5-NiCo <sub>2</sub> O <sub>4</sub> hybrid and iron oxide decorated reduced graphene oxide electrode materials. <b>2018</b> , 283, 438-447		35
501	Nitrogen-doped bamboo-like carbon nanotubes as anode material for high performance potassium ion batteries. <b>2018</b> , 6, 15162-15169		113
500	Potential of Graphene for Miniature Sensors and Conducting Devices for Biomedical Applications. <b>2018</b> ,		
499	2.3 Boron. <b>2018</b> , 72-87		
498	Graphene a promising electrode material for supercapacitorsA review. <b>2018</b> , 42, 4284-4300		79

497	Cross-linked graphene/carbon nanotube networks with polydopamine glue for flexible supercapacitors. <b>2018</b> , 10, 73-80	31
496	Highly Bendable Ionic Soft Actuator Based on Nitrogen-Enriched 3D Hetero-Nanostructure Electrode. <b>2018</b> , 28, 1802464	32
495	2.2 Carbonaceous Materials. <b>2018</b> , 40-71	1
494	Flexible solid-state supercapacitors based on carbon aerogel and some electrolyte polymer gels. <b>2018</b> , 124, 1	9
493	Surface-crumpled graphene hydrogels with macro- and microporous structures for ultrahigh-volumetric energy storage. <b>2018</b> , 399, 115-124	26
492	Microporosity-Controlled Synthesis of Heteroatom Codoped Carbon Nanocages by Wrap-Bake-Sublime Approach for Flexible All-Solid-State-Supercapacitors. <b>2018</b> , 28, 1803786	63
491	Facile synthesis of a graphene/nickel-cobalt hydroxide ternary hydrogel for high-performance supercapacitors. <b>2018</b> , 531, 593-601	9
490	S-enriched porous polymer derived N-doped porous carbons for electrochemical energy storage and conversion. <b>2018</b> , 12, 346-357	5
489	A high-rate and ultrastable anode enabled by boron-doped nanoporous carbon spheres for high-power and long life lithium ion capacitors. <b>2018</b> , 9, 428-439	16
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487	Autocatalysis Synthesis of Poly(benzoxazine-co-resol)-Based Polymer and Carbon Spheres. <b>2018</b> , 51, 5494-5500	21
486	Magnesium/chloride co-doping of lithium vanadium phosphate cathodes for enhanced stable lifetime in lithium-ion batteries. <b>2018</b> , 42, 13667-13673	5
485	Microwave-Assisted Synthesis of a Polypyrrole/Graphene Composite Using a Pyrrole-Induced Graphene Oxide Hydrogel for the Selective Determination of Dihydroxybenzenes. <b>2018</b> , 3, 7713-7717	2
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483	Three-dimensional graphene-based polymer nanocomposites: preparation, properties and applications. <b>2018</b> , 10, 14788-14811	128
482	Superelastic active graphene aerogels dried in natural environment for sensitive supercapacitor-type stress sensor. <b>2018</b> , 283, 1390-1400	15
481	Functionalized graphene nanosheets decorated on carbon nanotubes networks for high performance supercapacitors. <b>2018</b> , 398, 113-119	100
480	Stretchable all-solid-state supercapacitors based on highly conductive polypyrrole-coated graphene foam. <b>2018</b> , 349, 111-118	60

