

Heteroatom-doped graphene materials: syntheses, prop

Chemical Society Reviews

43, 7067-7098

DOI: 10.1039/c4cs00141a

Citation Report

#	ARTICLE	IF	CITATIONS
1	Three-Dimensional Porous Architectures of Carbon Nanotubes and Graphene Sheets for Energy Applications. <i>Frontiers in Energy Research</i> , 2014, 2, .	2.3	14
2	Electrode Nanostructures in Lithium-Based Batteries. <i>Advanced Science</i> , 2014, 1, 1400012.	11.2	148
3	Work Functions of Pristine and Heteroatom-Doped Graphenes under Different External Electric Fields: An <i>ab Initio</i> DFT Study. <i>Journal of Physical Chemistry C</i> , 2014, 118, 28274-28282.	3.1	114
4	Low-temperature and one-pot synthesis of sulfurized graphene nanosheets via in situ doping and their superior electrocatalytic activity for oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2014, 2, 20714-20722.	10.3	54
5	Chemical Reactivity and Band-Gap Opening of Graphene Doped with Gallium, Germanium, Arsenic, and Selenium Atoms. <i>ChemPhysChem</i> , 2014, 15, 3994-4000.	2.1	67
6	Chemical Preparation of Graphene Materials Results in Extensive Unintentional Doping with Heteroatoms and Metals. <i>Chemistry - A European Journal</i> , 2014, 20, 15760-15767.	3.3	39
7	Heteroatom-doped graphene materials: syntheses, properties and applications. <i>Chemical Society Reviews</i> , 2014, 43, 7067-7098.	38.1	1,547
8	Revealing the tunable photoluminescence properties of graphene quantum dots. <i>Journal of Materials Chemistry C</i> , 2014, 2, 6954-6960.	5.5	530
9	Engineered 2D nanomaterials-protein interfaces for efficient sensors. <i>Journal of Materials Research</i> , 2015, 30, 3565-3574.	2.6	10
10	Laser-induced modulation of the Landau level structure in single-layer graphene. <i>Physical Review B</i> , 2015, 92, .	3.2	15
11	Silicon and silicon-nitrogen impurities in graphene: Structure, energetics, and effects on electronic transport. <i>Physical Review B</i> , 2015, 92, .	3.2	23
12	Doping graphene with a monovacancy: bonding and magnetism. <i>Journal of Physics: Conference Series</i> , 2015, 661, 012028.	0.4	5
13	Multisource Synergistic Electrocatalytic Oxidation Effect of Strongly Coupled PdM (M=Co, Ni, Sn, Cu) on the Oxidation of 5-Hydroxytryptophan. <i>Journal of Electroanalytical Chemistry</i> , 2015, 624, 1-8.	3.3	48
14	Selective Nitrogen Functionalization of Graphene by Bucherer-Type Reaction. <i>Chemistry - A European Journal</i> , 2015, 21, 8090-8095.	3.3	19
15	3D WS ₂ Nanolayers@Heteroatom-Doped Graphene Films as Hydrogen Evolution Catalyst Electrodes. <i>Advanced Materials</i> , 2015, 27, 4234-4241.	21.0	389
16	Multifunctional Nitrogen-Doped Carbon Nanodots for Photoluminescence, Sensor, and Visible-Light-Induced H ₂ Production. <i>ChemPhysChem</i> , 2015, 16, 3058-3063.	2.1	28
17	Supramolecular Polymerization Promoted In Situ Fabrication of Nitrogen-Doped Porous Graphene Sheets as Anode Materials for Li-Ion Batteries. <i>Advanced Energy Materials</i> , 2015, 5, 1500559.	19.5	133
18	Advanced Graphene-Based Binder-Free Electrodes for High-Performance Energy Storage. <i>Advanced Materials</i> , 2015, 27, 5264-5279.	21.0	153

#	ARTICLE	IF	CITATIONS
19	In Situ Fabrication of PtCo Alloy Embedded in Nitrogen-Doped Graphene Nanopores as Synergistic Catalyst for Oxygen Reduction Reaction. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500365.	3.7	21
20	Magnetic Properties of a Bottom-Up Synthesis Analogous Graphene with N-Doped Zigzag Edges. <i>Advanced Electronic Materials</i> , 2015, 1, 1500084.	5.1	6
21	High-Surface-Area Nitrogen-Doped Reduced Graphene Oxide for Electric Double-Layer Capacitors. <i>ChemSusChem</i> , 2015, 8, 1875-1884.	6.8	83
22	Co-Doping of Activated Graphene for Synergistically Enhanced Electrocatalytic Oxygen Reduction Reaction. <i>ChemSusChem</i> , 2015, 8, 4040-4048.	6.8	22
24	Nitrogen-Doped Carbon Nanotube and Graphene Materials for Oxygen Reduction Reactions. <i>Catalysts</i> , 2015, 5, 1574-1602.	3.5	183
25	Two-Dimensional Materials for Sensing: Graphene and Beyond. <i>Electronics (Switzerland)</i> , 2015, 4, 651-687.	3.1	310
26	Triggering the electrocatalytic hydrogen evolution activity of the inert two-dimensional MoS ₂ surface via single-atom metal doping. <i>Energy and Environmental Science</i> , 2015, 8, 1594-1601.	30.8	1,109
27	Sunlight induced unique morphological transformation in graphene based nanohybrids: appearance of a new tetra-nanohybrid and tuning of functional property of these nanohybrids. <i>Soft Matter</i> , 2015, 11, 4226-4234.	2.7	17
28	Simple one-step synthesis of fluorine-doped carbon nanoparticles as potential alternative metal-free electrocatalysts for oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2015, 3, 9972-9981.	10.3	160
29	Structural design of graphene for use in electrochemical energy storage devices. <i>Chemical Society Reviews</i> , 2015, 44, 6230-6257.	38.1	389
30	Single pot electrochemical synthesis of functionalized and phosphorus doped graphene nanosheets for supercapacitor applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 6319-6328.	2.2	39
31	Graphene Quantum Dots Supported by Graphene Nanoribbons with Ultrahigh Electrocatalytic Performance for Oxygen Reduction. <i>Journal of the American Chemical Society</i> , 2015, 137, 7588-7591.	13.7	262
32	Pancake " " Bonding Goes Double: Unexpected 4e/All-Sites Bonding in Boron- and Nitrogen-Doped Phenalenyls. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 2318-2325.	4.6	32
33	Pyrolyzed polyaniline and graphene nano sheet composite with improved rate and cycle performance for lithium storage. <i>Carbon</i> , 2015, 92, 354-361.	10.3	21
34	Graphene-supported metal/metal oxide nanohybrids: synthesis and applications in heterogeneous catalysis. <i>Catalysis Science and Technology</i> , 2015, 5, 3903-3916.	4.1	125
35	Nitrogen and Fluorine co-doped carbon catalyst with high oxygen reduction performance, prepared by pyrolyzing a mixture of melamine and PTFE. <i>Electrochimica Acta</i> , 2015, 182, 963-970.	5.2	34
36	Doped graphene supercapacitors. <i>Nanotechnology</i> , 2015, 26, 492001.	2.6	86
37	First-Principles Calculation of Quantum Capacitance of Codoped Graphenes as Supercapacitor Electrodes. <i>Journal of Physical Chemistry C</i> , 2015, 119, 26290-26295.	3.1	118

#	ARTICLE	IF	CITATIONS
38	Polyaniline Coated Boron Doped Biomass Derived Porous Carbon Composites for Supercapacitor Electrode Materials. Industrial & Engineering Chemistry Research, 2015, 54, 12570-12579.	3.7	73
39	Graphene quantum dots functionalized gold nanoparticles for sensitive electrochemical detection of heavy metal ions. Electrochimica Acta, 2015, 172, 7-11.	5.2	200
40	Microwave-assisted solvothermal synthesis of sulfur-doped graphene for electrochemical sensing. Journal of Electroanalytical Chemistry, 2015, 739, 172-177.	3.8	35
41	Microfiber devices based on carbon materials. Materials Today, 2015, 18, 215-226.	14.2	57
42	One-step and rapid synthesis of nitrogen and sulfur co-doped graphene for hydrogen peroxide and glucose sensing. Journal of Electroanalytical Chemistry, 2015, 742, 8-14.	3.8	53
43	Rational design of three-dimensional nitrogen-doped carbon nanoleaf networks for high-performance oxygen reduction. Journal of Materials Chemistry A, 2015, 3, 5617-5627.	10.3	32
44	Facile hydrothermal preparation of recyclable S-doped graphene sponge for Cu ²⁺ adsorption. Journal of Hazardous Materials, 2015, 286, 449-456.	12.4	100
45	Boron-Doped, Nitrogen-Doped, and Codoped Graphene on Cu(111): A DFT + vdW Study. Journal of Physical Chemistry C, 2015, 119, 6056-6064.	3.1	63
46	White-light photoconductivity of N-doped graphene oxide thin films. Journal of Materials Science: Materials in Electronics, 2015, 26, 1853-1857.	2.2	1
47	Two-dimensional dichalcogenides for light-harvesting applications. Nano Today, 2015, 10, 128-137.	11.9	208
48	Two-dimensional covalent carbon nitride nanosheets: synthesis, functionalization, and applications. Energy and Environmental Science, 2015, 8, 3092-3108.	30.8	893
49	A single-step room-temperature electrochemical synthesis of nitrogen-doped graphene nanoribbons from carbon nanotubes. Journal of Materials Chemistry A, 2015, 3, 18222-18228.	10.3	18
50	Experimental and theoretical investigations of nitro-group doped porous carbon as a high performance lithium-ion battery anode. Journal of Materials Chemistry A, 2015, 3, 18657-18666.	10.3	54
51	Heteroatom-Doped Graphene-Based Materials for Energy-Relevant Electrocatalytic Processes. ACS Catalysis, 2015, 5, 5207-5234.	11.2	800
52	The inelastic electron tunneling spectroscopy of curved finite-sized graphene nanoribbon based molecular devices. RSC Advances, 2015, 5, 53313-53319.	3.6	0
53	New advances in nanographene chemistry. Chemical Society Reviews, 2015, 44, 6616-6643.	38.1	1,212
54	The quantum transport of pyrene and its silicon-doped variant: a DFT-NEGF approach. Journal of Computational Electronics, 2015, 14, 619-626.	2.5	4
55	CdS/Graphene Nanocomposite Photocatalysts. Advanced Energy Materials, 2015, 5, 1500010.	19.5	694

#	ARTICLE	IF	CITATIONS
56	Carbocatalysis: reduced graphene oxide-catalyzed Boc protection of hydroxyls and graphite oxide-catalyzed deprotection. <i>Tetrahedron Letters</i> , 2015, 56, 2744-2748.	1.4	11
57	Sulfur-doped graphene-supported Ag nanoparticles for nonenzymatic hydrogen peroxide detection. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	1.9	20
58	The dopant type and amount governs the electrochemical performance of graphene platforms for the antioxidant activity quantification. <i>Nanoscale</i> , 2015, 7, 9040-9045.	5.6	19
59	Photochemical doping of graphene oxide thin films with nitrogen for electrical conductivity improvement. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 1770-1775.	2.2	5
60	TiO ₂ -doped Fe ₃ O ₄ nanoparticles as high-performance Fenton-like catalyst for dye decoloration. <i>Science China Technological Sciences</i> , 2015, 58, 858-863.	4.0	20
61	Nitrogen and phosphorus co-doped graphene quantum dots: synthesis from adenosine triphosphate, optical properties, and cellular imaging. <i>Nanoscale</i> , 2015, 7, 8159-8165.	5.6	174
62	Synthesis of nitrogen-doped monolayer graphene with high transparent and n-type electrical properties. <i>Journal of Materials Chemistry C</i> , 2015, 3, 6172-6177.	5.5	24
63	Synthesis of wood derived nitrogen-doped porous carbonâ€“polyaniline composites for supercapacitor electrode materials. <i>RSC Advances</i> , 2015, 5, 30943-30949.	3.6	73
64	Monothiolation and Reduction of Graphene Oxide <i>via</i> One-Pot Synthesis: Hybrid Catalyst for Oxygen Reduction. <i>ACS Nano</i> , 2015, 9, 4193-4199.	14.6	92
65	High-performance dye-sensitized solar cells using edge-halogenated graphene nanoplatelets as counter electrodes. <i>Nano Energy</i> , 2015, 13, 336-345.	16.0	85
66	Thiourea sole doping reagent approach for controllable N, S co-doping of pre-synthesized large-sized carbon nanospheres as electrocatalyst for oxygen reduction reaction. <i>Carbon</i> , 2015, 92, 339-347.	10.3	59
67	Ternary doping of phosphorus, nitrogen, and sulfur into porous carbon for enhancing electrocatalytic oxygen reduction. <i>Carbon</i> , 2015, 92, 327-338.	10.3	170
68	Graphene-based catalysis for biomass conversion. <i>Catalysis Science and Technology</i> , 2015, 5, 3845-3858.	4.1	100
69	Grapheneâ€“bacteria composite for oxygen reduction and lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 12873-12879.	10.3	30
70	Highly Stable and Tunable n-Type Graphene Field-Effect Transistors with Poly(vinyl alcohol) Films. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 9702-9708.	8.0	25
71	Benzeneâ€“Fused Azacorannulene Bearing an Internal Nitrogen Atom. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7256-7260.	13.8	174
72	Dichlorocarbeneâ€“Functionalized Fluorographene: Synthesis and Reaction Mechanism. <i>Small</i> , 2015, 11, 3790-3796.	10.0	32
73	Multiple roles of graphene in heterogeneous catalysis. <i>Chemical Society Reviews</i> , 2015, 44, 3023-3035.	38.1	313

#	ARTICLE	IF	CITATIONS
74	Synthesis of graphene oxide dots for excitation-wavelength independent photoluminescence at high quantum yields. Journal of Materials Chemistry C, 2015, 3, 4553-4562.	5.5	39
75	Nitrogen doped carbon nanotubes with encapsulated ferric carbide as excellent electrocatalyst for oxygen reduction reaction in acid and alkaline media. Journal of Power Sources, 2015, 286, 495-503.	7.8	121
76	Thermite-driven melamine condensation to C _x N _y H _z graphitic ternary polymers: towards an instant, large-scale synthesis of g-C ₃ N ₄ . Journal of Materials Chemistry A, 2015, 3, 9621-9631.	10.3	58
77	Heteroatom substituted and decorated graphene: preparation and applications. Physical Chemistry Chemical Physics, 2015, 17, 32077-32098.	2.8	64
78	Covalent functionalization of N-doped graphene by N-alkylation. Chemical Communications, 2015, 51, 16916-16919.	4.1	24
79	Role of quaternary N in N-doped grapheneâ€“Fe ₂ O ₃ nanocomposites as efficient photocatalysts for CO ₂ reduction and acetaldehyde degradation. RSC Advances, 2015, 5, 85061-85064.	3.6	27
80	Ultrathin Two-Dimensional Nanomaterials. ACS Nano, 2015, 9, 9451-9469.	14.6	1,726
81	Enhanced catalytic hydrodechlorination of 2,4-dichlorophenol over Pd catalysts supported on nitrogen-doped graphene. RSC Advances, 2015, 5, 91363-91371.	3.6	24
82	Pyrolyzed egg yolk as an efficient bifunctional electrocatalyst for oxygen reduction and evolution reactions. RSC Advances, 2015, 5, 97508-97511.	3.6	11
83	Sulfur doped graphene/polystyrene nanocomposites for electromagnetic interference shielding. Composite Structures, 2015, 133, 1267-1275.	5.8	121
84	An introduction to the chemistry of graphene. Physical Chemistry Chemical Physics, 2015, 17, 28484-28504.	2.8	127
85	Photochemical doping of graphene oxide thin film with nitrogen for photoconductivity enhancement. Carbon, 2015, 94, 1037-1043.	10.3	10
86	Bâ€“N@Graphene: Highly Sensitive and Selective Gas Sensor. Journal of Physical Chemistry C, 2015, 119, 24827-24836.	3.1	112
87	Effective Suppression of Dendritic Lithium Growth Using an Ultrathin Coating of Nitrogen and Sulfur Codoped Graphene Nanosheets on Polymer Separator for Lithium Metal Batteries. ACS Applied Materials & Interfaces, 2015, 7, 23700-23707.	8.0	210
88	Graphene-Based Bulk-Heterojunction Solar Cells: A Review. Journal of Nanoscience and Nanotechnology, 2015, 15, 6237-6278.	0.9	71
89	Microwave-Assisted Synthesis of Boron and Nitrogen co-doped Reduced Graphene Oxide for the Protection of Electromagnetic Radiation in Ku-Band. ACS Applied Materials & Interfaces, 2015, 7, 19831-19842.	8.0	145
90	One-pot synthesis of highly greenish-yellow fluorescent nitrogen-doped graphene quantum dots for pyrophosphate sensing via competitive coordination with Eu ³⁺ ions. Nanoscale, 2015, 7, 15427-15433.	5.6	87
91	A first-principles study of light non-metallic atom substituted blue phosphorene. Applied Surface Science, 2015, 356, 110-114.	6.1	95

#	ARTICLE	IF	CITATIONS
92	Heteroatom doped graphene in photocatalysis: A review. <i>Applied Surface Science</i> , 2015, 358, 2-14.	6.1	298
93	Effect of titanium nitride coating on physical properties of three-dimensional graphene. <i>Applied Surface Science</i> , 2015, 356, 399-407.	6.1	6
94	Functional Biomass Carbons with Hierarchical Porous Structure for Supercapacitor Electrode Materials. <i>Electrochimica Acta</i> , 2015, 180, 241-251.	5.2	244
95	Metal-free boron-doped graphene for selective electroreduction of carbon dioxide to formic acid/formate. <i>Chemical Communications</i> , 2015, 51, 16061-16064.	4.1	239
96	Nickel–Cobalt Oxide Decorated Three-Dimensional Graphene as an Enzyme Mimic for Glucose and Calcium Detection. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 21089-21094.	8.0	111
97	Controlled synthesis of three-dimensional interconnected graphene-like nanosheets from graphite microspheres as high-performance anodes for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 21298-21307.	10.3	23
98	Lewis acid-base surface interaction of some boron compounds with N-doped graphene; first principles study. <i>Current Applied Physics</i> , 2015, 15, 1271-1277.	2.4	85
99	Ion implantation of low energy Si into graphene: insight from computational studies. <i>RSC Advances</i> , 2015, 5, 99920-99926.	3.6	12
100	Crystalline poly(triazine imide) based g-CN as an efficient electrocatalyst for counter electrodes of dye-sensitized solar cells using a triiodide/iodide redox electrolyte. <i>Journal of Materials Chemistry A</i> , 2015, 3, 24232-24236.	10.3	31
101	Synergistic effects of dopants on the spin density of catalytic active centres of N-doped fluorinated graphene for oxygen reduction reaction. <i>Applied Materials Today</i> , 2015, 1, 74-79.	4.3	66
102	Graphene in Supercapacitor Applications. <i>Current Opinion in Colloid and Interface Science</i> , 2015, 20, 416-428.	7.4	154
103	Glowing Graphene Quantum Dots and Carbon Dots: Properties, Syntheses, and Biological Applications. <i>Small</i> , 2015, 11, 1620-1636.	10.0	1,770
104	Layer-by-layer printing of laminated graphene-based interdigitated microelectrodes for flexible planar micro-supercapacitors. <i>Electrochemistry Communications</i> , 2015, 51, 33-36.	4.7	169
105	Nitrogen and sulfur dual-doped graphene for glucose biosensor application. <i>Journal of Electroanalytical Chemistry</i> , 2015, 738, 100-107.	3.8	28
106	Potential of metal-free “graphene alloy” as electrocatalysts for oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2015, 3, 1795-1810.	10.3	133
107	Extended “Doped Polycyclic Aromatic Hydrocarbons. <i>Angewandte Chemie</i> , 2016, 128, 6051-6055.	2.0	21
108	Nitrogen–Doped Graphene for Photocatalytic Hydrogen Generation. <i>Chemistry - an Asian Journal</i> , 2016, 11, 1125-1137.	3.3	63
109	Synthesis of Nitrogen–Containing Rubicene and Tetrabenzopentacene Derivatives. <i>Angewandte Chemie</i> , 2016, 128, 3413-3416.	2.0	21

#	ARTICLE	IF	CITATIONS
110	A new approach to polycyclic azaarenes: visible-light photolysis of vinyl azides in the synthesis of diazabenzopyrene and diazaperylene. <i>Journal of Materials Chemistry C</i> , 2016, 4, 7269-7276.	5.5	22
111	Preparation of coralline-like nitrogen-doped porous carbon by urea-assisted pyrolysis of low-cost and environmental friendly polyaniline. <i>Environmental Progress and Sustainable Energy</i> , 2016, 35, 840-846.	2.3	11
112	Platinfreie Nanomaterialien für die Sauerstoffreduktion. <i>Angewandte Chemie</i> , 2016, 128, 2698-2726.	2.0	87
113	Earth-Abundant Nanomaterials for Oxygen Reduction. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 2650-2676.	13.8	926
114	Highly active Fe, N co-doped graphene nanoribbon/carbon nanotube composite catalyst for oxygen reduction reaction. <i>Electrochimica Acta</i> , 2016, 222, 1922-1930.	5.2	27
115	Doped Graphene for DNA Analysis: the Electrochemical Signal is Strongly Influenced by the Kind of Dopant and the Nucleobase Structure. <i>Scientific Reports</i> , 2016, 6, 33046.	3.3	25
116	Potassium doping: Tuning the optical properties of graphene quantum dots. <i>AIP Advances</i> , 2016, 6, .	1.3	57
117	Effects of domain size on x-ray absorption spectra of boron nitride doped graphenes. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	9
118	Boron, nitrogen, and phosphorous ternary doped graphene aerogel with hierarchically porous structures as highly efficient electrocatalysts for oxygen reduction reaction. <i>New Journal of Chemistry</i> , 2016, 40, 6022-6029.	2.8	62
119	Microbe-engaged synthesis of carbon dot-decorated reduced graphene oxide as high-performance oxygen reduction catalysts. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7222-7229.	10.3	56
120	In situ fabrication of three-dimensional nitrogen and boron co-doped porous carbon nanofibers for high performance lithium-ion batteries. <i>Journal of Power Sources</i> , 2016, 324, 294-301.	7.8	50
121	Enhanced power generation using nano cobalt oxide anchored nitrogen-decorated reduced graphene oxide as a high-performance air-cathode electrocatalyst in biofuel cells. <i>RSC Advances</i> , 2016, 6, 52556-52563.	3.6	32
122	Tailoring the Electrode Interface with Enhanced Electron Transfer for High-Rate Lithium-Ion Battery Anodes. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 6643-6648.	3.7	3
123	Hybrid two-dimensional materials in rechargeable battery applications and their microscopic mechanisms. <i>Chemical Society Reviews</i> , 2016, 45, 4042-4073.	38.1	194
124	Nanowires assembled from MnCo ₂ O ₄ @C nanoparticles for water splitting and all-solid-state supercapacitor. <i>Nano Research</i> , 2016, 9, 1300-1309.	10.4	87
125	Graphene and its electrochemistry – an update. <i>Chemical Society Reviews</i> , 2016, 45, 2458-2493.	38.1	366
126	2D quasi-ordered nitrogen-enriched porous carbon nanohybrids for high energy density supercapacitors. <i>Nanoscale</i> , 2016, 8, 10166-10176.	5.6	34
127	Electrochemical activation of carbon cloth in aqueous inorganic salt solution for superior capacitive performance. <i>Nanoscale</i> , 2016, 8, 10406-10414.	5.6	82

#	ARTICLE	IF	CITATIONS
128	Selective hydrogenation of aromatic carboxylic acids over basic N-doped mesoporous carbon supported palladium catalysts. <i>Applied Catalysis A: General</i> , 2016, 520, 73-81.	4.3	60
129	Rose rock-shaped nano Cu ₂ O anchored graphene for high-performance supercapacitors via solvothermal route. <i>Journal of Power Sources</i> , 2016, 318, 66-75.	7.8	51
130	Adsorption of amino acids on boron and/or nitrogen doped functionalized graphene: A Density Functional Study. <i>Computational and Theoretical Chemistry</i> , 2016, 1086, 45-51.	2.5	36
131	Time-efficient syntheses of nitrogen and sulfur co-doped graphene quantum dots with tunable luminescence and their sensing applications. <i>RSC Advances</i> , 2016, 6, 36554-36560.	3.6	29
132	Simultaneous optimization of surface chemistry and pore morphology of 3D graphene-sulfur cathode via multi-ion modulation. <i>Journal of Power Sources</i> , 2016, 321, 193-200.	7.8	46
133	Designing graphene as a new frustrated Lewis pair catalyst for hydrogen activation by co-doping. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 11120-11124.	2.8	46
134	Understanding the interactions between lithium polysulfides and N-doped graphene using density functional theory calculations. <i>Nano Energy</i> , 2016, 25, 203-210.	16.0	347
135	Covalently functionalized graphene with organic semiconductors for energy and optoelectronic applications. <i>Materials Research Express</i> , 2016, 3, 044001.	1.6	10
136	Ultrafast synthesis of gold/proline-functionalized graphene quantum dots and its use for ultrasensitive electrochemical detection of p-acetamidophenol. <i>RSC Advances</i> , 2016, 6, 42751-42755.	3.6	35
137	Sulfur/Nitrogen Dual-doped Porous Graphene Aerogels Enhancing Anode Performance of Lithium Ion Batteries. <i>Electrochimica Acta</i> , 2016, 205, 188-197.	5.2	133
138	Graphene decorated with bimodal size of carbon polyhedrons for enhanced lithium storage. <i>Carbon</i> , 2016, 106, 9-19.	10.3	29
139	Theoretical Study of Heteroatom Doping in Tuning the Catalytic Activity of Graphene for Triiodide Reduction. <i>ACS Catalysis</i> , 2016, 6, 6804-6813.	11.2	35
140	Integrative Approach toward Uncovering the Origin of Photoluminescence in Dual Heteroatom-Doped Carbon Nanodots. <i>Chemistry of Materials</i> , 2016, 28, 6840-6847.	6.7	128
141	Graphitic Carbon Nitride Materials: Sensing, Imaging and Therapy. <i>Small</i> , 2016, 12, 5376-5393.	10.0	195
142	An Electron-Deficient Azacoronene Obtained by Radial Extension. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 14658-14662.	13.8	67
143	Molecular level distribution of black phosphorus quantum dots on nitrogen-doped graphene nanosheets for superior lithium storage. <i>Nano Energy</i> , 2016, 30, 347-354.	16.0	107
144	Highly Efficient Electrocatalysts for Oxygen Reduction Reaction Based on 1D Ternary Doped Porous Carbons Derived from Carbon Nanotube Directed Conjugated Microporous Polymers. <i>Advanced Functional Materials</i> , 2016, 26, 8255-8265.	14.9	65
145	Impact of size on energy storage performance of graphene based supercapacitor electrode. <i>Electrochimica Acta</i> , 2016, 219, 463-469.	5.2	32

#	ARTICLE	IF	CITATIONS
146	Mono and dual doped monolayer graphene with aluminum, silicon, phosphorus and sulfur. Computational and Theoretical Chemistry, 2016, 1097, 40-47.	2.5	32
147	Boron doping of graphene“pushing the limit. Nanoscale, 2016, 8, 15521-15528.	5.6	31
148	Synthesis and characterization of boron doped graphene nanosheets for supercapacitor applications. Synthetic Metals, 2016, 220, 524-532.	3.9	165
149	Catalytic reduction of 4-nitrophenol over Ni-Pd nanodimers supported on nitrogen-doped reduced graphene oxide. Journal of Hazardous Materials, 2016, 320, 96-104.	12.4	121
150	Direct Synthesis of Few-Layer F-Doped Graphene Foam and Its Lithium/Potassium Storage Properties. ACS Applied Materials & Interfaces, 2016, 8, 20682-20690.	8.0	263
151	Effects of halogen doping on nanocarbon catalysts synthesized by a solution plasma process for the oxygen reduction reaction. Physical Chemistry Chemical Physics, 2016, 18, 21843-21851.	2.8	38
152	N-P-O co-doped high performance 3D graphene prepared through red phosphorous-assisted “cutting-thin” technique: A universal synthesis and multifunctional applications. Nano Energy, 2016, 28, 346-355.	16.0	217
153	Nitrogen-Doped Carbon Quantum Dot Stabilized Magnetic Iron Oxide Nanoprobe for Fluorescence, Magnetic Resonance, and Computed Tomography Triple-Modal In Vivo Bioimaging. Advanced Functional Materials, 2016, 26, 8694-8706.	14.9	113
154	Co3O4 nanorods“graphene composites as catalysts for rechargeable zinc-air battery. Journal of Solid State Electrochemistry, 2016, 20, 3331-3336.	2.5	22
155	Graphene-Based Metal-Free Catalysts for Catalytic Reactions in the Liquid Phase. ACS Catalysis, 2016, 6, 6948-6958.	11.2	104
156	DFT-based study on the mechanisms of the oxygen reduction reaction on Co(acetylacetonate) ₂ supported by N-doped graphene nanoribbon. RSC Advances, 2016, 6, 79662-79667.	3.6	5
157	A new route of magnetic biochar based polyaniline composites for supercapacitor electrode materials. Journal of Analytical and Applied Pyrolysis, 2016, 121, 240-257.	5.5	61
158	Fabrication of functionalized 3D graphene with controllable micro/meso-pores as a superior electrocatalyst for enhanced oxygen reduction in both acidic and alkaline solutions. RSC Advances, 2016, 6, 79459-79469.	3.6	2
159	Nanostructured transparent conductive films: Fabrication, characterization and applications. Materials Science and Engineering Reports, 2016, 109, 1-101.	31.8	104
160	The effect of the dopant nature on the reactivity, interlayer bonding and electronic properties of dual doped bilayer graphene. Physical Chemistry Chemical Physics, 2016, 18, 24693-24703.	2.8	20
161	Three-dimensional Nitrogen-doped graphene as binder-free electrode materials for supercapacitors with high volumetric capacitance and the synergistic effect between nitrogen configuration and supercapacitive performance. Electrochimica Acta, 2016, 218, 32-40.	5.2	54
162	Enrichment of Pyrrolic Nitrogen by Hole Defects in Nitrogen and Sulfur Co-Doped Graphene Hydrogel for Flexible Supercapacitors. ChemSusChem, 2016, 9, 2261-2268.	6.8	93
163	Nitrogen-doped reduced graphene oxide and aniline based redox additive electrolyte for a flexible supercapacitor. RSC Advances, 2016, 6, 67898-67909.	3.6	34

#	ARTICLE	IF	CITATIONS
164	An Efficient Electrocatalyst Derived from Bamboo Leaves for the Oxygen Reduction Reaction. ChemElectroChem, 2016, 3, 1466-1470.	3.4	14
165	Computational electrochemistry of doped graphene as electrocatalytic material in fuel cells. International Journal of Quantum Chemistry, 2016, 116, 1623-1640.	2.0	28
166	Corannulene derivatives for organic electronics: From molecular engineering to applications. Chinese Chemical Letters, 2016, 27, 1175-1183.	9.0	49
167	An Electron-Deficient Azacoronene Obtained by Radial Extension. Angewandte Chemie, 2016, 128, 14878-14882.	2.0	20
168	Simultaneous Graphite Exfoliation and N Doping in Supercritical Ammonia. ACS Applied Materials & Interfaces, 2016, 8, 30964-30971.	8.0	41
169	Elemental superdoping of graphene and carbon nanotubes. Nature Communications, 2016, 7, 10921.	12.8	238
170	Doped and undoped graphene platforms: the influence of structural properties on the detection of polyphenols. Scientific Reports, 2016, 6, 20673.	3.3	12
171	Identification of catalytic sites for oxygen reduction and oxygen evolution in N-doped graphene materials: Development of highly efficient metal-free bifunctional electrocatalyst. Science Advances, 2016, 2, e1501122.	10.3	1,078
172	High-performance supercapacitor of macroscopic graphene hydrogels by partial reduction and nitrogen doping of graphene oxide. Electrochimica Acta, 2016, 221, 167-176.	5.2	42
173	The Effect of Boron and Nitrogen Doping in Electronic, Magnetic, and Optical Properties of Graphyne. Journal of Physical Chemistry C, 2016, 120, 26793-26806.	3.1	94
174	Scanning electrochemical microscopy for the analysis and patterning of graphene materials: A review. Synthetic Metals, 2016, 222, 145-161.	3.9	13
175	Expanding the environmental applications of metal (Al, Ti, Mn, Fe) doped graphene: adsorption and removal of 1,4-dioxane. Physical Chemistry Chemical Physics, 2016, 18, 32281-32292.	2.8	23
176	Enhanced electrocatalytic hydrogen evolution in graphene via defect engineering and heteroatoms co-doping. Electrochimica Acta, 2016, 219, 781-789.	5.2	42
177	Graphene: Tunable superdoping. Nature Energy, 2016, 1, .	39.5	35
178	One-pot hydrothermal synthesis of Nitrogen-doped graphene as high-performance anode materials for lithium ion batteries. Scientific Reports, 2016, 6, 26146.	3.3	342
179	Tuning the bandgap of graphene quantum dots by gold nanoparticle-assisted O2 plasma etching. RSC Advances, 2016, 6, 97853-97860.	3.6	4
180	Revealing the underlying absorption and emission mechanism of nitrogen doped graphene quantum dots. Nanoscale, 2016, 8, 19376-19382.	5.6	74
181	Graphene-based materials for the electrochemical determination of hazardous ions. Analytica Chimica Acta, 2016, 946, 9-39.	5.4	52

#	ARTICLE	IF	CITATIONS
182	Comparative Study of the Catalytic Activities of Three Distinct Carbonaceous Materials through Photocatalytic Oxidation, CO Conversion, Dye Degradation, and Electrochemical Measurements. Scientific Reports, 2016, 6, 35500.	3.3	7
183	Graphene in Photocatalysis: A Review. Small, 2016, 12, 6640-6696.	10.0	836
184	Sulfur and Nitrogen Co-Doped Graphene Electrodes for High-Performance Ionic Artificial Muscles. Advanced Materials, 2016, 28, 1610-1615.	21.0	177
185	Selective Chlorination of Graphene through Laser-Induced In Situ Decomposition of AgCl Nanoparticles. ChemNanoMat, 2016, 2, 515-519.	2.8	3
186	Synthesis of Nitrogen-Containing Rubicene and Tetrabenzopentacene Derivatives. Angewandte Chemie - International Edition, 2016, 55, 3352-3355.	13.8	47
187	Theoretical Studies of Oxygen Reactivity of Free-Standing and Supported Boron-Doped Graphene. ChemSusChem, 2016, 9, 1061-1077.	6.8	12
188	Sensing of picric acid with a glassy carbon electrode modified with CuS nanoparticles deposited on nitrogen-doped reduced graphene oxide. Mikrochimica Acta, 2016, 183, 2421-2430.	5.0	35
189	Click and Patterned Functionalization of Graphene by Diels-Alder Reaction. Journal of the American Chemical Society, 2016, 138, 7448-7451.	13.7	81
190	Carbon Nanoparticles and Nanostructures. Carbon Nanostructures, 2016, , .	0.1	18
191	Carbon Based Dots and Their Luminescent Properties and Analytical Applications. Carbon Nanostructures, 2016, , 161-238.	0.1	9
192	Rapid and facile synthesis of graphene oxide quantum dots with good linear and nonlinear optical properties. Journal of Materials Science: Materials in Electronics, 2016, 27, 10926-10933.	2.2	14
193	Dual doped monolayer and bilayer graphene: The case of 4p and 2p elements. Chemical Physics Letters, 2016, 658, 152-157.	2.6	20
194	Bimetallic Fe 15 Pt 85 nanoparticles as an effective anodic electrocatalyst for non-enzymatic glucose/oxygen biofuel cell. Electrochimica Acta, 2016, 208, 325-333.	5.2	19
195	Boron and nitrogen co-doped porous carbon nanotubes webs as a high-performance anode material for lithium ion batteries. International Journal of Hydrogen Energy, 2016, 41, 14252-14260.	7.1	68
196	Monodisperse cobalt sulfides embedded within nitrogen-doped carbon nanoflakes: an efficient and stable electrocatalyst for the oxygen reduction reaction. Journal of Materials Chemistry A, 2016, 4, 11342-11350.	10.3	85
197	Extended O-Doped Polycyclic Aromatic Hydrocarbons. Angewandte Chemie - International Edition, 2016, 55, 5947-5951.	13.8	47
198	Synthesis and characterization of BiPO ₄ /g-C ₃ N ₄ nanocomposites with significantly enhanced visible-light photocatalytic activity for benzene degradation. RSC Advances, 2016, 6, 20664-20670.	3.6	51
199	Pyridine derivative/graphene nanoribbon composites as molecularly tunable heterogeneous electrocatalysts for the oxygen reduction reaction. Physical Chemistry Chemical Physics, 2016, 18, 5040-5047.	2.8	11