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478	Advanced Hierarchical Vesicular Carbon Co-Doped with S, P, N for High-Rate Sodium Storage. <b>2018</b> , 5, 1800241	177
477	High-Performance Supercapacitors of N-Doped Graphene Aerogel and Its Nanocomposites with Manganese Oxide and Polyaniline. <b>2018</b> , 165, A1430-A1439	17
476	Synthesis of 3D N-doped graphene/carbon nanotube hybrids with encapsulated Ni NPs and their catalytic application in the hydrogenation of nitroarenes. <b>2018</b> , 8, 4858-4863	15
475	One-pot synthesis of graphene quantum dots and simultaneous nanostructured self-assembly a novel microwave-assisted method: impact on triazine removal and efficiency monitoring.. <b>2018</b> , 8, 29939-29946 <sup>28</sup>	28
474	Hierarchical 3D All-Carbon Composite Structure Modified with N-Doped Graphene Quantum Dots for High-Performance Flexible Supercapacitors. <b>2018</b> , 14, e1801498	74
473	Isostatic pressure-assisted nanocasting preparation of zeolite templated carbon for high-performance and ultrahigh rate capability supercapacitors. <b>2018</b> , 6, 18938-18947	10
472	Designing Boron Nitride Islands in Carbon Materials for Efficient Electrochemical Synthesis of Hydrogen Peroxide. <b>2018</b> , 140, 7851-7859	184
471	2.21 Supercapacitors. <b>2018</b> , 663-695	4
470	Potential Applications and Perspectives. <b>2018</b> , 233-249	
469	Pore Structure-Dependent Mass Transport in Flow-through Electrodes for Water Remediation. <b>2018</b> , 52, 7477-7485	18
468	High-Performance Biomass-Based Flexible Solid-State Supercapacitor Constructed of Pressure-Sensitive Lignin-Based and Cellulose Hydrogels. <b>2018</b> , 10, 22190-22200	84
467	Facile synthesis of chitosan-based carbon with rich porous structure for supercapacitor with enhanced electrochemical performance. <b>2018</b> , 823, 563-572	35
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464	Solid-state supercapacitor application for pressure sensing. <b>2019</b> , 474, 91-96	6
463	Three-Dimensional Graphene-Based Macroscopic Assemblies as Super-Absorbents for Oils and Organic Solvents. <b>2019</b> , 43-68	3
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458	An Ecofriendly Gel Polymer Electrolyte Based on Natural Lignocellulose with Ultrahigh Electrolyte Uptake and Excellent Ionic Conductivity for Alkaline Supercapacitors. <b>2019</b> , 2, 6031-6042	15
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453	Effective boron doping in three-dimensional nitrogen-containing carbon foam with mesoporous structure for enhanced all-solid-state supercapacitor performance. <b>2019</b> , 493, 1205-1214	12
452	A First-Principles Study of Boron-Doped BC <sub>2</sub> N Sheet as Potential Anode Material for Li/Na-Ion Batteries. <b>2019</b> , 6, 3797-3805	4
451	Study on boron and nitrogen co-doped graphene xerogel for high-performance electrosorption application. <b>2019</b> , 23, 2377-2390	14
450	Biowaste-Derived Porous Carbon with Tuned Microstructure for High-Energy Quasi-Solid-State Supercapacitors. <b>2019</b> , 7, 13127-13135	32
449	Dissolution-assistant all-in-one synthesis of N and S dual-doped porous carbon for high-performance supercapacitors. <b>2019</b> , 30, 2211-2217	16
448	Transfer-Free Synthesis of Lateral Graphene Hexagonal Boron Nitride Heterostructures from Chemically Converted Epitaxial Graphene. <b>2019</b> , 6, 1900419	7
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446	Promotion of the performance of nitrogen-doped graphene by secondary heteroatoms doping in energy transformation and storage. <b>2019</b> , 25, 3499-3522	2
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444	Enhanced electrocatalytic performance triggered by atomically bridged boron nitride between palladium nanoparticles and carbon fibers in gas-diffusion electrodes. <b>2019</b> , 257, 117917	33

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441	Hofmeister Effect-Aided Assembly of Enhanced Hydrogel Supercapacitor with Excellent Interfacial Contact and Reliability. <b>2019</b> , 3, 1900558	24
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438	Synthesis of Doped Porous 3D Graphene Structures by Chemical Vapor Deposition and Its Applications. <b>2019</b> , 29, 1904457	35
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426	Highly anti-sintering and anti-coking ordered mesoporous silica carbide supported nickel catalyst for high temperature CO methanation. <b>2019</b> , 257, 116006	14

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423	In situ doping and synthesis of two-dimensional nanomaterials using mechano-chemistry. <b>2019</b> , 4, 642-646	6
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421	In situ tunable pillaring of compact and high-density graphite fluoride with pseudocapacitive diamines for supercapacitors with combined predominance in gravimetric and volumetric performances. <b>2019</b> , 7, 3353-3365	22
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419	Synthesis and applications of three-dimensional graphene network structures. <b>2019</b> , 5, 100027	47
418	Review of supercapacitors: Materials and devices. <b>2019</b> , 21, 801-825	587
417	Optimal structuring of nitrogen-doped hybrid-dimensional nanocarbons for high-performance flexible solid-state supercapacitors. <b>2019</b> , 7, 7501-7515	11
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414	Combining SWNT and Graphene in Polymer Nanofibers: A Route to Unique Carbon Precursors for Electrochemical Capacitor Electrodes. <b>2019</b> , 35, 3077-3086	11
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412	Wettability of graphene: from influencing factors and reversible conversions to potential applications. <b>2019</b> , 4, 339-364	68
411	Recent developments in electrode materials for potassium-ion batteries. <b>2019</b> , 7, 4334-4352	155
410	Reconfigurable solid-state electrolytes for high performance flexible supercapacitor. <b>2019</b> , 432, 16-23	10
409	Cu-Doped Porous Carbon Derived from Heavy Metal-Contaminated Sewage Sludge for High-Performance Supercapacitor Electrode Materials. <b>2019</b> , 9,	9
408	Synergistic effect of metal-organic framework-derived boron and nitrogen heteroatom-doped three-dimensional porous carbons for precious-metal-free catalytic reduction of nitroarenes. <b>2019</b> , 257, 117888	59