#	ARTICLE	IF	CITATIONS
200	Synthesis of silicon-doped reduced graphene oxide and its applications in dye-sensitive solar cells and supercapacitors. RSC Advances, 2016, 6, 15080-15086.	3.6	45
201	Graphene-Coupled Flower-Like Ni ₃ S ₂ for a Free-Standing 3D Aerogel with an Ultra-High Electrochemical Capacity. Electrochimica Acta, 2016, 191, 705-715.	5.2	80
202	Synthesis and functionalization of graphene and application in electrochemical biosensing. Nanotechnology Reviews, 2016, 5, .	5.8	26
203	Nitrogen-doped graphene nanosheets as metal-free catalysts for dehydrogenation reaction of ethanol. RSC Advances, 2016, 6, 13450-13455.	3.6	25
204	Supercapacitor performances of rich nitrogen-doped mesoporous graphene fabricated by a facile template-free copolyolysis process. Ionics, 2016, 22, 1177-1184.	2.4	13
205	P-Doped Porous Carbon as Metal Free Catalysts for Selective Aerobic Oxidation with an Unexpected Mechanism. ACS Nano, 2016, 10, 2305-2315.	14.6	276
206	Enhanced Adsorption of Hydroxyl- and Amino-Substituted Aromatic Chemicals to Nitrogen-Doped Multiwall Carbon Nanotubes: A Combined Batch and Theoretical Calculation Study. Environmental Science & Technology, 2016, 50, 899-905.	10.0	53
207	N-Doped Ordered Mesoporous Carbon Originated from a Green Biological Dye for Electrochemical Sensing and High-Pressure CO ₂ Storage. ACS Applied Materials & Interfaces, 2016, 8, 918-926.	8.0	30
208	Towards high-efficiency nanoelectrocatalysts for oxygen reduction through engineering advanced carbon nanomaterials. Chemical Society Reviews, 2016, 45, 1273-1307.	38.1	589
209	One-step electrochemical synthesis of nitrogen and sulfur co-doped, high-quality graphene oxide. Chemical Communications, 2016, 52, 5714-5717.	4.1	64
210	Recent advances in graphene-based hybrid nanostructures for electrochemical energy storage. Nanoscale Horizons, 2016, 1, 340-374.	8.0	92
211	The Synthesis, Properties, and Applications of Heteroatom-Doped Graphenes. Advanced Structured Materials, 2016, , 103-133.	0.5	3
212	Superior cycle stability of nitrogen-doped graphene nanosheets for Na-ion batteries. Materials Letters, 2016, 174, 221-225.	2.6	40
213	A 3D graphene-supported MoS ₂ nanosphere and nanosheet heterostructure as a highly efficient free-standing hydrogen evolution electrode. RSC Advances, 2016, 6, 31359-31362.	3.6	7
214	Nitrogen and sulphur co-doped crumbled graphene for the oxygen reduction reaction with improved activity and stability in acidic medium. Journal of Materials Chemistry A, 2016, 4, 6014-6020.	10.3	46
215	Quantum dots derived from two-dimensional materials and their applications for catalysis and energy. Chemical Society Reviews, 2016, 45, 2239-2262.	38.1	391
216	One-pot environmentally friendly amino acid mediated synthesis of N-doped graphene-silver nanocomposites with an enhanced multifunctional behavior. Dalton Transactions, 2016, 45, 5180-5195.	3.3	35
217	N-doped graphene as a nanostructure adsorbent for carbon monoxide: DFT calculations. Molecular Physics, 2016, 114, 1756-1762.	1.7	69

#	ARTICLE	IF	CITATIONS
218	Lewis Acid-Base Adducts for Improving the Selectivity and Sensitivity of Graphene Based Gas Sensors. ACS Sensors, 2016, 1, 451-459.	7.8	30
219	Recent advances in 2D materials for photocatalysis. Nanoscale, 2016, 8, 6904-6920.	5.6	680
220	Controllable Codoping of Nitrogen and Sulfur in Graphene for Highly Efficient Li-Oxygen Batteries and Direct Methanol Fuel Cells. Chemistry of Materials, 2016, 28, 1737-1745.	6.7	132
221	Ionic liquid-assisted synthesis of dual-doped graphene as efficient electrocatalysts for oxygen reduction. Carbon, 2016, 102, 58-65.	10.3	50
222	Functionalized graphene oxide in microbial engineering: An effective stimulator for bacterial growth. Carbon, 2016, 103, 172-180.	10.3	28
223	Electrode modification using nanocomposites of boron or nitrogen doped graphene oxide and cobalt (II) tetra aminophenoxy phthalocyanine nanoparticles. Electrochimica Acta, 2016, 196, 457-469.	5.2	29
224	Novel synthesis of N-doped graphene as an efficient electrocatalyst towards oxygen reduction. Nano Research, 2016, 9, 808-819.	10.4	81
225	Band Gap Opening in Dual-Doped Monolayer Graphene. Journal of Physical Chemistry C, 2016, 120, 7103-7112.	3.1	56
226	Spectroscopic Investigation of Plasma-Fluorinated Monolayer Graphene and Application for Gas Sensing. ACS Applied Materials & Interfaces, 2016, 8, 8652-8661.	8.0	77
227	Effect of annealing temperature on physical properties of nanostructured TiN/3DG composite. Materials and Design, 2016, 90, 524-531.	7.0	5
228	Self-Assembled N/S Codoped Flexible Graphene Paper for High Performance Energy Storage and Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2016, 8, 2078-2087.	8.0	113
229	Multi-channelled hierarchical porous carbon incorporated Co ₃ O ₄ nanopillar arrays as 3D binder-free electrode for high performance supercapacitors. Nano Energy, 2016, 20, 94-107.	16.0	122
230	One-pot construction of 3-D nitrogen-doped activated graphene-like nanosheets for high-performance supercapacitors. Electrochimica Acta, 2016, 190, 378-387.	5.2	56
231	Recent advances in carbon-based dots for electroanalysis. Analyst, The, 2016, 141, 2619-2628.	3.5	29
232	Review on recent advances in nitrogen-doped carbons: preparations and applications in supercapacitors. Journal of Materials Chemistry A, 2016, 4, 1144-1173.	10.3	879
233	Nitrogen-Doped Graphene Synthesized from a Single Liquid Precursor for a Field Effect Transistor. Journal of Electronic Materials, 2016, 45, 839-845.	2.2	12
234	Facile synthesis of highly conductive sulfur-doped reduced graphene oxide sheets. Physical Chemistry Chemical Physics, 2016, 18, 1125-1130.	2.8	103
235	High utilization efficiency of NiCo ₂ O ₄ supported on porous graphene as noble metal-free catalysts for oxygen reduction reaction. Journal of Alloys and Compounds, 2016, 655, 229-237.	5.5	25

#	ARTICLE	IF	CITATIONS
236	N-doped graphene coupled with Co nanoparticles as an efficient electrocatalyst for oxygen reduction in alkaline media. <i>Journal of Power Sources</i> , 2016, 302, 114-125.	7.8	135
237	Highly active electron-deficient Pd clusters on N-doped active carbon for aromatic ring hydrogenation. <i>Catalysis Science and Technology</i> , 2016, 6, 1913-1920.	4.1	108
238	Heterocyclic Nanographenes and Other Polycyclic Heteroaromatic Compounds: Synthetic Routes, Properties, and Applications. <i>Chemical Reviews</i> , 2017, 117, 3479-3716.	47.7	1,018
239	A Defect-Free Principle for Advanced Graphene Cathode of Aluminum-Ion Battery. <i>Advanced Materials</i> , 2017, 29, 1605958.	21.0	280
240	Enhanced adsorption of aromatic chemicals on boron and nitrogen co-doped single-walled carbon nanotubes. <i>Environmental Science: Nano</i> , 2017, 4, 558-564.	4.3	31
241	Transfer hydrogenation of bio-fuel with formic acid over biomass-derived N-doped carbon supported acid-resistant Pd catalyst. <i>Catalysis Science and Technology</i> , 2017, 7, 627-634.	4.1	71
242	Efficient Synthesis of Nitrogen- and Sulfur-co-Doped Ketjenblack with a Single-Source Precursor for Enhancing Oxygen Reduction Reaction Activity. <i>Chemistry - A European Journal</i> , 2017, 23, 3674-3682.	3.3	25
243	Materials Design and System Construction for Conventional and New-Concept Supercapacitors. <i>Advanced Science</i> , 2017, 4, 1600382.	11.2	365
244	Three dimensional cellular architecture of sulfur doped graphene: self-standing electrode for flexible supercapacitors, lithium ion and sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 5290-5302.	10.3	118
245	Silver Nanoparticles Modified Graphitic Carbon Nitride Nanosheets as a Significant Bifunctional Material for Practical Applications. <i>ChemistrySelect</i> , 2017, 2, 1398-1408.	1.5	19
246	Advances in Production and Applications of Carbon Nanotubes. <i>Topics in Current Chemistry</i> , 2017, 375, 18.	5.8	64
247	Impacts of interfacial charge transfer on nanoparticle electrocatalytic activity towards oxygen reduction. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 9336-9348.	2.8	49
248	Recent advances of supercapacitors based on two-dimensional materials. <i>Applied Materials Today</i> , 2017, 7, 1-12.	4.3	20
249	Hierarchical Structures Based on Two-Dimensional Nanomaterials for Rechargeable Lithium Batteries. <i>Advanced Energy Materials</i> , 2017, 7, 1601906.	19.5	216
250	Tailored performance of layered transition metal dichalcogenides via integration with low dimensional nanostructures. <i>RSC Advances</i> , 2017, 7, 11987-11997.	3.6	10
251	Phosphorus doped and defects engineered graphene for improved electrochemical sensing: synergistic effect of dopants and defects. <i>Electrochimica Acta</i> , 2017, 231, 557-564.	5.2	50
252	Cyanographene and Graphene Acid: Emerging Derivatives Enabling High-Yield and Selective Functionalization of Graphene. <i>ACS Nano</i> , 2017, 11, 2982-2991.	14.6	133
253	Investigation on the ability of heteroatom-doped graphene for biorecognition. <i>Nanoscale</i> , 2017, 9, 3530-3536.	5.6	8

#	ARTICLE	IF	CITATIONS
254	A simple route to prepare a Cu ₂ O@Cu ⁰ /GN nanohybrid for high-performance electrode materials. RSC Advances, 2017, 7, 12027-12032.	3.6	30
255	Amino Nitrogen Quantum Dots-Based Nanoprobe for Fluorescence Detection and Imaging of Cysteine in Biological Samples. Analytical Chemistry, 2017, 89, 4238-4245.	6.5	75
256	Superior Cathode Performance of Nitrogen-Doped Graphene Frameworks for Lithium Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 10643-10651.	8.0	98
257	Borazino-Doped Polyphenylenes. Journal of the American Chemical Society, 2017, 139, 5503-5519.	13.7	39
258	Synthesis of Three-Dimensional Nitrogen and Sulfur Dual-Doped Graphene Aerogels as an Efficient Metal-Free Electrocatalyst for the Oxygen Reduction Reaction. ChemElectroChem, 2017, 4, 1885-1890.	3.4	21
259	Magnetic properties of a doped graphene-like bilayer. Physica B: Condensed Matter, 2017, 513, 21-28.	2.7	10
260	The Application of Graphene in Biosensors. , 2017, , 299-329.		2
261	Facile preparation of nitrogen/sulfur co-doped and hierarchical porous graphene hydrogel for high-performance electrochemical capacitor. Journal of Power Sources, 2017, 345, 146-155.	7.8	109
262	Heavily aluminated graphene nanoplatelets as an efficient flame-retardant. Carbon, 2017, 116, 77-83.	10.3	43
263	Three-dimensional porous graphene-encapsulated CNT@SnO ₂ composite for high-performance lithium and sodium storage. Electrochimica Acta, 2017, 230, 212-221.	5.2	94
265	A DFT study on the central-ring doped HBC nanographenes. Journal of Molecular Graphics and Modelling, 2017, 73, 101-107.	2.4	33
266	Enhancing linearity in I-V characteristics by B/N doping in graphene for communication devices. Journal of Materials Science: Materials in Electronics, 2017, 28, 7668-7676.	2.2	19
267	Graphene-Based Phosphorus-Doped Carbon as Anode Material for High-Performance Sodium-Ion Batteries. Particle and Particle Systems Characterization, 2017, 34, 1600315.	2.3	25
268	Efficient Nitrogen Doping of Single-Layer Graphene Accompanied by Negligible Defect Generation for Integration into Hybrid Semiconductor Heterostructures. ACS Applied Materials & Interfaces, 2017, 9, 10003-10011.	8.0	39
269	Phosphorus-doped porous graphene nanosheet as metal-free electrocatalyst for triiodide reduction reaction in dye-sensitized solar cell. Applied Surface Science, 2017, 405, 308-315.	6.1	45
270	Liquid-phase exfoliation of black phosphorus and its applications. FlatChem, 2017, 2, 15-37.	5.6	129
271	Phosphorus and oxygen dual-doped graphene as superior anode material for room-temperature potassium-ion batteries. Journal of Materials Chemistry A, 2017, 5, 7854-7861.	10.3	233
272	Electrochemical reduction of CO ₂ on graphene supported transition metals towards single atom catalysts. Physical Chemistry Chemical Physics, 2017, 19, 11436-11446.	2.8	86

#	ARTICLE	IF	CITATIONS
273	POSS-Based Nitrogen-Doped Hierarchically Porous Carbon as Metal-Free Oxidation Catalyst. <i>ChemistrySelect</i> , 2017, 2, 3381-3387.	1.5	11
274	The inelastic electron tunneling spectroscopy of edge-modified graphene nanoribbon-based molecular devices. <i>Chinese Physics B</i> , 2017, 26, 023103.	1.4	0
275	One step hydrothermal synthesis of nitrogen-doped graphitic quantum dots as a fluorescent sensing strategy for highly sensitive detection of metacycline in mice plasma. <i>Sensors and Actuators B: Chemical</i> , 2017, 249, 256-264.	7.8	41
276	Controlled Synthesis of Nitrogen-Doped Graphene on Ruthenium from Azafullerene. <i>Nano Letters</i> , 2017, 17, 2887-2894.	9.1	25
277	Constructing a fluorescent probe for specific detection of catechol based on 4-carboxyphenylboronic acid-functionalized carbon dots. <i>Sensors and Actuators B: Chemical</i> , 2017, 250, 712-720.	7.8	67
278	Laser-Induced Graphene in Controlled Atmospheres: From Superhydrophilic to Superhydrophobic Surfaces. <i>Advanced Materials</i> , 2017, 29, 1700496.	21.0	227
279	Monte Carlo study of magnetization plateaus in a zigzag graphene nanoribbon structure. <i>Carbon</i> , 2017, 120, 313-325.	10.3	65
280	Mild-temperature hydrodeoxygenation of vanillin over porous nitrogen-doped carbon black supported nickel nanoparticles. <i>Green Chemistry</i> , 2017, 19, 3126-3134.	9.0	147
281	Carbon Thin Film Wrapped around a Three-Dimensional Nitrogen-Doped Carbon Scaffold for Superior Performance Supercapacitors. <i>Chemistry - A European Journal</i> , 2017, 23, 9641-9646.	3.3	13
282	Synthesis, characterization, and photocatalytic activity of N-doped carbonaceous material derived from cellulose in textile dye remediation. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 2586-2596.	6.7	18
283	Synthesis of N-doped graphene-functionalized $\text{Zn}_{1.231}\text{Ge}_{0.689}\text{N}_{1.218}\text{O}_{0.782}$ solid solution as a photocatalyst for CO_2 reduction and oxidation of benzyl alcohol under visible-light irradiation. <i>Journal of Materials Chemistry A</i> , 2017, 5, 10998-11008.	10.3	27
284	Triple-Doped Monolayer Graphene with Boron, Nitrogen, Aluminum, Silicon, Phosphorus, and Sulfur. <i>ChemPhysChem</i> , 2017, 18, 1864-1873.	2.1	49
285	Facile synthesis of mesoporous graphene platelets with in situ nitrogen and sulfur doping for lithium-sulfur batteries. <i>RSC Advances</i> , 2017, 7, 22567-22577.	3.6	20
286	B-N Codoped Graphene as a Novel Support for Pd Catalyst with Enhanced Catalysis for Ethanol Electrooxidation in Alkaline Medium. <i>Journal of the Electrochemical Society</i> , 2017, 164, F638-F644.	2.9	24
287	Tuning quantum electron and phonon transport in two-dimensional materials by strain engineering: a Green's function based study. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 1487-1495.	2.8	19
288	N-Doping of graphene oxide at low temperature for the oxygen reduction reaction. <i>Chemical Communications</i> , 2017, 53, 873-876.	4.1	121
289	Tailoring Colors by O Annulation of Polycyclic Aromatic Hydrocarbons. <i>Chemistry - A European Journal</i> , 2017, 23, 2363-2378.	3.3	55
290	Sandwich-structured nanocomposites of N-doped graphene and nearly monodisperse Fe_3O_4 nanoparticles as high-performance Li-ion battery anodes. <i>Nano Research</i> , 2017, 10, 2923-2933.	10.4	30

#	ARTICLE	IF	CITATIONS
291	Feature-rich electronic properties of aluminum-adsorbed graphenes. Carbon, 2017, 120, 209-218.	10.3	16
292	Nanostructured 3D zinc cobaltite/nitrogen-doped reduced graphene oxide composite electrode for supercapacitor applications. Journal of Industrial and Engineering Chemistry, 2017, 54, 205-217.	5.8	58
293	N-Doped graphene/PEDOT composite films as counter electrodes in DSSCs: Unveiling the mechanism of electrocatalytic activity enhancement. Applied Surface Science, 2017, 423, 443-450.	6.1	27
294	Superior supercapacitors based on nitrogen and sulfur co-doped hierarchical porous carbon: Excellent rate capability and cycle stability. Journal of Power Sources, 2017, 358, 112-120.	7.8	91
295	B π -H π interaction in borane-graphene complexes: coronene as a case study. New Journal of Chemistry, 2017, 41, 5040-5054.	2.8	14
296	Green synthesized N-doped graphitic carbon sheets coated carbon cloth as efficient metal free electrocatalyst for hydrogen evolution reaction. International Journal of Hydrogen Energy, 2017, 42, 14390-14399.	7.1	82
297	The synergistic effect of nitrogen doping and para-phenylenediamine functionalization on the physicochemical properties of reduced graphene oxide for electric double layer supercapacitors in organic electrolytes. Journal of Materials Chemistry A, 2017, 5, 12426-12434.	10.3	30
298	ZIF-8 derived nitrogen-doped porous carbon/carbon nanotube composite for high-performance supercapacitor. Carbon, 2017, 121, 330-336.	10.3	181
299	On the band gaps and effective masses of mono and dual doped monolayer graphene. Computational Materials Science, 2017, 137, 20-29.	3.0	9
300	Passive mode-locking at S-band by single-mode thulium-doped fluoride fiber using a thin film PtAg/N-G saturable absorber. Journal of Nanophotonics, 2017, 11, 026008.	1.0	6
301	Doping and reduction of graphene oxide using chitosan-derived volatile N-heterocyclic compounds for metal-free oxygen reduction reaction. Carbon, 2017, 120, 419-426.	10.3	46
302	Recent advances of supercapacitors based on two-dimensional materials. Applied Materials Today, 2017, 8, 104-115.	4.3	139
303	Convenient preparation of nitrogen-doped activated carbon from Macadamia nutshell and its application in supercapacitor. Journal of Materials Science: Materials in Electronics, 2017, 28, 13880-13887.	2.2	27
304	Oxidized and Si-doped graphene: emerging adsorbents for removal of dioxane. Physical Chemistry Chemical Physics, 2017, 19, 17587-17597.	2.8	18
305	One-Pot Purification and Iodination of Waste Kish Graphite into High-Quality Electrocatalyst. Particle and Particle Systems Characterization, 2017, 34, 1600426.	2.3	8
306	Carbon dots: materials, synthesis, properties and approaches to long-wavelength and multicolor emission. Journal of Materials Chemistry B, 2017, 5, 3794-3809.	5.8	264
307	Graphene Nanoribbon Based Thermoelectrics: Controllable Self-Doping and Long-Range Disorder. Advanced Science, 2017, 4, 1600467.	11.2	5
308	Functionalization of BaTiO ₃ nanoparticles with electron insulating and conducting organophosphazene-based hybrid materials. RSC Advances, 2017, 7, 19674-19683.	3.6	5

#	ARTICLE	IF	CITATIONS
309	Highly Crumpled Hybrids of Nitrogen/Sulfur Dual-Doped Graphene and Co ₉ S ₈ Nanoplates as Efficient Bifunctional Oxygen Electrocatalysts. ACS Applied Materials & Interfaces, 2017, 9, 12340-12347.	8.0	105
310	Synthesis of Hierarchically Porous Nitrogen-Doped Carbon Nanosheets from Agaric for High-Performance Symmetric Supercapacitors. Advanced Materials Interfaces, 2017, 4, 1700033.	3.7	77
311	Synthesis of Ring-Fused Pyridinium Salts by Intramolecular Nucleophilic Aromatic Substitution Reaction and Their Optoelectronic Properties. Organic Letters, 2017, 19, 1824-1827.	4.6	22
312	Recent advances and energy-related applications of high quality/chemically doped graphenes obtained by electrochemical exfoliation methods. Journal of Materials Chemistry A, 2017, 5, 7228-7242.	10.3	69
313	Two-dimensional nanosheets for electrocatalysis in energy generation and conversion. Journal of Materials Chemistry A, 2017, 5, 7257-7284.	10.3	220
314	N-Doped Cationic PAHs by Rh(III)-Catalyzed Double C-H Activation and Annulation of 2-Arylbenzimidazoles with Alkynes. Organic Letters, 2017, 19, 1702-1705.	4.6	65
315	Recent Advances in Ultrathin Two-Dimensional Nanomaterials. Chemical Reviews, 2017, 117, 6225-6331.	47.7	3,940
316	Advanced review of graphene-based nanomaterials in drug delivery systems: Synthesis, modification, toxicity and application. Materials Science and Engineering C, 2017, 77, 1363-1375.	7.3	186
317	A Review on Design Strategies for Carbon Based Metal Oxides and Sulfides Nanocomposites for High Performance Li and Na Ion Battery Anodes. Advanced Energy Materials, 2017, 7, 1601424.	19.5	486
318	Band gap opening in stanene induced by patterned B-N doping. Physical Chemistry Chemical Physics, 2017, 19, 3660-3669.	2.8	50
319	CuO nanoparticles supported on nitrogen and sulfur co-doped graphene nanocomposites for non-enzymatic glucose sensing. Journal of Nanoparticle Research, 2017, 19, 1.	1.9	16
320	A facile and simple method for synthesis of graphene oxide quantum dots from black carbon. Green Chemistry, 2017, 19, 900-904.	9.0	87
321	Amplified detection of leukemia cancer cells using an aptamer-conjugated gold-coated magnetic nanoparticles on a nitrogen-doped graphene modified electrode. Bioelectrochemistry, 2017, 114, 24-32.	4.6	109
322	Atomically Thin-Layered Molybdenum Disulfide (MoS ₂) for Bulk-Heterojunction Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 3223-3245.	8.0	207
323	The Role of Interfaces in Heterostructures. ChemPlusChem, 2017, 82, 42-59.	2.8	33
324	Porous Boron Carbon Nitride Nanosheets as Efficient Metal-Free Catalysts for the Oxygen Reduction Reaction in Both Alkaline and Acidic Solutions. ACS Energy Letters, 2017, 2, 306-312.	17.4	176
325	P and S dual-doped graphitic porous carbon for aerobic oxidation reactions: Enhanced catalytic activity and catalytic sites. Carbon, 2017, 114, 383-392.	10.3	65
326	Fabrication of novel metal-free Mo-graphene alloy for the highly efficient electrocatalytic reduction of H ₂ O ₂ . Talanta, 2017, 165, 143-151.	5.5	20

#	ARTICLE	IF	CITATIONS
327	Molecular-Level Design of Hierarchically Porous Carbons Codoped with Nitrogen and Phosphorus Capable of In Situ Self-Activation for Sustainable Energy Systems. <i>Small</i> , 2017, 13, 1602010.	10.0	47
328	Copper oxide supported on three-dimensional ammonia-doped porous reduced graphene oxide prepared through electrophoretic deposition for non-enzymatic glucose sensing. <i>Electrochimica Acta</i> , 2017, 224, 346-354.	5.2	53
329	Insights into the origin of the excited transitions in graphene quantum dots interacting with heavy metals in different media. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 30445-30463.	2.8	29
330	Photochemical and oxidative cyclisation of tetraphenylpyrroles. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 9293-9296.	2.8	7
331	Co embedded within biomass-derived mesoporous N-doped carbon as an acid-resistant and chemoselective catalyst for transfer hydrodeoxygenation of biomass with formic acid. <i>Green Chemistry</i> , 2017, 19, 5714-5722.	9.0	106
332	Understanding, measuring and tuning the electrochemical properties of biochar for environmental applications. <i>Reviews in Environmental Science and Biotechnology</i> , 2017, 16, 695-715.	8.1	68
333	Scalable Synthesis of High-Tapped-Density N-doped Graphene by Polyethyleneimine-Mediated Thermal Treatment of Graphene Oxide and Its Application for Supercapacitors. <i>Electrochimica Acta</i> , 2017, 254, 181-190.	5.2	13
334	Graphene-wrapped Li ₄ Ti ₅ O ₁₂ hollow spheres consisting of nanosheets as novel anode material for lithium-ion batteries. <i>Electrochimica Acta</i> , 2017, 254, 287-298.	5.2	21
335	Rupturing Cotton Microfibers into Mesoporous Nitrogen-Doped Carbon Nanosheets as Metal-Free Catalysts for Efficient Oxygen Electroreduction. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 9709-9717.	6.7	27
336	Adsorption of small gas molecules on pure and Al-doped graphene sheet: a quantum mechanical study. <i>Bulletin of Materials Science</i> , 2017, 40, 1263-1271.	1.7	21
337	Dual-wavelength, passively Q-switched thulium-doped fiber laser with N-doped graphene saturable absorber. <i>Optik</i> , 2017, 149, 391-397.	2.9	4
338	Nitrogen-Doped Defective Graphene Aerogel as Anode for all Graphene-Based Lithium Ion Capacitor. <i>ChemistrySelect</i> , 2017, 2, 8436-8445.	1.5	12
339	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. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 9935-9944.	6.7	70
340	Reduced graphene oxide-germanium quantum dot nanocomposite: electronic, optical and magnetic properties. <i>Nanotechnology</i> , 2017, 28, 495703.	2.6	15
341	Synthesis of graphene oxide/polybenzoxazine-based nitrogen-containing porous carbon nanocomposite for enhanced supercapacitor properties. <i>Electrochimica Acta</i> , 2017, 251, 12-24.	5.2	19
342	Self-doped carbon architectures with heteroatoms containing nitrogen, oxygen and sulfur as high-performance anodes for lithium- and sodium-ion batteries. <i>Electrochimica Acta</i> , 2017, 251, 396-406.	5.2	104
343	First Principles Calculations of Graphene Doped with Al, P and Si Heteroatoms. <i>Nano Hybrids and Composites</i> , 0, 16, 52-55.	0.8	5
344	Passively Q-switched and mode-locked erbium doped fiber laser based on N-doped graphene saturable absorber. <i>Laser Physics</i> , 2017, 27, 105302.	1.2	5

#	ARTICLE	IF	CITATIONS
345	CO ₂ electroreduction reaction on heteroatom-doped carbon cathode materials. Journal of Materials Chemistry A, 2017, 5, 21596-21603.	10.3	60
346	N-doped graphene supported W/C composite material as an efficient non-noble metal electrocatalyst for hydrogen evolution reaction. Electrochimica Acta, 2017, 251, 660-671.	5.2	25
347	Towards large-scale in free-standing graphene and N-graphene sheets. Scientific Reports, 2017, 7, 10175.	3.3	71
348	Electrochemical dopamine sensor based on P-doped graphene: Highly active metal-free catalyst and metal catalyst support. Materials Science and Engineering C, 2017, 81, 452-458.	7.3	43
349	Water-soluble triphenylphosphine-derived microgel as the template towards in-situ nitrogen, phosphorus co-doped mesoporous graphene framework for supercapacitor and electrocatalytic oxygen reduction. Chemical Engineering Journal, 2017, 328, 417-427.	12.7	54
350	Simple synthesis of ZnO nanoparticles on N-doped reduced graphene oxide for the electrocatalytic sensing of L-cysteine. RSC Advances, 2017, 7, 35004-35011.	3.6	33
351	Theoretical evaluation of the structure-activity relationship in graphene-based electrocatalysts for hydrogen evolution reactions. RSC Advances, 2017, 7, 27033-27039.	3.6	21
352	Ultrathin Two-Dimensional Multinary Layered Metal Chalcogenide Nanomaterials. Advanced Materials, 2017, 29, 1701392.	21.0	242
353	Sonication-Assisted Synthesis of Hydantoin Derivative-Decorated Graphene Oxide-Based Sensor for Guanine. ChemistrySelect, 2017, 2, 5832-5837.	1.5	1
354	Conversion of lipids from wet microalgae into biodiesel using sulfonated graphene oxide catalysts. Bioresource Technology, 2017, 244, 569-574.	9.6	68
355	Effects of the nitrogen doping configuration and site on the thermal conductivity of defective armchair graphene nanoribbons. Journal of Molecular Modeling, 2017, 23, 247.	1.8	10
356	Nitrogen-Doped Cobalt Ferrite/Carbon Nanocomposites for Supercapacitor Applications. ChemElectroChem, 2017, 4, 2952-2958.	3.4	59
357	Effects of domain shape and size in the electronic and optical properties of boron nitride doped graphenes. Superlattices and Microstructures, 2017, 111, 1137-1144.	3.1	8
358	Interaction and Quantum Capacitance of Nitrogen/Sulfur Co-Doped Graphene: A Theoretical Calculation. Journal of Physical Chemistry C, 2017, 121, 18344-18350.	3.1	40
359	Microwave irradiated N- and B,Cl-doped graphene: Oxidation method has strong influence on capacitive behavior. Applied Materials Today, 2017, 9, 204-211.	4.3	25
360	Influence of Phosphorus Configuration on Electronic Structure and Oxygen Reduction Reactions of Phosphorus-Doped Graphene. Journal of Physical Chemistry C, 2017, 121, 19321-19328.	3.1	86
361	Synergistic effects of nitrogen-doped graphene and Fe ₂ O ₃ nanocomposites in catalytic oxidization of aldehyde with O ₂ . Chemical Engineering Journal, 2017, 330, 880-889.	12.7	18
362	Co Nanoparticles/Co, N, S Tri-doped Graphene Templated from In-Situ-Formed Co, S Co-doped g-C ₃ N ₄ as an Active Bifunctional Electrocatalyst for Overall Water Splitting. ACS Applied Materials & Interfaces, 2017, 9, 28566-28576.	8.0	121

#	ARTICLE	IF	CITATIONS
363	Economic and High Performance Phosphorus@Carbon Composite for Lithium and Sodium Storage. ACS Omega, 2017, 2, 4440-4446.	3.5	10
364	Electronic structure of worm-eaten graphene. Japanese Journal of Applied Physics, 2017, 56, 025101.	1.5	5
365	A hybrid dye-clay nano-pigment: Synthesis, characterization and application in organic coatings. Dyes and Pigments, 2017, 147, 234-240.	3.7	35
366	Single precursor mediated one-step synthesis of ternary-doped and functionalized reduced graphene oxide by pH tuning for energy storage applications. Chemical Engineering Journal, 2017, 330, 965-978.	12.7	28
367	Quantum Chemical Predictions on Alkaline-Earth Doped Graphene: A Density Functional Theory (DFT) Based Investigation for a Novel Class of Carbon-Based Two-Dimensional Nanomaterials toward Electrochemical, Catalytic, and Electronic Applications. ECS Transactions, 2017, 77, 629-636.	0.5	2
368	Exploring Novel Dopants in Graphene: Unique Properties, Group Trends, and New Insights from DFT for Electrocatalytic Applications. ECS Transactions, 2017, 77, 1383-1391.	0.5	0
369	Electrochemical behavior of glycine-mediated N-doped reduced graphene oxide. New Journal of Chemistry, 2017, 41, 8333-8340.	2.8	17
370	MnFe ₂ O ₄ @nitrogen-doped reduced graphene oxide nanohybrid: an efficient bifunctional electrocatalyst for anodic hydrazine oxidation and cathodic oxygen reduction. Catalysis Science and Technology, 2017, 7, 5920-5931.	4.1	28
371	Facile synthesis of nitrogen-doped graphene containing azobenzene moieties for the oxygen reduction reaction. Molecular Crystals and Liquid Crystals, 2017, 653, 33-38.	0.9	1
372	Toward a molecular design of porous carbon materials. Materials Today, 2017, 20, 592-610.	14.2	202
373	Growth and properties of large-area sulfur-doped graphene films. Journal of Materials Chemistry C, 2017, 5, 7944-7949.	5.5	21
374	Tailoring catalytic activities of transition metal disulfides for water splitting. FlatChem, 2017, 4, 68-80.	5.6	24
375	One-step and low-temperature synthesis of iodine-doped graphene and its multifunctional applications for hydrogen evolution reaction and electrochemical sensing. Electrochimica Acta, 2017, 246, 1155-1162.	5.2	26
376	Nitrogen-doped graphene hydrogels as potential adsorbents and photocatalysts for environmental remediation. Chemical Engineering Journal, 2017, 327, 751-763.	12.7	67
377	Comprehensive Understanding of the Effects of Carbon Nanostructures on Redox Catalytic Properties and Stability in Oxidative Dehydrogenation. ACS Catalysis, 2017, 7, 5257-5267.	11.2	24
378	Electrochemical Determination of Carbendazim in Food Samples Using an Electrochemically Reduced Nitrogen-Doped Graphene Oxide-Modified Glassy Carbon Electrode. Food Analytical Methods, 2017, 10, 1479-1487.	2.6	22
379	Enhanced photocatalytic property of BiFeO ₃ /N-doped graphene composites and mechanism insight. Applied Surface Science, 2017, 396, 879-887.	6.1	50
380	Electric double layer capacitors employing nitrogen and sulfur co-doped, hierarchically porous graphene electrodes with synergistically enhanced performance. Journal of Power Sources, 2017, 337, 65-72.	7.8	44

#	ARTICLE	IF	CITATIONS
381	High-performance symmetric supercapacitors based on carbon nanosheets framework with graphene hydrogel architecture derived from cellulose acetate. <i>Journal of Power Sources</i> , 2017, 337, 45-53.	7.8	121
382	Nanocomposites of graphene and graphene oxides: Synthesis, molecular functionalization and application in electrochemical sensors and biosensors. A review. <i>Mikrochimica Acta</i> , 2017, 184, 1-44.	5.0	296
383	Plasma-etched, S-doped graphene for effective hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 4184-4192.	7.1	67
384	Substrate-Induced Synthesis of Nitrogen-Doped Holey Graphene Nanocapsules for Advanced Metal-Free Bifunctional Electrocatalysts. <i>Particle and Particle Systems Characterization</i> , 2017, 34, 1600207.	2.3	15
385	Preparation of chloro-functionalized reduced graphene oxide by silver-catalyzed radical reaction. <i>Chinese Chemical Letters</i> , 2017, 28, 407-411.	9.0	5
386	Heteroatom-doped graphene as electrocatalysts for air cathodes. <i>Materials Horizons</i> , 2017, 4, 7-19.	12.2	142
387	Three-dimensional N-doped, plasma-etched graphene: Highly active metal-free catalyst for hydrogen evolution reaction. <i>Applied Catalysis A: General</i> , 2017, 529, 127-133.	4.3	73
388	Three-dimensional phosphorus-doped graphene as an efficient metal-free electrocatalyst for electrochemical sensing. <i>Sensors and Actuators B: Chemical</i> , 2017, 241, 584-591.	7.8	48
389	Synthesis and physical properties of [4]cyclo-3,7-dibenzo[<i>b</i>], [4]thiophene and its <i>S</i> -dioxide. <i>Canadian Journal of Chemistry</i> , 2017, 95, 351-356.	1.1	31
390	Synthesis of nitrogen and sulfur co-doped graphene supported hollow ZnFe ₂ O ₄ nanosphere composites for application in lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2017, 691, 407-415.	5.5	102
391	Solvothermal Synthesis of Mesoporous Manganese Sulfide Nanoparticles Supported on Nitrogen and Sulfur Co-doped Graphene with Superior Lithium Storage Performance. <i>ChemElectroChem</i> , 2017, 4, 81-89.	3.4	37
392	Surface chemistry and catalysis confined under two-dimensional materials. <i>Chemical Society Reviews</i> , 2017, 46, 1842-1874.	38.1	412
393	Fabrication of nitrogen and sulfur co-doped graphene nanoribbons with porous architecture for high-performance supercapacitors. <i>Chemical Engineering Journal</i> , 2017, 312, 180-190.	12.7	130
394	Facile synthesis of sulfur-doped graphene quantum dots as fluorescent sensing probes for Ag ⁺ ions detection. <i>Sensors and Actuators B: Chemical</i> , 2017, 242, 231-237.	7.8	194
395	Simple Synthesis of N-Doped Interconnected Porous Carbon from Chinese Tofu for High-Performance Supercapacitor and Lithium-Ion Battery Applications. <i>Journal of the Electrochemical Society</i> , 2017, 164, A3832-A3839.	2.9	22
396	4. Controlled Chemical Synthesis in CVD Graphene. , 2017, , .		1
397	Nitrogen-Rich Polyacrylonitrile-Based Graphitic Carbons for Hydrogen Peroxide Sensing. <i>Sensors</i> , 2017, 17, 2407.	3.8	28
398	S- and N-Doped Graphene Nanomaterials for the Oxygen Reduction Reaction. <i>Catalysts</i> , 2017, 7, 278.	3.5	45