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401	Bottom-Up Synthesis of Graphene Monolayers with Tunable Crystallinity and Porosity. <b>2019</b> , 13, 7310-7322	18
400	Hierarchical B-doped carbon nanotube with enhanced electrochemical lithium storage. <b>2019</b> , 284, 276-282	12
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395	Flexible Graphene/Carbon Nanotube Electrochemical Double-Layer Capacitors with Ultrahigh Areal Performance. <b>2019</b> , 84, 882-892	20
394	High energy density supercapacitor based on N/B co-doped graphene nanoarchitectures and ionic liquid electrolyte. <b>2019</b> , 25, 4351-4360	7
393	Fabrication of high energy density symmetric supercapacitor based on cobalt-nickel bimetallic tungstate nanoparticles decorated phosphorus-sulphur co-doped graphene nanosheets with extended voltage. <b>2019</b> , 371, 679-692	38
392	Synthesis and electrochemical properties of benzoxazine-based heteroatom-doped carbon materials. <b>2019</b> , 34, 1219-1228	5
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390	Metal-free N, S co-doped graphene for efficient and durable nitrogen reduction reaction. <b>2019</b> , 54, 9088	61

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388	Tannic Acid-Assisted Fabrication of N/B-Codoped Hierarchical Carbon Nanofibers from Electrospun Zeolitic Imidazolate Frameworks as Free-Standing Electrodes for High-Performance Supercapacitors. <b>2019</b> , 48, 3050-3058	12
387	Polytetrafluoroethylene-assisted N/F co-doped hierarchically porous carbon as a high performance electrode for supercapacitors. <b>2019</b> , 545, 25-34	22
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385	Doped Graphene for Electrochemical Energy Storage Systems. <b>2019</b> , 511-612	1
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382	A Facile Method for Batch Preparation of Electrochemically Reduced Graphene Oxide. <b>2019</b> , 9,	14
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375	Hierarchically Porous Carbons Derived from Metal-Organic Framework/Chitosan Composites for High-Performance Supercapacitors. <b>2019</b> , 14, 3583-3589	16
374	N-doped graphene framework supported nickel cobalt oxide as supercapacitor electrode with enhanced performance. <b>2019</b> , 484, 135-143	31
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372	Progress in Nonmetal-Doped Graphene Electrocatalysts for the Oxygen Reduction Reaction. <b>2019</b> , 12, 2133-2146	45

371	Smart construction of 3D N-doped graphene honeycombs with (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> as a multifunctional template for Li-ion battery anode: A choice that serves three purposes	2019, 21, 1472-1483	48
370	A confinement strategy to prepare N-doped reduced graphene oxide foams with desired monolithic structures for supercapacitors.	2019, 11, 4362-4368	17
369	In-built fabrication of MOF assimilated B/N co-doped 3D porous carbon nanofiber network as a binder-free electrode for supercapacitors.	2019, 301, 209-219	67
368	Two-dimensional transition metal dichalcogenides in supercapacitors and secondary batteries.	2019, 19, 408-423	109
367	Sustainable biowaste strategy to fabricate dual-doped carbon frameworks with remarkable performance for flexible solid-state supercapacitors.	2019, 418, 112-121	46
366	Tunable Electronic Properties of Nitrogen and Sulfur Doped Graphene: Density Functional Theory Approach.	2019, 9,	24
365	3D Graphene-based macro-mesoporous frameworks as enzymatic electrodes.	2019, 130, 1-5	7
364	Reduced graphene oxide hydrogels prepared in the presence of phenol for high-performance electrochemical capacitors.	2019, 34, 403-416	9
363	Energy storage: The future enabled by nanomaterials.	2019, 366,	564
362	A Nitrogen-Doped Manganese Oxide Nanoparticles/Porous Carbon Nanosheets Hybrid Material: A High-Performance Anode for Lithium Ion Batteries.	2019, 84, 1805-1815	2
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358	Amphiphilic cellulose nanofiber-interwoven graphene aerogel monolith for dyes and silicon oil removal.	2019, 171, 190-198	28
357	Large scale fabrication of porous boron nitride microrods with tunable pore size for superior copper (II) ion adsorption.	2019, 45, 6684-6692	15
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355	Tuning capacitance of graphene films via a robust routine of adjusting their hierarchical structures.	2019, 298, 254-264	10
354	Enhanced capacitance of boron-doped graphene aerogels for aqueous symmetric supercapacitors.	2019, 475, 285-293	47