#	ARTICLE	IF	CITATIONS
399	Synthesis and Assembly Chemistry of Inorganic Polymers. , 2017, , 279-306.		3
400	Controlled Chemical Synthesis in CVD Graphene. ChemistrySelect, 2017, 2, .	1.5	7
401	Exploration of pyrazine-embedded antiaromatic polycyclic hydrocarbons generated by solution and on-surface azomethine ylide homocoupling. Nature Communications, 2017, 8, 1948.	12.8	88
402	Graphitization and Pore Structure Adjustment of Graphene for Energy Storage and Conversion. Current Graphene Science, 2017, 1, .	0.5	2
403	Nitrogen-doped Graphene Sheets Prepared from Different Graphene-Based Precursors as High Capacity Anode Materials for Lithium-Ion Batteries. International Journal of Electrochemical Science, 2017, 12, 7154-7165.	1.3	12
404	N,P,S-Codoped Hierarchically Porous Carbon Spheres with Well-Balanced Gravimetric/Volumetric Capacitance for Supercapacitors. ACS Sustainable Chemistry and Engineering, 2018, 6, 5265-5272.	6.7	120
405	Recent advances in the nanoengineering of electrocatalysts for CO ₂ reduction. Nanoscale, 2018, 10, 6235-6260.	5.6	139
406	UV light induced electrophilic fluorination of graphene oxide. Materials Letters, 2018, 220, 99-103.	2.6	9
407	General aspects in the use of graphenes in catalysis. Materials Horizons, 2018, 5, 363-378.	12.2	49
408	Binding Sulfur-Doped Nb ₂ O ₅ Hollow Nanospheres on Sulfur-Doped Graphene Networks for Highly Reversible Sodium Storage. Advanced Functional Materials, 2018, 28, 1800394.	14.9	106
409	Metal-Free Oxygen Evolution and Oxygen Reduction Reaction Bifunctional Electrocatalyst in Alkaline Media: From Mechanisms to Structure-Catalytic Activity Relationship. ACS Sustainable Chemistry and Engineering, 2018, 6, 4973-4980.	6.7	62
410	A new electrochemically responsive 2D π -conjugated covalent organic framework as a high performance supercapacitor. Microporous and Mesoporous Materials, 2018, 266, 109-116.	4.4	84
411	Deciphering acetaminophen electrical catalytic degradation using single-form S doped graphene/Pt/TiO ₂ . Chemical Engineering Journal, 2018, 343, 662-675.	12.7	59
412	Flexible phosphorus doped carbon nanosheets/nanofibers: Electrospun preparation and enhanced Li-storage properties as free-standing anodes for lithium ion batteries. Journal of Power Sources, 2018, 384, 27-33.	7.8	42
413	A general approach to homogeneous sub-nanometer metallic particle/graphene composites by S-coordinator. Solid State Communications, 2018, 273, 17-22.	1.9	2
414	Design of Pyrrolic-N-Rich Carbon Dots with Absorption in the First Near-Infrared Window for Photothermal Therapy. ACS Applied Nano Materials, 2018, 1, 2368-2375.	5.0	94
415	Tetrachlorinated Polycyclic Aromatic Dicarboximides: New Electron-Poor π -Scaffolds and NIR Emitters by Palladium-Catalyzed Annulation Reaction. Chemistry - A European Journal, 2018, 24, 9409-9416.	3.3	12
416	Graphene quantum dots modified Ag ₃ PO ₄ for facile synthesis and the enhanced photocatalytic performance. Journal of the Chinese Advanced Materials Society, 2018, 6, 255-269.	0.7	8

#	ARTICLE	IF	CITATIONS
417	A self-template and self-activation co-coupling green strategy to synthesize high surface area ternary-doped hollow carbon microspheres for high performance supercapacitors. Journal of Colloid and Interface Science, 2018, 524, 165-176.	9.4	51
418	Tuning the optical properties of graphene quantum dots for biosensing and bioimaging. Journal of Materials Chemistry B, 2018, 6, 3219-3234.	5.8	155
419	Nitrogen-doped carbon nanotubes as an excellent substrate for electroless deposition of Pd nanoparticles with a high efficiency toward the hydrogen evolution reaction. Electrochemistry Communications, 2018, 90, 91-95.	4.7	18
420	Rapid transformation of heterocyclic building blocks into nanoporous carbons for high-performance supercapacitors. RSC Advances, 2018, 8, 12300-12309.	3.6	38
421	Distribution-dependent capacitive and magnetic properties of Mn ₃ O ₄ nanoparticles on reduced graphene oxide. Diamond and Related Materials, 2018, 84, 169-177.	3.9	3
422	Simple preparation and highly selective detection of silver ions using an electrochemical sensor based on sulfur-doped graphene and a 3,3',5,5'-tetramethylbenzidine composite modified electrode. Analyst, The, 2018, 143, 2076-2082.	3.5	8
423	One Step Synthesis of Nitrogen-Doped Graphene from Naphthalene and Urea by Atmospheric Chemical Vapor Deposition. Journal of Inorganic and Organometallic Polymers and Materials, 2018, 28, 1609-1615.	3.7	6
424	The orientation construction of S and N dual-doped discoid-like graphene with high-rate electrode property. Applied Surface Science, 2018, 442, 467-475.	6.1	14
425	Recent developments of metallic nanoparticle-graphene nanocatalysts. Progress in Materials Science, 2018, 94, 306-383.	32.8	102
426	Recent Advances in Layered Ti ₃ C ₂ T _x MXene for Electrochemical Energy Storage. Small, 2018, 14, e1703419.	10.0	729
427	Graphene with cobalt oxide and tungsten carbide as a low-cost counter electrode catalyst applied in Pt-free dye-sensitized solar cells. Journal of Power Sources, 2018, 380, 18-25.	7.8	49
428	Dopant-Modulating Mechanism of Lithium Adsorption and Diffusion at the Graphene/Li ₂ S Interface. Physical Review Applied, 2018, 9, .	3.8	15
429	High Capacitive Storage Performance of Sulfur and Nitrogen Codoped Mesoporous Graphene. ChemSusChem, 2018, 11, 1048-1055.	6.8	23
430	Reduced graphene oxide doped predominantly with CF ₂ groups as a superior anode material for long-life lithium-ion batteries. Chemical Communications, 2018, 54, 2727-2730.	4.1	37
431	CuAg@Ag Core-Shell Nanostructure Encapsulated by N-Doped Graphene as a High-Performance Catalyst for Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2018, 10, 4672-4681.	8.0	71
432	Structural Engineering of 2D Nanomaterials for Energy Storage and Catalysis. Advanced Materials, 2018, 30, e1706347.	21.0	297
433	Hydrogen storage in N- and B-doped graphene decorated by small platinum clusters: A computational study. Applied Surface Science, 2018, 441, 607-612.	6.1	42
434	Influence of defect locations and nitrogen doping configurations on the mechanical properties of armchair graphene nanoribbons. Journal of Molecular Modeling, 2018, 24, 43.	1.8	13

#	ARTICLE	IF	CITATIONS
435	A cross-disciplinary overview of naturally derived materials for electrochemical energy storage. <i>Materials Today Energy</i> , 2018, 7, 58-79.	4.7	58
436	“Metal-free” electrocatalysis: Quaternary-doped graphene and the alkaline oxygen reduction reaction. <i>Applied Catalysis A: General</i> , 2018, 553, 107-116.	4.3	46
437	Theoretical N K-edge NEXAFS spectroscopy study for configuration of a dipolar molecule on graphene. <i>Materials Chemistry and Physics</i> , 2018, 207, 309-314.	4.0	8
438	Graphene Platforms for Smart Energy Generation and Storage. <i>Joule</i> , 2018, 2, 245-268.	24.0	168
439	Nitrogen and sulphur co-doped multiwalled carbon nanotubes as an efficient electrocatalyst for improved oxygen electroreduction. <i>Applied Surface Science</i> , 2018, 449, 697-704.	6.1	29
440	Microwave-assisted synthesis of palladium nanoparticles intercalated nitrogen doped reduced graphene oxide and their electrocatalytic activity for direct-ethanol fuel cells. <i>Journal of Colloid and Interface Science</i> , 2018, 515, 160-171.	9.4	91
441	Controlled Pore Sizes in Monolayer C ₂ N Act as Ultrasensitive Probes for Detection of Gaseous Pollutants (HF, HCN, and H ₂ S). <i>Journal of Physical Chemistry C</i> , 2018, 122, 2248-2258.	3.1	53
442	Voltammetric sensing based on the use of advanced carbonaceous nanomaterials: a review. <i>Mikrochimica Acta</i> , 2018, 185, 89.	5.0	67
443	Engineering nanoscale p-n junction via the synergetic dual-doping of p-type boron-doped graphene hybridized with n-type oxygen-doped carbon nitride for enhanced photocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2018, 6, 3181-3194.	10.3	143
444	Electronic transport calculations for CO ₂ adsorption on calcium-decorated graphene nanoribbons. <i>Computational Materials Science</i> , 2018, 145, 134-139.	3.0	6
445	Laser Reduction of Nitrogen-Rich Carbon Nanoparticles@Graphene Oxides Composites for High Rate Performance Supercapacitors. <i>ACS Applied Nano Materials</i> , 2018, 1, 777-784.	5.0	17
446	Facile Synthesis of Nitrogen and Halogen Dual-Doped Porous Graphene as an Advanced Performance Anode for Lithium-Ion Batteries. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701261.	3.7	21
447	Tunable Catalytic Performance of Single Pt Atom on Doped Graphene in Direct Dehydrogenation of Propane by Rational Doping: A Density Functional Theory Study. <i>Journal of Physical Chemistry C</i> , 2018, 122, 1570-1576.	3.1	52
448	Monolayer CS as a metal-free photocatalyst with high carrier mobility and tunable band structure: a first-principles study. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 065701.	1.8	2
449	N/S-doped graphene derivatives and TiO ₂ for catalytic ozonation and photocatalysis of water pollutants. <i>Chemical Engineering Journal</i> , 2018, 348, 888-897.	12.7	84
450	Graphene-organic small molecule hybrid electrocatalyst for oxygen reduction reaction. <i>Molecular Crystals and Liquid Crystals</i> , 2018, 660, 98-103.	0.9	0
451	MoSe ₂ /phosphorus-doped graphene nanocomposite: Synthesis and its electrochemical sodium-storage and catalytic performance. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 551, 87-94.	4.7	19
452	Densely packed porous graphene film for high volumetric performance supercapacitor. <i>Electrochimica Acta</i> , 2018, 276, 118-124.	5.2	28

#	ARTICLE	IF	CITATIONS
453	Highly flexible pseudocapacitors of phosphorus-incorporated porous reduced graphene oxide films. <i>Journal of Power Sources</i> , 2018, 390, 93-99.	7.8	39
454	On-surface synthesis of a nitrogen-embedded buckybowl with inverse Stone–Thrower–Wales topology. <i>Nature Communications</i> , 2018, 9, 1714.	12.8	98
455	Three-dimensional N- and S-codoped graphene hydrogel with in-plane pores for high performance supercapacitor. <i>Microporous and Mesoporous Materials</i> , 2018, 268, 260-267.	4.4	39
456	Dipole-modified graphene with ultrahigh gas sensibility. <i>Applied Surface Science</i> , 2018, 440, 409-414.	6.1	15
457	Role of chemical functional groups on thermal and electrical properties of various graphene oxide derivatives: a comparative x-ray photoelectron spectroscopy analysis. <i>Materials Research Express</i> , 2018, 5, 035604.	1.6	24
458	Preparation of carbon-based AuAg alloy nanoparticles by using the heterometallic [Au ₄ Ag ₄] cluster for efficient oxidative coupling of anilines. <i>Dalton Transactions</i> , 2018, 47, 5780-5788.	3.3	10
459	Structure prediction of boron-doped graphene by machine learning. <i>Journal of Chemical Physics</i> , 2018, 148, 241716.	3.0	46
460	Epoxy/nanopigment coatings: Preparation and evaluation of physical-mechanical properties. <i>Progress in Organic Coatings</i> , 2018, 119, 164-170.	3.9	8
461	A Facile Approach to Prepare Multiple Heteroatom-Doped Carbon Materials from Imine-Linked Porous Organic Polymers. <i>Scientific Reports</i> , 2018, 8, 4200.	3.3	57
462	Graphene for Thermoelectric Applications: Prospects and Challenges. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2018, 43, 133-157.	12.3	94
463	Heteroatom-Doped Carbonaceous Photocatalysts for Solar Fuel Production and Environmental Remediation. <i>ChemCatChem</i> , 2018, 10, 62-123.	3.7	39
464	Two-Dimensional Layered Materials as Catalyst Supports. <i>ChemNanoMat</i> , 2018, 4, 28-40.	2.8	61
465	Chemistry of Graphene Derivatives: Synthesis, Applications, and Perspectives. <i>Chemistry - A European Journal</i> , 2018, 24, 5992-6006.	3.3	99
466	Role of different nitrogen functionalities on the electrochemical performance of activated carbons. <i>Carbon</i> , 2018, 126, 65-76.	10.3	33
467	One-step synthesis of 3D sulfur/nitrogen dual-doped graphene supported nano silicon as anode for Li-ion batteries. <i>Applied Surface Science</i> , 2018, 433, 367-373.	6.1	31
468	C3B monolayer as an anchoring material for lithium-sulfur batteries. <i>Carbon</i> , 2018, 129, 38-44.	10.3	105
469	Two- and three-dimensional graphene-based hybrid composites for advanced energy storage and conversion devices. <i>Journal of Materials Chemistry A</i> , 2018, 6, 702-734.	10.3	126
470	Surface Fluorination to Boost the Stability of the Fe/N/C Cathode in Proton Exchange Membrane Fuel Cells. <i>ChemElectroChem</i> , 2018, 5, 1914-1921.	3.4	61

#	ARTICLE	IF	CITATIONS
471	Effect of boron doping level on the photocatalytic activity of graphene aerogels. Carbon, 2018, 128, 237-248.	10.3	56
472	N/S/B-doped graphitized carbon encased Fe species as a highly active and durable catalyst towards oxygen reduction reaction. Journal of Colloid and Interface Science, 2018, 514, 108-116.	9.4	30
473	Customizing Photoredox Properties of PXXâ€¢based Dyes through Energy Level Rigid Shifts of Frontier Molecular Orbitals. Chemistry - A European Journal, 2018, 24, 4382-4389.	3.3	33
474	Towards high-powered remote WLED based on flexible white-luminescent polymer composite films containing S, N co-doped graphene quantum dots. Chemical Engineering Journal, 2018, 336, 406-415.	12.7	54
475	Sustainable Growth and Lipid Production from <i>Chlorella pyrenoidosa</i> Using N-Doped Carbon Nanosheets: Unravelling the Role of Graphitic Nitrogen. ACS Sustainable Chemistry and Engineering, 2018, 6, 774-780.	6.7	23
476	Surface modification of co-doped reduced graphene oxide through alkanolamine functionalization for enhanced electrochemical performance. New Journal of Chemistry, 2018, 42, 1105-1114.	2.8	14
477	A general in-situ etching and synchronous heteroatom doping strategy to boost the capacitive performance of commercial carbon fiber cloth. Chemical Engineering Journal, 2018, 335, 638-646.	12.7	34
478	One-Shot Multiple Borylation toward BN-Doped Nanographenes. Journal of the American Chemical Society, 2018, 140, 1195-1198.	13.7	380
479	A seed-mediated method to design N-doped graphene supported gold-silver nanothorns sensor for rutin detection. Journal of Colloid and Interface Science, 2018, 512, 446-454.	9.4	48
480	Recent Progress in Rechargeable Potassium Batteries. Advanced Functional Materials, 2018, 28, 1802938.	14.9	518
481	Grapheneâ€¢based Electrochemical Glucose Sensors: Fabrication and Sensing Properties. Electroanalysis, 2018, 30, 2504-2524.	2.9	75
482	Regioselectivity in hexagonal boron nitride co-doped graphene. New Journal of Chemistry, 2018, 42, 18913-18918.	2.8	15
483	Synergistic effect of adsorption coupled with catalysis based on graphene-supported MOF hybrid aerogel for promoted removal of dyes. RSC Advances, 2018, 8, 34552-34559.	3.6	42
484	Ullazine-based materials: towards novel opportunities in organic electronics. Journal of Materials Chemistry C, 2018, 6, 11943-11950.	5.5	15
485	Growth temperature dependence of nitrogen doped graphene structure on Pt (111) and analysis of its reactivity with oxygen. RSC Advances, 2018, 8, 34309-34313.	3.6	3
486	Two-Dimensional Unilamellar Cation-Deficient Metal Oxide Nanosheet Superlattices for High-Rate Sodium Ion Energy Storage. ACS Nano, 2018, 12, 12337-12346.	14.6	111
487	MnO ₂ /CdS/N-doped Graphite Nanocomposite for High-Performance Supercapacitors. International Journal of Electrochemical Science, 2018, 13, 642-654.	1.3	7
488	Bromineâ€¢induced Defects in Anionâ€¢Deficient Zinc Oxide as Stable Photocatalysis Promoters. ChemistrySelect, 2018, 3, 13345-13354.	1.5	8

#	ARTICLE	IF	CITATIONS
489	Enhanced hydrogen evolution performance by covalent-linked ultrafine, uniform Pt nanoparticles with doped sulfur atoms in three-dimensional graphene. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 23231-23238.	7.1	13
490	Electrostatically regulated ternary-doped carbon foams with exposed active sites as metal-free oxygen reduction electrocatalysts. <i>Nanoscale</i> , 2018, 10, 19498-19508.	5.6	17
491	Carbon nanoscrolls: synthesis and applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 18891-18904.	2.2	9
492	Defects on carbons for electrocatalytic oxygen reduction. <i>Chemical Society Reviews</i> , 2018, 47, 7628-7658.	38.1	432
493	A new class of N-doped ionic PAHs via intramolecular [4+2]-cycloaddition between arylpyridines and alkynes. <i>Chemical Communications</i> , 2018, 54, 11909-11912.	4.1	24
494	Continuous Synthesis of Hydrogenated Graphene in Thermal Plasma. <i>Journal of Structural Chemistry</i> , 2018, 59, 773-779.	1.0	3
495	PdAu nanoparticles anchored on P and Se codoped carbon support as an efficacious electrocatalyst towards glycerol electrooxidation. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 93, 500-508.	5.3	12
496	Preparation of Sulphur-Doped Graphene-Based Electrodes by Cyclic Voltammetry: A Potential Application for Vanadium Redox Flow Battery. <i>International Journal of Electrochemical Science</i> , 2018, 13, 875-885.	1.3	54
497	Supramolecule polymerization derived porous nitrogen-doped reduced graphene oxide as a high-performance electrode material for supercapacitors. <i>Electrochimica Acta</i> , 2018, 292, 20-30.	5.2	36
498	Heteroatom-doped carbon materials and their composites as electrocatalysts for CO ₂ reduction. <i>Journal of Materials Chemistry A</i> , 2018, 6, 18782-18793.	10.3	136
502	pH-sensitive and biocompatible quercetin-loaded GO-PEA-HA carrier improved antitumour efficiency and specificity. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018, 46, S28-S37.	2.8	14
503	Bridging the Gap between Reality and Ideal in Chemical Vapor Deposition Growth of Graphene. <i>Chemical Reviews</i> , 2018, 118, 9281-9343.	47.7	260
504	Synthesis and Physical Properties of Polyfluorinated Cycloparaphenylenes. <i>Organic Letters</i> , 2018, 20, 5973-5976.	4.6	46
505	Selective photocatalytic benzene hydroxylation to phenol using surface-modified Cu ₂ O supported on graphene. <i>Journal of Materials Chemistry A</i> , 2018, 6, 19782-19787.	10.3	29
506	Excellent electrochemical properties of graphene-like carbon obtained from acid-treating natural black talc as Li-ion battery anode. <i>Electrochimica Acta</i> , 2018, 289, 407-414.	5.2	6
507	Synthesis and Functionalization of Nanomaterials. <i>Springer Series in Materials Science</i> , 2018, , 15-55.	0.6	12
508	Large-scale synthesis of free-standing N-doped graphene using microwave plasma. <i>Scientific Reports</i> , 2018, 8, 12595.	3.3	85
509	Enhanced heterogeneous catalytic oxidation of 2,4-dichlorophenoxyacetic acid in aqueous solution by nanoscale zero-valent iron particle@supercapacitor/nitrogen dual-doped r-GO (nZVIFs@SN-G) composites. <i>Applied Catalysis A: General</i> , 2018, 566, 60-73.	4.3	12

#	ARTICLE	IF	CITATIONS
510	Effects of heteroatom doping on the performance of graphene in sodium-ion batteries: A density functional theory investigation. Carbon, 2018, 140, 276-285.	10.3	106
511	Monatomic oxygen adsorption on halogen-substituted monovacant graphene. International Journal of Hydrogen Energy, 2018, 43, 17673-17681.	7.1	1
512	Three-dimensional interconnected nitrogen-doped mesoporous carbons as active electrode materials for application in electrocatalytic oxygen reduction and supercapacitors. Journal of Colloid and Interface Science, 2018, 527, 230-240.	9.4	56
513	Highly efficient electrocatalyst of N-doped graphene-encapsulated cobalt-iron carbides towards oxygen reduction reaction. Carbon, 2018, 137, 358-367.	10.3	95
514	Experimental Study of the Structural Effect on the Nanosecond Nonlinear Optical Response of O-Doped Polycyclic Aromatic Hydrocarbons. Journal of Physical Chemistry A, 2018, 122, 5142-5152.	2.5	9
515	Pyridinic-N-Doped Graphene Paper from Perforated Graphene Oxide for Efficient Oxygen Reduction. ACS Omega, 2018, 3, 5522-5530.	3.5	42
516	Oxygen-Deficient Zig-Zag Molecular Ribbons. Angewandte Chemie, 2018, 130, 9080-9084.	2.0	12
517	Synthesis of nitrogen-doped polymeric resin-derived porous carbon for high performance supercapacitors. Microporous and Mesoporous Materials, 2018, 270, 204-210.	4.4	28
518	Nitrogen, Sulfur, Phosphorous Co-Doped Interconnected Porous Carbon Nanosheets with High Defect Density for Enhancing Supercapacitor and Lithium-Ion Battery Properties. ChemElectroChem, 2018, 5, 2367-2375.	3.4	40
519	Modulating the oxygen reduction activity of heteroatom-doped carbon catalysts via the triple effect: charge, spin density and ligand effect. Chemical Science, 2018, 9, 5795-5804.	7.4	121
520	A facile synthesis of heteroatom-doped carbon framework anchored with TiO ₂ nanoparticles for high performance lithium ion battery anodes. Journal of Nanoparticle Research, 2018, 20, 1.	1.9	9
521	3D nitrogen-doped graphene aerogels as efficient electrocatalyst for the oxygen reduction reaction. Carbon, 2018, 139, 137-144.	10.3	75
522	First-principles study of the stability and edge stress of nitrogen-decorated graphene nanoribbons. Physical Review B, 2018, 97, .	3.2	4
523	Preparation of S/N co-doped graphene through a self-generated high gas pressure for high rate supercapacitor. Applied Surface Science, 2018, 456, 781-788.	6.1	49
524	Phosphorus-doped graphene-based electrochemical sensor for sensitive detection of acetaminophen. Analytica Chimica Acta, 2018, 1036, 26-32.	5.4	95
525	Doping carbon networks with phosphorus for supporting Pd in catalyzing selective oxidation of benzyl alcohol. Journal of Nanoparticle Research, 2018, 20, 1.	1.9	4
526	Ultrahigh rate and long-life nano-LiFePO ₄ cathode for Li-ion batteries. Electrochimica Acta, 2018, 283, 385-392.	5.2	41
527	Electronic structure tuning of stanene monolayers from DFT calculations: Effects of substitutional elemental doping. Applied Surface Science, 2018, 456, 290-301.	6.1	38

#	ARTICLE	IF	CITATIONS
528	Hidden by graphene – Towards effective screening of interface van der Waals interactions via monolayer coating. Carbon, 2018, 139, 486-491.	10.3	38
529	Engineering Defects in Graphene Oxide for Selective Ammonia and Enzyme-Free Glucose Sensing and Excellent Catalytic Performance for para-Nitrophenol Reduction. ACS Applied Materials & Interfaces, 2018, 10, 25285-25294.	8.0	7
530	Encapsulation of Nonprecious Metal into Ordered Mesoporous N-Doped Carbon for Efficient Quinoline Transfer Hydrogenation with Formic Acid. ACS Catalysis, 2018, 8, 8396-8405.	11.2	93
531	Microporosity-Controlled Synthesis of Heteroatom Codoped Carbon Nanocages by Wrap-Bake-Sublime Approach for Flexible All-Solid-State Supercapacitors. Advanced Functional Materials, 2018, 28, 1803786.	14.9	92
532	Dry microwave heating enables scalable fabrication of pristine holey graphene nanoplatelets and their catalysis in reductive hydrogen atom transfer reactions. Carbon, 2018, 139, 861-871.	10.3	25
533	The ambipolar transport behavior of WSe ₂ transistors and its analogue circuits. NPG Asia Materials, 2018, 10, 703-712.	7.9	124
534	DFT study on the electronic structure and optical properties of N, Al, and N-Al doped graphene. Applied Surface Science, 2018, 459, 354-362.	6.1	73
535	Strain Effects in Gallium Nitride Adsorption on Defective and Doped Graphene: First-Principles Calculations. Crystals, 2018, 8, 58.	2.2	8
536	Microwave-Assisted Rapid Synthesis of Graphene-Supported Single Atomic Metals. Advanced Materials, 2018, 30, e1802146.	21.0	244
537	Porous magnetic iron- manganese oxide nanocubes derived from metal organic framework deposited on reduced graphene oxide nanoflake as a bi-functional electrocatalyst for hydrogen evolution and oxygen reduction reaction. Electrochimica Acta, 2018, 283, 1359-1365.	5.2	19
538	Sulfur-Doped Graphene-Supported Nickel-Core Palladium-Shell Nanoparticles as Efficient Oxygen Reduction and Methanol Oxidation Electrocatalyst. ACS Applied Energy Materials, 2018, 1, 3869-3880.	5.1	25
539	A facile N doping strategy to prepare mass-produced pyrrolic N-enriched carbon fibers with enhanced lithium storage properties. Electrochimica Acta, 2018, 278, 106-113.	5.2	31
540	N/S co-doped three-dimensional graphene hydrogel for high performance supercapacitor. Electrochimica Acta, 2018, 278, 51-60.	5.2	136
541	Nonchemotherapeutic and Robust Dual-Responsive Nanoagents with On-Demand Bacterial Trapping, Ablation, and Release for Efficient Wound Disinfection. Advanced Functional Materials, 2018, 28, 1705708.	14.9	133
542	Oxygen-Doped Zig-Zag Molecular Ribbons. Angewandte Chemie - International Edition, 2018, 57, 8942-8946.	13.8	35
543	Nitrogen-doped biomass-based hierarchical porous carbon with large mesoporous volume for application in energy storage. Chemical Engineering Journal, 2018, 348, 850-859.	12.7	107
544	Boron-Doped C ₃ N Monolayer as a Promising Metal-Free Oxygen Reduction Reaction Catalyst: A Theoretical Insight. Journal of Physical Chemistry C, 2018, 122, 20312-20322.	3.1	78
545	Tolnaftate-graphene composite-loaded nanoengineered electrospun scaffolds as efficient therapeutic dressing material for regimen of dermatomycosis. Applied Nanoscience (Switzerland), 2018, 8, 1629-1640.	3.1	5

#	ARTICLE	IF	CITATIONS
546	Single pot fabrication of N doped reduced GO (N-rGO) /ZnO-CuO nanocomposite as an efficient electrode material for supercapacitor application. <i>Vacuum</i> , 2018, 157, 145-154.	3.5	39
547	Scanning Photoelectron Spectroscopy: A Modern Tool for the Study of Materials at the Nanoscale. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1800308.	1.8	14
548	Heavily Doped and Highly Conductive Hierarchical Nanoporous Graphene for Electrochemical Hydrogen Production. <i>Angewandte Chemie</i> , 2018, 130, 13486-13491.	2.0	10
549	Heavily Doped and Highly Conductive Hierarchical Nanoporous Graphene for Electrochemical Hydrogen Production. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13302-13307.	13.8	64
550	The Research Development of Quantum Dots in Electrochemical Energy Storage. <i>Small</i> , 2018, 14, e1801479.	10.0	50
551	Applications of Plasma in Energy Conversion and Storage Materials. <i>Advanced Energy Materials</i> , 2018, 8, 1801804.	19.5	77
552	Reduced Graphene Oxide and Its Modifications as Catalyst Supports and Catalyst Layer Modifiers for PEMFC. <i>Materials</i> , 2018, 11, 1405.	2.9	41
553	Biomass-waste derived graphene quantum dots and their applications. <i>Carbon</i> , 2018, 140, 77-99.	10.3	202
554	Microwave N ₂ -Ar plasmas applied for N-graphene post synthesis. <i>Materials Research Express</i> , 2018, 5, 095605.	1.6	8
555	Tailoring the Structure of Carbon Nanomaterials toward High-End Energy Applications. <i>Advanced Materials</i> , 2018, 30, e1802104.	21.0	92
556	Heteroatomic interface engineering in MOF-derived carbon heterostructures with built-in electric-field effects for high performance Al-ion batteries. <i>Energy and Environmental Science</i> , 2018, 11, 3201-3211.	30.8	220
557	Recent advances on metal-free graphene-based catalysts for the production of industrial chemicals. <i>Frontiers of Chemical Science and Engineering</i> , 2018, 12, 855-866.	4.4	27
558	Effect of phonon scattering by substitutional and structural defects on thermal conductivity of 2D graphene. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 295302.	1.8	8
559	Germanium quantum dot/nitrogen-doped graphene nanocomposite for high-performance bulk heterojunction solar cells. <i>RSC Advances</i> , 2018, 8, 21841-21849.	3.6	9
560	Cobalt-entrenched N-, O-, and S-tridoped carbons as efficient multifunctional sustainable catalysts for base-free selective oxidative esterification of alcohols. <i>Green Chemistry</i> , 2018, 20, 3542-3556.	9.0	47
561	BN-Patterning of Metallic Substrates through Metal Coordination of Decoupled Borazines. <i>Chemistry - A European Journal</i> , 2018, 24, 9565-9571.	3.3	9
562	Preparation and Properties of High Performance Multilayered PANi/PMMA/PPG-b-PEG-b-PPG/FGHMDA Nanocomposites via in Situ Polymerization. <i>Polymer-Plastics Technology and Materials</i> , 2019, 58, 282-294.	1.3	2
563	Electronic and magnetic properties of 5d transition metal atoms doped blue phosphorene: First-principles study. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 469, 236-244.	2.3	24

#	ARTICLE	IF	CITATIONS
564	Facile synthesis of boron-doped porous carbon as anode for lithium-ion batteries with excellent electrochemical performance. <i>Ionics</i> , 2019, 25, 2111-2119.	2.4	16
565	Confinement Catalysis with 2D Materials for Energy Conversion. <i>Advanced Materials</i> , 2019, 31, e1901996.	21.0	257
566	Biomass-derived phosphorus-doped carbon materials as efficient metal-free catalysts for selective aerobic oxidation of alcohols. <i>Green Chemistry</i> , 2019, 21, 5274-5283.	9.0	65
567	Nitrogen-doped carbon black supported Pt-M (M=APd, Fe, Ni) alloy catalysts for oxygen reduction reaction in proton exchange membrane fuel cell. <i>Materials Today Energy</i> , 2019, 13, 374-381.	4.7	37
568	Systematic Study of the Electronic, Carbon, and N-Doping Effects of CoMn-Oxide Composites as Bifunctional Oxygen Electrocatalysts. <i>Journal of Physical Chemistry C</i> , 2019, 123, 22130-22138.	3.1	3
569	Manipulation of Heteroatom Substitution on Nitrogen and Phosphorus Co-Doped Graphene as a High Active Catalyst for Hydrogen Evolution Reaction. <i>Journal of Physical Chemistry C</i> , 2019, 123, 22202-22211.	3.1	29
570	A critical review on two-dimensional quantum dots (2D QDs): From synthesis toward applications in energy and optoelectronics. <i>Progress in Quantum Electronics</i> , 2019, 68, 100226.	7.0	85
571	An Ion-Sensitive Field Effect Transistor Using Metal-Coordinated Zeolite-Templated Carbons as a Three-Dimensional Graphene Nanoribbon Network. <i>Frontiers in Materials</i> , 2019, 6, .	2.4	9
572	Tailoring Surface Properties via Functionalized Hydrofluorinated Graphene Compounds. <i>Advanced Materials</i> , 2019, 31, e1903424.	21.0	23
573	Multivariate nanocomposites for electrochemical sensing in the application of food. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 118, 759-769.	11.4	10
574	Graphene Oxide-Silver Nanowire Nanocomposites for Enhanced Sensing of Hg ²⁺ . <i>ACS Applied Nano Materials</i> , 2019, 2, 4842-4851.	5.0	62
575	Silicon doped graphene quantum dots combined with ruthenium(III) ions as a fluorescent probe for turn-on detection of triclosan. <i>New Journal of Chemistry</i> , 2019, 43, 12907-12915.	2.8	18
576	sp ² /sp ³ Framework from Diamond Nanocrystals: A Key Bridge of Carbonaceous Structure to Carbocatalysis. <i>ACS Catalysis</i> , 2019, 9, 7494-7519.	11.2	86
577	Ni and NiO in situ grown on sulfur and phosphorus co-doped graphene as effective bifunctional catalyst for hydrogen evolution. <i>Journal of Electroanalytical Chemistry</i> , 2019, 848, 113306.	3.8	6
578	Modulating charge carrier density and mobility in doped graphene by covalent functionalization. <i>Chemical Communications</i> , 2019, 55, 9999-10002.	4.1	7
579	Promotion of the performance of nitrogen-doped graphene by secondary heteroatoms doping in energy transformation and storage. <i>Ionics</i> , 2019, 25, 3499-3522.	2.4	7
580	Carbon fragments as highly active metal-free catalysts for the oxygen reduction reaction: a mechanistic study. <i>Nanoscale</i> , 2019, 11, 19422-19428.	5.6	20
581	A Large Scalable and Low-Cost Sulfur/Nitrogen Dual-Doped Hard Carbon as the Negative Electrode Material for High-Performance Potassium-Ion Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1901379.	19.5	195

#	ARTICLE	IF	CITATIONS
582	3D carboxyl and hydroxyl co-enriched graphene hydrogels as binder-free electrodes for symmetric supercapacitors. International Journal of Hydrogen Energy, 2019, 44, 23726-23740.	7.1	11
583	Design and optimization of cobalt-encapsulating vertical graphene nano-hills for hydrogen evolution reaction. Journal of Materials Chemistry A, 2019, 7, 17046-17052.	10.3	11
584	Amphiphilic graphene quantum dots as a new class of surfactants. Carbon, 2019, 153, 127-135.	10.3	55
585	Immobilizing palladium nanoparticles on boron-oxygen-functionalized carbon nanospheres towards efficient hydrogen generation from formic acid. Nano Research, 2019, 12, 2966-2970.	10.4	28
586	Boron and Nitrogen Co-Doped Porous Carbons Synthesized from Polybenzoxazines for High-Performance Supercapacitors. Coatings, 2019, 9, 657.	2.6	17
587	Dual Graphiticâ€N Doping in a Sixâ€Membered Câ€Ring of Grapheneâ€Analogous Particles Enables an Efficient Electrocatalyst for the Hydrogen Evolution Reaction. Angewandte Chemie - International Edition, 2019, 58, 16973-16980.	13.8	54
588	Synthesis and Characterization of Oxygen-Embedded Quinoidal Pentacene and Nonacene. Journal of the American Chemical Society, 2019, 141, 2169-2176.	13.7	57
589	Seedâ€Initiated Synthesis and Tunable Doping Graphene for Highâ€Performance Photodetectors. Advanced Optical Materials, 2019, 7, 1901388.	7.3	7
590	Dual Graphiticâ€N Doping in a Sixâ€Membered Câ€Ring of Grapheneâ€Analogous Particles Enables an Efficient Electrocatalyst for the Hydrogen Evolution Reaction. Angewandte Chemie, 2019, 131, 17129-17136.	2.0	7
591	Heteroatom-doped graphene aerogels and carbon-magnetite catalysts for the heterogeneous electro-Fenton degradation of acetaminophen in aqueous solution. Journal of Catalysis, 2019, 378, 68-79.	6.2	33
592	Nitrogenated holey graphene (C2N) surface as highly selective electrochemical sensor for ammonia. Journal of Molecular Liquids, 2019, 296, 111929.	4.9	69
593	Voltage-Follower Coupling Quadrature Oscillator with Embedded Phase-Interpolator in 16nm FinFET. , 2019, , .		0
594	Synthesis and Reactions of Carbon Nanohoop. Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry, 2019, 77, 1147-1158.	0.1	19
595	Basicityâ€Engineered Graphite Fluoride Functionalization and Beyond: An Unusual Reaction between Ultraweak Nucleophile and Ultrastrong CïƒF Bonds. Advanced Functional Materials, 2019, 29, 1906076.	14.9	15
596	Nature of the Synergistic Effect of N and S Co-Doped Graphene for the Enhanced Simultaneous Determination of Toxic Pollutants. ACS Applied Materials & Interfaces, 2019, 11, 44545-44555.	8.0	14
598	Spatially Mapping Work Function Changes and Defect Evolution in the Fluorination of Graphene. , 2019, , .		0
599	Synthesis of Doped Porous 3D Graphene Structures by Chemical Vapor Deposition and Its Applications. Advanced Functional Materials, 2019, 29, 1904457.	14.9	64
600	High Areal Capacitance of Nâ€Doped Graphene Synthesized by Arc Discharge. Advanced Functional Materials, 2019, 29, 1905511.	14.9	75