353	Hierarchical 3D electrodes for electrochemical energy storage. <b>2019</b> , 4, 45-60	360
352	Borocarbonitrides, B <sub>x</sub> C <sub>y</sub> N <sub>z</sub> , 2D Nanocomposites with Novel Properties. <b>2019</b> , 92, 441-468	130
351	A novel Lindqvist intercalation compound: Synthesis, crystal structure and hydrogen evolution reaction performance. <b>2019</b> , 99, 64-69	5
350	Heteroatom-Doped Carbon Materials for Hydrazine Oxidation. <i>Advanced Materials</i> , <b>2019</b> , 31, e1804394	24 47
349	A review of three-dimensional graphene-based materials: Synthesis and applications to energy conversion/storage and environment. <b>2019</b> , 143, 610-640	124
348	High sensitivity ammonia detection using metal nanoparticles decorated on graphene macroporous frameworks/polyaniline hybrid. <b>2019</b> , 197, 457-464	27
347	Highly Efficient Adsorption of Oils and Pollutants by Porous Ultrathin Oxygen-Modified BCN Nanosheets. <b>2019</b> , 7, 3234-3242	12
346	Chemical Vapor Deposition of Carbon Nanocoils Three-Dimensionally in Carbon Fiber Cloth for All-Carbon Supercapacitors. <b>2019</b> , 4, 195-202	9
345	N-doped carbons with hierarchically micro- and mesoporous structure derived from sawdust for high performance supercapacitors. <b>2019</b> , 279, 323-333	37
344	Purified nitrogen-doped reduced graphene oxide hydrogels for high-performance supercapacitors. <b>2019</b> , 834, 206-215	16
343	All-Solid-State Fiber Supercapacitors with Ultrahigh Volumetric Energy Density and Outstanding Flexibility. <b>2019</b> , 9, 1802753	140
342	Sn-based submicron-particles encapsulated in porous reduced graphene oxide network: Advanced anodes for high-rate and long life potassium-ion batteries. <b>2019</b> , 15, 58-66	51
341	Surface modulated hierarchical graphene film via sulfur and phosphorus dual-doping for high performance flexible supercapacitors. <b>2019</b> , 30, 1121-1125	29
340	Flexible and multi-form solid-state supercapacitors based on polyaniline/graphene oxide/CNT composite films and fibers. <b>2019</b> , 92, 198-207	29
339	Potassium gluconate-derived N/S Co-doped carbon nanosheets as superior electrode materials for supercapacitors and sodium-ion batteries. <b>2019</b> , 414, 308-316	65
338	Hemispherical nitrogen-doped carbon spheres integrated with polyindole as high performance electrode material for supercapacitor applications. <b>2019</b> , 142, 650-661	56
337	Enhanced electrochemical performance of C-NiO/NiCo <sub>2</sub> O <sub>4</sub> //AC asymmetric supercapacitor based on material design and device exploration. <b>2019</b> , 296, 335-344	18
336	High efficiency supercapacitor derived from biomass based carbon dots and reduced graphene oxide composite. <b>2019</b> , 832, 87-96	75

335	Reduced graphene oxide/polymer dots-based flexible symmetric supercapacitors delivering an output potential of 1.7 V with electrochemical charge injection. <b>2019</b> , 293, 399-407	13
334	A novel, efficient electrochemical sensor for the detection of isoniazid based on the B/N doped mesoporous carbon modified electrode. <b>2019</b> , 283, 613-620	25
333	Facile in Situ Synthesis of Multiple-Heteroatom-Doped Carbons Derived from Polyimide Precursors for Flexible All-Solid-State Supercapacitors. <b>2019</b> , 11, 1996-2005	23
332	Facile synthesis of B/N co-doped 2D porous carbon nanosheets derived from ammonium humate for supercapacitor electrodes. <b>2019</b> , 298, 1-13	44
331	A Biomass-Derived Carbon-Based Electrocatalyst for Efficient N Fixation to NH under Ambient Conditions. <b>2019</b> , 25, 1914-1917	51
330	Synthesis of B doped graphene/polyaniline hybrids for high-performance supercapacitor application. <b>2019</b> , 30, 2316-2326	13
329	Hierarchically Structured Multidimensional Carbon Composite Anchored to a Polymer Mat for a Superflexible Supercapacitor. <b>2019</b> , 2, 389-397	5
328	Fiber-shaped asymmetric supercapacitor exploiting rGO/Fe <sub>2</sub> O <sub>3</sub> aerogel and electrodeposited MnOx nanosheets on carbon fibers. <b>2019</b> , 144, 91-100	35
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326	In situ palladium/nitrogen-doped ordered mesoporous carbon hybrids as highly active and durable electrocatalysts for oxygen reduction reaction. <b>2019</b> , 26, 371-379	8
325	Highly porous N-doped carbons production from biomass for high-performance supercapacitors without chemical nitrogen-containing dopants. <b>2020</b> , 42, 1797-1807	10
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322	Nitrogen, sulfur and phosphorus tri-doped holey graphene oxide as a novel electrode material for application in supercapacitor. <b>2020</b> , 815, 152328	21
321	High-voltage aqueous asymmetric pseudocapacitors based on methyl blue-doped polyaniline hydrogels and the derived N/S-codoped carbon aerogels. <b>2020</b> , 383, 123153	20
320	Polymers for supercapacitors: Boosting the development of the flexible and wearable energy storage. <b>2020</b> , 139, 100520	80
319	All-solid-state supercapacitor composed of reduced graphene oxide (rGO)/activated carbon (AC) composite and polymer electrolyte. <b>2020</b> , 30, 107-113	6
318	N-doped hard carbon nanotubes derived from conjugated microporous polymer for electrocatalytic oxygen reduction reaction. <b>2020</b> , 146, 2270-2280	30

317	2.2V high performance symmetrical fiber-shaped aqueous supercapacitors enabled by Water-in-salt gel electrolyte and N-Doped graphene fiber. <b>2020</b> , 24, 495-503	43
316	Facile fabrication of binder-free reduced graphene oxide/MnO <sub>2</sub> /Ni foam hybrid electrode for high-performance supercapacitors. <b>2020</b> , 812, 152124	36
315	Nitrogen and sulfur co-doped porous carbon fibers film for flexible symmetric all-solid-state supercapacitors. <b>2020</b> , 158, 456-464	39
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313	Graphene oxide in aqueous and nonaqueous media: Dispersion behaviour and solution chemistry. <b>2020</b> , 158, 568-579	28
312	Supercapacitive and ORR performances of nitrogen-doped hollow carbon spheres pyrolyzed from polystyrene@polypyrrole-polyaniline. <b>2020</b> , 818, 152890	20
311	Multifunctional microporous activated carbon nanotubes anchored on graphite fibers for high-strength and high-rate flexible all-solid-state supercapacitors. <b>2020</b> , 502, 144423	12
310	Copolymer derived micro/meso-porous carbon nanofibers with vacancy-type defects for high-performance supercapacitors. <b>2020</b> , 8, 2463-2471	60
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303	Novel approach towards the synthesis of highly efficient flame retardant electrode and oil/organic solvent absorber. <b>2020</b> , 246, 125785	13
302	Facile one-pot synthesis of water-dispersible phosphate functionalized reduced graphene oxide toward high-performance energy storage devices. <b>2020</b> , 56, 1373-1376	26
301	A polypyrrole-adorned, self-supported, pseudocapacitive zinc vanadium oxide nanoflower and nitrogen-doped reduced graphene oxide-based asymmetric supercapacitor device for power density applications. <b>2020</b> , 44, 1063-1075	14
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296	A Mechanochemical-Assisted Synthesis of Boron, Nitrogen Co-Doped Porous Carbons as Metal-Free Catalysts. <b>2020</b> , 26, 2041-2050	8
295	Heteroatom doped 3D graphene aerogel supported catalysts for formic acid and methanol oxidation. <b>2020</b> , 45, 650-666	22
294	Bimetallic MnCo alloy nanoparticles decorated boron-doped carbon nanotubes as an active and durable electrode for supercapacitor. <b>2020</b> , 309, 110535	7
293	Constructing Nitrogen, Selenium Co-Doped Graphene Aerogel Electrode Materials for Synergistically Enhanced Capacitive Performance. <b>2020</b> , 7, 3311-3318	18
292	Design of compressible and elastic N-doped porous carbon nanofiber aerogels as binder-free supercapacitor electrodes. <b>2020</b> , 8, 17257-17265	31
291	High-efficiency utilization of carbon materials for supercapacitors. <b>2020</b> , 1, 244-262	11
290	Three-dimensional nitrogen doped hierarchically porous carbon aerogels with ultrahigh specific surface area for high-performance supercapacitors and flexible micro-supercapacitors. <b>2020</b> , 168, 701-709	43
289	Preparation of boron nitride nanofibers/PVA composite foam for environmental remediation. <b>2020</b> , 604, 125287	4
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283	Three-dimensionally macroporous nitrogen and boron co-doped graphene aerogels derived from polyaspartamide for supercapacitor electrodes. <b>2020</b> , 25, 101495	5
282	Enhanced sodium storage kinetics of nitrogen rich cellulose-derived hierarchical porous carbon via subsequent boron doping. <b>2020</b> , 531, 147302	13