#	ARTICLE	IF	CITATIONS
601	Oxygen/Fluorine Dual-Doped Porous Carbon Nanopolyhedra Enabled Ultrafast and Highly Stable Potassium Storage. <i>Advanced Functional Materials</i> , 2019, 29, 1906126.	14.9	123
602	Synthesis of graphene materials by electrochemical exfoliation: Recent progress and future potential. <i>Carbon</i> , 2019, 1, 173-199.		213
603	Double <i>ortho</i> -C-H Activation/Annulation of Benzamides with Aryl Alkynes: A Route to Double-Helical Polycyclic Heteroaromatics. <i>Journal of Organic Chemistry</i> , 2019, 84, 15697-15705.	3.2	18
604	Effect of Doping Temperatures and Nitrogen Precursors on the Physicochemical, Optical, and Electrical Conductivity Properties of Nitrogen-Doped Reduced Graphene Oxide. <i>Materials</i> , 2019, 12, 3376.	2.9	75
605	Graphene Nanoarchitectonics: Recent Advances in Graphene-Based Electrocatalysts for Hydrogen Evolution Reaction. <i>Advanced Materials</i> , 2019, 31, e1903415.	21.0	289
606	A novel gold nanosol SERS quantitative analysis method for trace Na ⁺ based on carbon dot catalysis. <i>Food Chemistry</i> , 2019, 289, 531-536.	8.2	18
607	Recent progress in two-dimensional nanomaterials: Synthesis, engineering, and applications. <i>FlatChem</i> , 2019, 18, 100133.	5.6	52
608	Enhanced Electrocatalytic Stability of Platinum Nanoparticles Supported on Sulfur-Doped Carbon using in-situ Solution Plasma. <i>Scientific Reports</i> , 2019, 9, 12704.	3.3	29
609	Sulfur-doped graphene quantum dot-based paper sensor for highly sensitive and selective detection of 4-nitrophenol in contaminated water and wastewater. <i>RSC Advances</i> , 2019, 9, 26588-26597.	3.6	43
610	Self-Standing N-Doped Inverse Opal Carbon via Ultrafast Polymerization of Polydopamine and its High Energy Storage Capability in Li-O ₂ Batteries. <i>ACS Applied Energy Materials</i> , 2019, 2, 7791-7798.	5.1	1
611	High-Strength, Low-Permeable, and Light-Protective Nanocomposite Films Based on a Hybrid Nanopigment and Biodegradable PLA for Food Packaging Applications. <i>ACS Omega</i> , 2019, 4, 14947-14954.	3.5	59
612	One-step synthesis of N-doped carbon dots, and their applications in curcumin sensing, fluorescent inks, and super-resolution nanoscopy. <i>Mikrochimica Acta</i> , 2019, 186, 675.	5.0	48
613	Enhanced catalytic activity of SO _x -incorporated graphene for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 22615-22620.	10.3	4
614	Occurrence of excited state charge separation in a N-doped graphene- <i>perylenediimide</i> hybrid formed <i>via</i> <i>click</i> chemistry. <i>Nanoscale Advances</i> , 2019, 1, 4009-4015.	4.6	4
615	Ultrahigh conductivity of graphene nanoribbons doped with ordered nitrogen. <i>Nanoscale Advances</i> , 2019, 1, 4359-4364.	4.6	4
616	Melatonin alleviates cigarette smoke-induced endothelial cell pyroptosis through inhibiting ROS/NLRP3 axis. <i>Biochemical and Biophysical Research Communications</i> , 2019, 519, 402-408.	2.1	49
617	Leveraging electrochemistry to uncover the role of nitrogen in the biological reactivity of nitrogen-doped graphene. <i>Environmental Science: Nano</i> , 2019, 6, 3525-3538.	4.3	12
618	Nitrogen-Rich Porous Carbon-Stabilized Ni-Co Nanoparticles for the Hydrogenation of Quinolines. <i>ACS Applied Nano Materials</i> , 2019, 2, 6763-6768.	5.0	27

#	ARTICLE	IF	CITATIONS
619	Dependence of plasma power for direct synthesis of nitrogen-doped graphene films on glass by plasma-assisted hot filament chemical vapor deposition. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 18811-18817.	2.2	1
620	P-Superdoped Graphene: Synthesis and Magnetic Properties. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 39062-39067.	8.0	25
621	Characterization of nitrogen doped graphene bilayers synthesized by fast, low temperature microwave plasma-enhanced chemical vapour deposition. <i>Scientific Reports</i> , 2019, 9, 13715.	3.3	33
622	Structural study of functional hierarchical porous carbon synthesized from metal-organic framework template. <i>Materials Today Chemistry</i> , 2019, 14, 100188.	3.5	4
623	Anchoring a Co/2-methylimidazole complex on ion-exchange resin and its transformation to Co/N-doped carbon as an electrocatalyst for the ORR. <i>Catalysis Science and Technology</i> , 2019, 9, 578-582.	4.1	12
624	Plasma Treatment for Nitrogen-Doped 3D Graphene Framework by a Conductive Matrix with Sulfur for High-Performance Li-S Batteries. <i>Small</i> , 2019, 15, e1804347.	10.0	97
625	Tailoring the structural properties of simultaneously reduced and functionalized graphene oxide via alkanolamine(s)/alkyl alkanolamine for energy storage applications. <i>Chemical Engineering Journal</i> , 2019, 363, 120-132.	12.7	30
626	Synthesis of a Double-Helical Naphthotetraindole Core via an Intramolecular Dehydrogenative Homocoupling Reaction. <i>Organic Letters</i> , 2019, 21, 797-801.	4.6	14
627	FeS ₂ microspheres wrapped by N-doped rGO from an Fe-based ionic liquid precursor for rechargeable lithium ion batteries. <i>Sustainable Energy and Fuels</i> , 2019, 3, 701-708.	4.9	21
628	Selective control of molecule charge state on graphene using tip-induced electric field and nitrogen doping. <i>Npj 2D Materials and Applications</i> , 2019, 3, .	7.9	19
629	Efficient electrocatalytic N ₂ reduction on CoO quantum dots. <i>Journal of Materials Chemistry A</i> , 2019, 7, 4389-4394.	10.3	210
630	Properties of Nitrogen/Silicon Doped Vertically Oriented Graphene Produced by ICP CVD Roll-to-Roll Technology. <i>Coatings</i> , 2019, 9, 60.	2.6	7
631	Highly Surface-Wrinkled and N-Doped CNTs Anchored on Metal Wire: A Novel Fiber-Shaped Cathode toward High-Performance Flexible Li- ⁺ CO ₂ Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1808117.	14.9	75
632	Coupled cluster investigation of the interaction of beryllium, magnesium, and calcium with pyridine: Implications for the adsorption on nitrogen-doped graphene. <i>Computational and Theoretical Chemistry</i> , 2019, 1150, 57-62.	2.5	12
633	Hydrothermal synthesis of manganese oxide and nitrogen doped graphene (NG-MnO ₂) nanohybrid for visible light degradation of methyl orange dye. <i>Molecular Physics</i> , 2019, 117, 2477-2486.	1.7	6
634	Nitrogen-doped graphene encapsulated cobalt iron sulfide as an advanced electrode for high-performance asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2019, 7, 3941-3952.	10.3	74
635	First-principle investigations of nitrogen-, boron-, phosphorus-doped graphite electrodes for vanadium redox flow batteries. <i>Electrochimica Acta</i> , 2019, 300, 389-395.	5.2	46
636	Strong Enhancement of the Chemiluminescence of Hydrogen Sulfite-Oxidant Systems in the Presence of N,S-Doped Graphene Quantum Dots, and Its Application to the Determination of Folic Acid in Spinach and Kiwifruit Samples. <i>Food Analytical Methods</i> , 2019, 12, 869-876.	2.6	2

#	ARTICLE	IF	CITATIONS
637	Opening the Band Gap of Graphene via Fluorination for High-Performance Dual-Mode Photodetector Application. ACS Applied Materials & Interfaces, 2019, 11, 21702-21710.	8.0	28
638	Performance evaluation of B-doped graphene prepared via two different methods in symmetric supercapacitor using various electrolytes. Applied Surface Science, 2019, 491, 560-569.	6.1	50
639	Hydrothermal synthesis of nitrogen, sulfur co-doped graphene and its high performance in supercapacitor and oxygen reduction reaction. Microporous and Mesoporous Materials, 2019, 290, 109556.	4.4	44
640	Degradation of carbon tetrachloride using ultrasound-assisted nanoscaled zero-valent iron particles@sulfur/nitrogen dual-doped reduced graphene oxide composite: Kinetics, activation energy, effects of reaction conditions and degradation mechanism. Applied Organometallic Chemistry, 2019, 33, e5014.	3.5	7
641	Synergistic effect of metal-organic framework-derived boron and nitrogen heteroatom-doped three-dimensional porous carbons for precious-metal-free catalytic reduction of nitroarenes. Applied Catalysis B: Environmental, 2019, 257, 117888.	20.2	96
642	Controllable preparation of nitrogen-doped graphitized carbon from molecular precursor as non-metal oxygen evolution reaction electrocatalyst. Applied Surface Science, 2019, 491, 723-734.	6.1	24
643	Anticancer Photodynamic Therapy Properties of Sulfur-Doped Graphene Quantum Dot and Methylene Blue Preparations in MCF-7 Breast Cancer Cell Culture. Photochemistry and Photobiology, 2019, 95, 1473-1481.	2.5	35
644	Controlling synthesis of nitrogen-doped hierarchical porous graphene-like carbon with coral flower structure for high-performance supercapacitors. Ionics, 2019, 25, 5429-5443.	2.4	6
645	Electron distribution tuning of fluorine-doped carbon for ammonia electrosynthesis. Journal of Materials Chemistry A, 2019, 7, 16979-16983.	10.3	46
646	Polycyclic aromatic hydrocarbons in the graphene era. Science China Chemistry, 2019, 62, 1099-1144.	8.2	142
647	Electronically Nonadiabatic Structural Transformations Promoted by Electron Beams. Advanced Functional Materials, 2019, 29, 1901901.	14.9	12
648	Atomic matching catalysis to realize a highly selective and sensitive biomimetic uric acid sensor. Biosensors and Bioelectronics, 2019, 141, 111421.	10.1	28
649	Nanocomposite of Nitrogen-Doped Graphene/Polyaniline for Enhanced Ammonia Gas Detection. Advanced Materials Interfaces, 2019, 6, 1900552.	3.7	32
650	Stimulated Electrocatalytic Hydrogen Evolution Activity of MOF-Derived MoS ₂ Basal Domains via Charge Injection through Surface Functionalization and Heteroatom Doping. Advanced Science, 2019, 6, 1900140.	11.2	73
651	Enhancement of Photocatalytic Activity under Visible Light Irradiation via the AgI@TCNQ Core-Shell Structure. Materials, 2019, 12, 1679.	2.9	8
652	Pd-Fe dual-metal nanoparticles confined in the interface of carbon nanotubes/N-doped carbon for excellent catalytic performance. Applied Surface Science, 2019, 489, 477-484.	6.1	70
653	Thermal conductivity of two-dimensional BC ₃ : a comparative study with two-dimensional C ₃ N. Physical Chemistry Chemical Physics, 2019, 21, 12977-12985.	2.8	30
654	N, P, S tri-doped hollow carbon nanosphere as a high-efficient bifunctional oxygen electrocatalyst for rechargeable Zn-air batteries. Applied Surface Science, 2019, 490, 47-55.	6.1	44

#	ARTICLE	IF	CITATIONS
655	Preparation, characterization, and properties of silanized graphene oxide reinforced biobased benzoxazine-bismaleimide resin composites. <i>Journal of Adhesion Science and Technology</i> , 2019, 33, 1974-1988.	2.6	15
656	Nitrogen and iodine dual-doped 3D porous graphene as a bi-functional cathode catalyst for Li-O2 batteries. <i>Electrochimica Acta</i> , 2019, 318, 354-361.	5.2	20
657	Nano-sized architectural design of multi-activity graphene oxide (GO) by chemical post-decoration for efficient uranium(VI) extraction. <i>Journal of Hazardous Materials</i> , 2019, 375, 320-329.	12.4	53
658	Computational quest of adsorbents based on doped graphene nanosheets for phosgene uptake, and analysis of the co-adsorption phenomena. <i>Synthetic Metals</i> , 2019, 252, 142-150.	3.9	24
659	Sensitive Electrochemical Detection of Caffeic Acid in Wine Based on Fluorine-Doped Graphene Oxide. <i>Sensors</i> , 2019, 19, 1604.	3.8	48
660	Triple Helical Ir(ppy) ₃ Phenylene Cage Prepared by Diol-Mediated Benzannulation: Synthesis, Resolution, Absolute Stereochemistry and Photophysical Properties. <i>Chemistry - A European Journal</i> , 2019, 25, 8719-8724.	3.3	6
661	Computational Screening of Electrocatalytic Activity of Transition Metal-Doped CdS Nanotubes for Water Splitting. <i>Journal of Physical Chemistry C</i> , 2019, 123, 13419-13427.	3.1	10
662	High-efficiency layered sulfur-doped reduced graphene oxide and carbon nanotube composite counter electrode for quantum dot sensitized solar cells. <i>Journal of Power Sources</i> , 2019, 430, 95-103.	7.8	30
663	Top-down synthesis of S-doped graphene nanosheets by electrochemical exfoliation of graphite: Metal-free bifunctional catalysts for oxygen reduction and evolution reactions. <i>Electrochimica Acta</i> , 2019, 313, 1-9.	5.2	54
664	Alcoholic hydroxyl functionalized partially reduced graphene oxides for symmetric supercapacitors with long-term cycle stability. <i>Electrochimica Acta</i> , 2019, 313, 59-69.	5.2	46
665	Sulfur-Doped Anatase TiO ₂ as an Anode for High-Performance Sodium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2019, 2, 3791-3797.	5.1	46
666	Advancement in science and technology of carbon dot-polymer hybrid composites: a review. <i>Functional Composites and Structures</i> , 2019, 1, 022001.	3.4	99
667	Nitrogen and fluorine co-doped holey graphene hydrogel as a binder-free electrode material for flexible solid-state supercapacitors. <i>Sustainable Energy and Fuels</i> , 2019, 3, 2237-2245.	4.9	55
668	Boosting ORR/OER Activity of Graphdiyne by Simple Heteroatom Doping. <i>Small Methods</i> , 2019, 3, 1800550.	8.6	149
669	Ultrathin Graphene Intercalation in PEDOT:PSS/Colorless Polyimide-Based Transparent Electrodes for Enhancement of Optoelectronic Performance and Operational Stability of Organic Devices. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 21069-21077.	8.0	18
670	Approaching high-performance potassium-ion batteries via advanced design strategies and engineering. <i>Science Advances</i> , 2019, 5, eaav7412.	10.3	790
671	COF-Derived N,P Co-Doped Carbon as a Metal-Free Catalyst for Highly Efficient Oxygen Reduction Reaction. <i>ChemNanoMat</i> , 2019, 5, 957-963.	2.8	26
672	Direct transformation of lignin into fluorescence-switchable graphene quantum dots and their application in ultrasensitive profiling of a physiological oxidant. <i>Green Chemistry</i> , 2019, 21, 3343-3352.	9.0	87

#	ARTICLE	IF	CITATIONS
673	Nitrogen and sulfur codoped graphene aerogels as absorbents and visible light-active photocatalysts for environmental remediation applications. <i>Environmental Pollution</i> , 2019, 251, 344-353.	7.5	31
674	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.	5.2	73
675	Modeling of substitutionally modified graphene structures to prevent the shuttle mechanism in lithium-sulfur batteries. <i>Electrochimica Acta</i> , 2019, 309, 402-414.	5.2	21
676	Threshold Voltage Modulation of a Graphene/ZnO Barristor Using a Polymer Doping Process. <i>Advanced Electronic Materials</i> , 2019, 5, 1800805.	5.1	17
677	Metal chalcogenide based photocatalysts decorated with heteroatom doped reduced graphene oxide for photocatalytic and photoelectrochemical hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 18836-18847.	7.1	31
678	Single Mo atom realized enhanced CO ₂ electro-reduction into formate on N-doped graphene. <i>Nano Energy</i> , 2019, 61, 428-434.	16.0	106
679	Tailoring Nitrogen-Doped Carbons as Hosts for Single-Atom Catalysts. <i>ChemCatChem</i> , 2019, 11, 2812-2820.	3.7	40
680	Synthesis and patterning of graphene: Strategies and prospects. <i>Applied Physics Reviews</i> , 2019, 6, .	11.3	51
681	Nitrogen and Phosphorus Codoped Vertical Graphene/Carbon Cloth as a Binder-Free Anode for Flexible Advanced Potassium Ion Full Batteries. <i>Small</i> , 2019, 15, e1901285.	10.0	115
682	Photocatalytic recovery of H ₂ from H ₂ S containing wastewater: Surface and interface control of photo-excited in Cu ₂ S@TiO ₂ core-shell nanostructures. <i>Applied Catalysis B: Environmental</i> , 2019, 254, 174-185.	20.2	209
683	B-doped C ₃ N monolayer: a robust catalyst for oxidation of carbon monoxide. <i>Theoretical Chemistry Accounts</i> , 2019, 138, 1.	1.4	20
684	Transition metal-embedded two-dimensional C ₃ N as a highly active electrocatalyst for oxygen evolution and reduction reactions. <i>Journal of Materials Chemistry A</i> , 2019, 7, 12050-12059.	10.3	123
685	A review on graphene-based nanocomposites for electrochemical and fluorescent biosensors. <i>RSC Advances</i> , 2019, 9, 8778-8881.	3.6	546
686	Metal-free N, S co-doped graphene for efficient and durable nitrogen reduction reaction. <i>Journal of Materials Science</i> , 2019, 54, 9088-9097.	3.7	79
687	(Photo)electrocatalysis of molecular oxygen reduction by S-doped graphene decorated with a star-shaped oligothiophene. <i>Nanoscale</i> , 2019, 11, 7335-7346.	5.6	12
688	Doping MoS ₂ monolayer with nonmetal atoms to tune its electronic and magnetic properties, and chemical activity: a computational study. <i>New Journal of Chemistry</i> , 2019, 43, 5766-5772.	2.8	9
689	Experimental and theoretical demonstration of the relative effects of O-doping and N-doping in porous carbons for CO ₂ capture. <i>Applied Surface Science</i> , 2019, 481, 1139-1147.	6.1	67
690	Self-assembly of 3D MnO ₂ /N-doped graphene hybrid aerogel for catalytic degradation of water pollutants: Structure-dependent activity. <i>Chemical Engineering Journal</i> , 2019, 369, 1049-1058.	12.7	93