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279	Bowl-shaped NiCo <sub>2</sub> O <sub>4</sub> nanosheet clusters as electrode materials for high-performance asymmetric supercapacitors. <b>2020</b> , 63, 2456-2464	7
278	Direct Assembly of 3D-BCN Microspheres as a Microsupercapacitor Electrode for Wearable Energy Storage. <b>2020</b> , 12, 47416-47424	8
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276	Research Progress of Graphene-Based Materials on Flexible Supercapacitors. <b>2020</b> , 10, 892	15
275	Annealing-Assisted Dip-Coating Synthesis of Ultrafine Fe <sub>3</sub> O <sub>4</sub> Nanoparticles/Graphene on Carbon Cloth for Flexible Quasi-Solid-State Symmetric Supercapacitors. <b>2020</b> , 3, 9379-9389	18
274	Three-Dimensional Architectures in Electrochemical Capacitor Applications Insights, Opinions, and Perspectives. <b>2020</b> , 8,	1
273	In-plane NiCo(OH)/CoO hybrid nanosheets for flexible all-solid-state thin-film supercapacitors with high electrochemical performance. <b>2020</b> , 12, 24251-24258	6
272	Self-powered supercapacitor-mode tactile sensor based on polygonal litchi-like nanospheres decorated three-dimensional reduced graphene oxide aerogel for wearable electronics device. <b>2020</b> , 479, 229096	4
271	Facile and Efficient Patterning Method for Silver Nanowires and Its Application to Stretchable Electroluminescent Displays. <b>2020</b> , 12, 24074-24085	34
270	Heteroatom doped graphene engineering for energy storage and conversion. <b>2020</b> , 39, 47-65	214
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255	Graphene Based Aerogels: Fundamentals and Applications as Supercapacitors. <b>2020</b> , 30, 101549	23
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253	Multidimensional graphene structures and beyond: Unique properties, syntheses and applications. <b>2020</b> , 113, 100665	37
252	Design and synthesis of nitrogen-doped hexagonal NiCoO nanoplates derived from Ni-Co-MOF for high-performance electrochemical energy storage. <b>2020</b> , 31, 2280-2286	38
251	A flexible polyelectrolyte-based gel polymer electrolyte for high-performance all-solid-state supercapacitor application.. <b>2020</b> , 10, 9299-9308	14
250	Forming indium-carbon (InC) bonds at the edges of graphitic nanoplatelets. <b>2020</b> , 6, 100030	4
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246	Synergizing Layered Carbon and Gel Electrolyte for Efficient Energy Storage. <b>2020</b> , 8, 4207-4215	12

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243	Vacancies and edges: Enhancing supercapacitive performance metrics of electrode materials. <b>2020</b> , 31, 101614	9
242	Ab initio study of P-doped borocarbonitride nanosheet as anode material for Li-ion and Na-ion batteries. <b>2020</b> , 25, 101409	3
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240	3D Assembly of Graphene Nanomaterials for Advanced Electronics. <b>2020</b> , 2, 1900151	7
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236	3D Graphene-Based H <sub>2</sub> -Production Photocatalyst and Electrocatalyst. <b>2020</b> , 10, 1903802	109
235	Investigation of wet-milled graphene nanosheets with sulfur doping for lithium-ion battery. <b>2020</b> , 26, 3267-3274	6
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233	Low-Thermal-Budget Doping of 2D Materials in Ambient Air Exemplified by Synthesis of Boron-Doped Reduced Graphene Oxide. <b>2020</b> , 7, 1903318	3
232	Rich heteroatom doping magnetic carbon electrode for flow-capacitive deionization with enhanced salt removal ability. <b>2020</b> , 482, 114374	6
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228	Two-dimensional materials for energy conversion and storage. <b>2020</b> , 111, 100637	73

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226	Free energy barriers for TMEA+, TMA+, and BF <sub>4</sub> <sup>-</sup> ion diffusion through nanoporous carbon electrodes. <b>2020</b> , 161, 550-561	6
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214	Enhanced electrocatalytic performance of nitrogen- and phosphorous-functionalized carbon felt electrode for VO <sub>2</sub> <sup>+</sup> /VO <sub>2</sub> <sup>+</sup> redox reaction. <b>2021</b> , 45, 1806-1817	0
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210	Recent progress in energy storage and conversion of flexible symmetric transducers. <b>2021</b> , 9, 753-781	5

209	Porosity and composition of nitrogen-doped carbon materials templated by the thermolysis products of calcium tartrate and their performance in electrochemical capacitors. <b>2021</b> , 858, 158259	6
208	Lithium-ion capacitor with improved energy density via perfect matching silicon@3D graphene aerogel anode and BCNNTs cathode. <b>2021</b> , 9, 1134-1142	8
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205	Nanoarchitected Design of Vertical-Standing Arrays for Supercapacitors: Progress, Challenges, and Perspectives. <b>2021</b> , 31, 2006030	55
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185	Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene for electrode materials of supercapacitors. <b>2021</b> , 9, 11501-11529		41
184	Notoginseng-derived B/N co-doped porous carbon with high N-doped content and good electrochemical performance. <b>2021</b> , 27, 1439-1449		2
183	Formation of Highly Doped Nanostripes in 2D Transition Metal Dichalcogenides via a Dislocation Climb Mechanism. <i>Advanced Materials</i> , <b>2021</b> , 33, e2007819	24	3
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181	Synergistic effect of porous structure and heteroatoms in carbon materials to boost high-performance supercapacitor. <b>2021</b> , 45, 10963-10973		4
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179	Superelastic TiCT MXene-Based Hybrid Aerogels for Compression-Resilient Devices. <b>2021</b> , 15, 5000-5010		42
178	Construction and Theoretical Calculation of an Ultra-High-Performance LiVPOF/C Cathode by B-Doped Pyrolytic Carbon from Poly(vinylidene Fluoride). <b>2021</b> , 13, 15190-15204		3
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171	A facile soft-template synthetic approach of surface integrated nitrogen-rich carbon nanospheres for light-weight supercapacitors. <b>2021</b> , 1229, 129788	2
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165	N, B co-doped and Crumpled Graphene Oxide Pseudocapacitive Electrode for High Energy Supercapacitor. <b>2021</b> , 23, 101025	4
164	Interface engineering of NiCo <sub>2</sub> O <sub>4</sub> /BCN nanotube for performance enhancement of lithium-oxygen battery. <b>2021</b> , 411, 128403	11
163	Green and controllable synthesis of multi-heteroatoms co-doped graphene fiber as flexible and biocompatible microelectrode for in situ electrochemical detection of biological samples. <b>2021</b> , 335, 129683	6
162	Asymmetric Flexible Supercapacitors: An Overview of Principle, Materials and Mechanism. <b>2021</b> , 315-348	0
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158	High Electrosorption Capacity of Uranium (VI) by Carboxylic Acid Functionalized N, P Co-Doped Carbon Materials.	1
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155	Heteroatom-doped graphene-based materials for sustainable energy applications: A review. <b>2021</b> , 143, 110849	52
154	Sequencing dual dopants for an electromagnetic tunable graphene. <b>2021</b> , 413, 127421	5
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