#	ARTICLE	IF	CITATIONS
691	Unveiling the Role of Heteroatom Gradient-Distributed Carbon Fibers for Vanadium Redox Flow Batteries with Long Service Life. ACS Applied Materials & Interfaces, 2019, 11, 11451-11458.	8.0	18
692	DFT study of CO adsorption on nitrogen/boron doped-graphene for sensor applications. Journal of Molecular Modeling, 2019, 25, 91.	1.8	21
693	One-step synthesis of boron-doped graphene quantum dots for fluorescent sensors and biosensor. Talanta, 2019, 199, 581-589.	5.5	112
694	Rh(III)-Catalyzed [5 + 2] Oxidative Annulation of Cyclic Arylguanidines and Alkynes to 1,3-Benzodiazepines. A Striking Mechanistic Proposal from DFT. Organic Letters, 2019, 21, 1779-1783.	4.6	20
697	Mesoporous layered spinel zinc manganese oxide nanocrystals stabilized nitrogen-doped graphene as an effective catalyst for oxygen reduction reaction. Journal of Colloid and Interface Science, 2019, 545, 43-53.	9.4	18
698	Undiscovered Mechanism for Pyrogenic Carbonaceous Matter-Mediated Abiotic Transformation of Azo Dyes by Sulfide. Environmental Science & Technology, 2019, 53, 4397-4405.	10.0	42
699	Layered Thiazolo[5,4- <i>d</i>] Thiazole-Linked Conjugated Microporous Polymers with Heteroatom Adoption for Efficient Photocatalysis Application. ACS Applied Materials & Interfaces, 2019, 11, 15861-15868.	8.0	57
700	Oxygen- δ -Doped Porous Carbon Nanosheet for Efficient N_2 Fixation to NH_3 at Ambient Conditions. ChemistrySelect, 2019, 4, 3547-3550.	1.5	21
701	Analysis of pseudo jahn-teller distortion based on natural bond orbital theory: Case study for silicene. Journal of Computational Chemistry, 2019, 40, 1488-1495.	3.3	14
702	Studies of hydrogen sulfide and ammonia adsorption on P- and Si-doped graphene: density functional theory calculations. Journal of Molecular Modeling, 2019, 25, 94.	1.8	38
703	Nanographene composite ion exchanger properties and applications. , 2019, , 629-649.		2
704	A nonradical reaction-dominated phenol degradation with peroxydisulfate catalyzed by nitrogen-doped graphene. Science of the Total Environment, 2019, 667, 287-296.	8.0	60
705	Nitrogen-Doped Graphene on Copper: Edge-Guided Doping Process and Doping-Induced Variation of Local Work Function. Journal of Physical Chemistry C, 2019, 123, 8802-8812.	3.1	7
706	High-Performance Supercapacitor Electrode of HNO ₃ Doped Polyaniline/Reduced Graphene Oxide Nanocomposites. Journal of Electronic Materials, 2019, 48, 3122-3130.	2.2	7
707	Direct growth of nitrogen-doped graphene films on glass by plasma-assisted hot filament CVD for enhanced electricity generation. Journal of Materials Chemistry A, 2019, 7, 12038-12049.	10.3	36
708	Chemically doped graphene based ternary field effect transistors. Japanese Journal of Applied Physics, 2019, 58, SBBH04.	1.5	8
709	Sequential C-H Borylation and N-De-methylation of 1,1'-Biphenylamines: Alternative Route to Polycyclic BN-Heteroarenes. Angewandte Chemie - International Edition, 2019, 58, 7361-7365.	13.8	17
710	On-surface synthesis of nitrogen-doped nanographenes with 5-7 membered rings. Chemical Communications, 2019, 55, 4731-4734.	4.1	23

#	ARTICLE	IF	CITATIONS
712	Sequential C-H Borylation and N-DeMethylation of 1,1'-Biphenylamines: Alternative Route to Polycyclic BN-Heteroarenes. <i>Angewandte Chemie</i> , 2019, 131, 7439-7443.	2.0	2
713	Heteroatom-Enhanced Metal-Free Catalytic Performance of Carbocatalysts for Organic Transformations. <i>ChemCatChem</i> , 2019, 11, 3730-3744.	3.7	37
714	An ultrahigh electron-donating quaternary-N-doped reduced graphene oxide@carbon nanotube framework: a covalently coupled catalyst support for enzymatic bioelectrodes. <i>Journal of Materials Chemistry A</i> , 2019, 7, 11077-11085.	10.3	40
715	BN-Functionalized Benzotrithiophene-Based Azaborines: Synthesis, Structures, and Anion Binding Properties. <i>Inorganic Chemistry</i> , 2019, 58, 3591-3595.	4.0	18
716	Sulfur-doped graphene for efficient electrocatalytic N ₂ -to-NH ₃ fixation. <i>Chemical Communications</i> , 2019, 55, 3371-3374.	4.1	152
717	Millisecond synthesis of CoS nanoparticles for highly efficient overall water splitting. <i>Nano Research</i> , 2019, 12, 2259-2267.	10.4	85
718	Potential of graphene for shape-directing agent free growth of highly oriented silver particles and their application in surface enhanced Raman scattering. <i>Journal of Alloys and Compounds</i> , 2019, 787, 893-902.	5.5	3
719	Nonmainstream Out-of-Plane Fluoro- and Amino-Cofunctionalized Graphene for a Striking Electrocatalyst: Programming Substitutive/Reductive Defluorination toward Graphite Fluoride. <i>Advanced Materials Interfaces</i> , 2019, 6, 1801699.	3.7	6
720	Chemical Approaches to Carbon-Based Metal-Free Catalysts. <i>Advanced Materials</i> , 2019, 31, e1804863.	21.0	90
721	Sulfur-doped graphene/transition metal dichalcogenide heterostructured hybrids with electrocatalytic activity toward the hydrogen evolution reaction. <i>Nanoscale Advances</i> , 2019, 1, 1489-1496.	4.6	36
722	A confinement strategy to prepare N-doped reduced graphene oxide foams with desired monolithic structures for supercapacitors. <i>Nanoscale</i> , 2019, 11, 4362-4368.	5.6	25
723	Graphene-derived nanomaterials as recognition elements for electrochemical determination of heavy metal ions: a review. <i>Mikrochimica Acta</i> , 2019, 186, 171.	5.0	76
724	Enhanced Lewis acid-base adducts in doped stanene: Sensing and photocatalysis. <i>Applied Surface Science</i> , 2019, 478, 946-958.	6.1	10
725	Functionalized Graphene Nanocomposites in Air Filtration Applications. , 2019, , 65-89.		2
726	2D materials for 1D electrochemical energy storage devices. <i>Energy Storage Materials</i> , 2019, 19, 102-123.	18.0	71
727	Bifunctional oxygen electrocatalyst derived from photochlorinated graphene for rechargeable solid-state Zn-air battery. <i>Journal of Colloid and Interface Science</i> , 2019, 543, 84-95.	9.4	25
728	One pot solvothermal synthesis of novel solid state N-Doped TiO ₂ /n-Gr for efficient energy storage devices. <i>Vacuum</i> , 2019, 164, 88-97.	3.5	11
729	Tunable Electronic Properties of Nitrogen and Sulfur Doped Graphene: Density Functional Theory Approach. <i>Nanomaterials</i> , 2019, 9, 268.	4.1	39

#	ARTICLE	IF	CITATIONS
730	Enhancing thermal oxidation and fire resistance of reduced graphene oxide by phosphorus and nitrogen co-doping: Mechanism and kinetic analysis. Carbon, 2019, 146, 650-659.	10.3	90
731	Sulfur-regulated the binding configurations of nitrogen in three-dimensional graphene to improve lithium storage kinetics. Journal of Alloys and Compounds, 2019, 786, 1013-1020.	5.5	16
732	Low pressure chemical vapor deposition synthesis of large area hetero-doped mono- and few- layer graphene with nitrogen and oxygen species. Materials Research Express, 2019, 6, 055604.	1.6	7
734	Recent advances in carbon quantum dot (CQD)-based two dimensional materials for photocatalytic applications. Catalysis Science and Technology, 2019, 9, 5882-5905.	4.1	70
735	A carbon dot based theranostic platform for dual-modal imaging and free radical scavenging. Nanoscale, 2019, 11, 20917-20931.	5.6	36
736	Recent advances in two-dimensional materials and their nanocomposites in sustainable energy conversion applications. Nanoscale, 2019, 11, 21622-21678.	5.6	201
737	Tuning the nanostructure of nitrogen-doped graphene laminates for forward osmosis desalination. Nanoscale, 2019, 11, 22025-22032.	5.6	13
738	Designing of Ultrafine PdNPs Immobilized Pyridinicâ€‹Nâ€‹Doped Carbon and Evaluation of its Catalytic Potential for Konevenagel Condensation, Synthesis of 4â€‹Hâ€‹pyran Derivatives and Nitroreduction. ChemistrySelect, 2019, 4, 12689-12700.	1.5	12
739	Boosting the hydrogen evolution activity of a Coâ€‹Nâ€‹C electrocatalyst by codoping with Al. RSC Advances, 2019, 9, 33997-34003.	3.6	4
740	Synthesis of N-doped carbon dots and application in vanillin detection based on collisional quenching. RSC Advances, 2019, 9, 40222-40227.	3.6	18
741	Carbon Nanomaterials for Targeted Cancer Therapy Drugs: A Critical Review. Chemical Record, 2019, 19, 502-522.	5.8	63
742	Facile synthesis of 3D sulfur/nitrogen co-doped graphene derived from graphene oxide hydrogel and the simultaneous determination of hydroquinone and catechol. Sensors and Actuators B: Chemical, 2019, 279, 170-176.	7.8	85
743	The Role of Graphene and Other 2D Materials in Solar Photovoltaics. Advanced Materials, 2019, 31, e1802722.	21.0	268
744	Heteroatom-doped graphene and its application as a counter electrode in dye-sensitized solar cells. International Journal of Energy Research, 2019, 43, 1702-1734.	4.5	22
745	Fabrication of conductive and printable nano carbon ink for wearable electronic and heating fabrics. Journal of Colloid and Interface Science, 2019, 539, 95-106.	9.4	32
746	DFT study of the effects of Al P pair doping on the structural and electronic properties of stanene nanosheets. Physica E: Low-Dimensional Systems and Nanostructures, 2019, 108, 34-43.	2.7	46
747	Low-damage nitrogen incorporation in graphene films by nitrogen plasma treatment: Effect of airborne contaminants. Carbon, 2019, 144, 532-539.	10.3	18
748	Dopamine sensing by boron and nitrogen co-doped single-walled carbon nanotubes: A first-principles study. Applied Surface Science, 2019, 473, 59-64.	6.1	28

#	ARTICLE	IF	CITATIONS
749	Electrocatalytic and energy storage performance of bio-derived sulphur-nitrogen-doped carbon. <i>Journal of Electroanalytical Chemistry</i> , 2019, 833, 357-369.	3.8	50
750	Catalysis with Two-Dimensional Materials Confining Single Atoms: Concept, Design, and Applications. <i>Chemical Reviews</i> , 2019, 119, 1806-1854.	47.7	745
751	Synthesis of Pd-Doped and NiCo-Hybridized Graphene-Based Fibers for Flexible Asymmetrical Solid-State Micro-Energy Storage Device. <i>Small</i> , 2019, 15, e1803469.	10.0	39
752	Fluorination of graphene oxide at ambient conditions. <i>Diamond and Related Materials</i> , 2019, 91, 107-111.	3.9	3
753	Catalytic Upgrading of Biomass Model Compounds: Novel Approaches and Lessons Learnt from Traditional Hydrodeoxygenation – a Review. <i>ChemCatChem</i> , 2019, 11, 924-960.	3.7	167
754	Recent advances in emerging single atom confined two-dimensional materials for water splitting applications. <i>Materials Today Energy</i> , 2019, 11, 1-23.	4.7	189
755	Ginkgo leaf-based synthesis of nitrogen-doped carbon quantum dots for highly sensitive detection of salazosulfapyridine in mouse plasma. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019, 164, 514-519.	2.8	83
756	A proposal based on quantum phenomena for the ORR mechanism on nitrogen-doped carbon-based electrocatalysts. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 12374-12380.	7.1	23
757	Synthesis of sulfur-rich nitrogen dots from a single source precursor and its application in dual-mode sensing. <i>Talanta</i> , 2019, 195, 550-557.	5.5	9
758	Rh ^{III} -Catalyzed Straightforward Synthesis of Benzophenanthroline and Benzophenanthrolinone Derivatives using Anthranils. <i>Chemistry - A European Journal</i> , 2019, 25, 3000-3004.	3.3	28
759	Carbon Nanomaterials for Energy Storage Devices. , 2019, , 1-29.		2
760	Facile fabrication of Pt-Ni alloy nanoparticles supported on reduced graphene oxide as excellent electrocatalysts for hydrogen evolution reaction in alkaline environment. <i>Journal of Nanoparticle Research</i> , 2019, 21, 1.	1.9	35
761	Surface modulated hierarchical graphene film via sulfur and phosphorus dual-doping for high performance flexible supercapacitors. <i>Chinese Chemical Letters</i> , 2019, 30, 1121-1125.	9.0	40
762	Phosphorus incorporation into graphitic material via hot pressing of graphite oxide and triphenylphosphine. <i>Synthetic Metals</i> , 2019, 248, 53-58.	3.9	15
763	Hard carbons for sodium-ion batteries: Structure, analysis, sustainability, and electrochemistry. <i>Materials Today</i> , 2019, 23, 87-104.	14.2	537
764	Single-step growth of graphene and graphene-based nanostructures by plasma-enhanced chemical vapor deposition. <i>Nanotechnology</i> , 2019, 30, 162001.	2.6	37
765	Efficient Metal-Free Electrocatalysts from N-Doped Carbon Nanomaterials: Mono-Doping and Co-Doping. <i>Advanced Materials</i> , 2019, 31, e1805121.	21.0	329
766	Exploring the Molecular Mechanisms of Extracellular Electron Transfer for Harnessing Reducing Power in METs. , 2019, , 261-293.		3

#	ARTICLE	IF	CITATIONS
767	Nitrogen-doped nanocarbons (NNCs): Current status and future opportunities. Current Opinion in Green and Sustainable Chemistry, 2019, 15, 67-76.	5.9	21
768	Doped-Graphene Modified Electrochemical Sensors. , 2019, , 67-87.		2
769	Carbon-Based Materials in Microbial Fuel Cells. , 2019, , 49-74.		8
770	A novel, efficient electrochemical sensor for the detection of isoniazid based on the B/N doped mesoporous carbon modified electrode. Sensors and Actuators B: Chemical, 2019, 283, 613-620.	7.8	36
771	Sâ€Doped Carbon Nanospheres: An Efficient Electrocatalyst toward Artificial N₂ Fixation to NH₃. Small Methods, 2019, 3, 1800251.	8.6	165
772	A Biomassâ€Derived Carbonâ€Based Electrocatalyst for Efficient N₂ Fixation to NH₃ under Ambient Conditions. Chemistry - A European Journal, 2019, 25, 1914-1917.	3.3	68
773	Guiding Principles for Designing Highly Efficient Metalâ€Free Carbon Catalysts. Advanced Materials, 2019, 31, e1805252.	21.0	110
774	Synthesis of B doped graphene/polyaniline hybrids for high-performance supercapacitor application. Journal of Materials Science: Materials in Electronics, 2019, 30, 2316-2326.	2.2	17
775	Boronâ€Doped Graphene as Efficient Electrocatalyst for Zincâ€Bromine Redox Flow Batteries. ChemElectroChem, 2019, 6, 1107-1114.	3.4	31
776	Alcohol Oxidation and Hydrogen Evolution. Interface Science and Technology, 2019, 27, 253-301.	3.3	16
777	Synthesis and Surface Modification. Interface Science and Technology, 2019, 27, 67-108.	3.3	2
778	Polymer Composites with Functionalized Carbon Nanotube and Graphene. , 2019, , 211-248.		16
779	Edge-carboxylated graphene nanoplatelets as efficient electrode materials for electrochemical supercapacitors. Carbon, 2019, 142, 89-98.	10.3	49
780	New insights into the role of nitrogen-bonding configurations in enhancing the photocatalytic activity of nitrogen-doped graphene aerogels. Journal of Colloid and Interface Science, 2019, 534, 574-585.	9.4	38
781	Recent progress on graphene-analogous 2D nanomaterials: Properties, modeling and applications. Progress in Materials Science, 2019, 100, 99-169.	32.8	235
782	Doping of alkali metals in carbon frameworks for enhancing CO2 capture: A theoretical study. Fuel, 2019, 236, 942-948.	6.4	39
783	Mutual modulation of F-distribution and N-configuration in F and N dual-functionalized graphene. Applied Surface Science, 2019, 465, 880-887.	6.1	2
784	3D Grapheneâ€Based Macrostructures for Water Treatment. Advanced Materials, 2020, 32, e1806843.	21.0	158

#	ARTICLE	IF	CITATIONS
785	Laser-driven direct synthesis of carbon nanodots and application as sensitizers for visible-light photocatalysis. Carbon, 2020, 156, 453-462.	10.3	25
786	Lightweight excellent microwave absorption properties based on sulfur doped graphene. Journal of Saudi Chemical Society, 2020, 24, 9-19.	5.2	13
787	2D Electrocatalysts for Converting Earthâ€Abundant Simple Molecules into Valueâ€Added Commodity Chemicals: Recent Progress and Perspectives. Advanced Materials, 2020, 32, e1904870.	21.0	76
788	Electric-field-controlled magnetization switching in multiferroic heterostructures containing interactive magnetic nanoislands. Journal Physics D: Applied Physics, 2020, 53, 024002.	2.8	6
789	Nitrogenâ€Doped Carbon Nanomaterials: Synthesis, Characteristics and Applications. Chemistry - an Asian Journal, 2020, 15, 2282-2293.	3.3	100
790	Hierarchical nanocomposite that coupled nitrogen-doped graphene with aligned PANI cores arrays for high-performance supercapacitor. Electrochimica Acta, 2020, 330, 135236.	5.2	49
791	DFT study of adsorption of ions on doped and defective graphene. Materials Today Communications, 2020, 22, 100714.	1.9	17
792	Sulfate Surfactant Assisted Approach to Fabricate Sulphurâ€Doped Supported Nanodiamond Catalyst on Carbon Nanotube with Unprecedented Catalysis for Ethylbenzene Dehydrogenation. ChemCatChem, 2020, 12, 342-349.	3.7	9
793	Waste paper derived three-dimensional carbon aerogel integrated with ceria/nitrogen-doped reduced graphene oxide as freestanding anode for high performance and durable microbial fuel cells. Bioprocess and Biosystems Engineering, 2020, 43, 97-109.	3.4	34
794	Interfacial separation of concentrated dye mixtures from solution with environmentally compatible nitrogenous-silane nanoparticles modified with Helianthus annuus husk extract. Journal of Colloid and Interface Science, 2020, 560, 825-837.	9.4	6
795	Graphene oxide in aqueous and nonaqueous media: Dispersion behaviour and solution chemistry. Carbon, 2020, 158, 568-579.	10.3	50
796	Nitrogen, sulfur and oxygen co-doped carbon-armored Co/Co9S8 rods (Co/Co9S8@N-S-O-C) as efficient activator of peroxymonosulfate for sulfamethoxazole degradation. Journal of Hazardous Materials, 2020, 387, 121669.	12.4	55
797	Molecular insight into adsorption affinities of Carmustine drug on boron and nitrogen doped functionalized single-walled carbon nanotubes using density functional theory including dispersion correction calculations and molecular dynamics simulation. Journal of Biomolecular Structure and Dynamics, 2020, 38, 4817-4826.	3.5	2
798	Graphene-cobalt based oxygen electrocatalysts. Catalysis Today, 2020, 358, 184-195.	4.4	6
799	A monitorable and renewable pollution filter based on graphene nanoplatelets. Nanotechnology, 2020, 31, 075701.	2.6	11
800	The duet of surface and radical-based carbocatalysis for oxidative destructions of aqueous contaminants over built-in nanotubes of graphite. Journal of Hazardous Materials, 2020, 384, 121486.	12.4	29
801	Graphene-Based Heterogeneous Catalysis: Role of Graphene. Catalysts, 2020, 10, 53.	3.5	83
802	From Molecular Precursors to Nanoparticlesâ€Tailoring the Adsorption Properties of Porous Carbon Materials by Controlled Chemical Functionalization. Advanced Functional Materials, 2020, 30, 1908371.	14.9	57

#	ARTICLE	IF	CITATIONS
803	Recent Advances in Two-dimensional Materials for Electrochemical Energy Storage and Conversion. Chemical Research in Chinese Universities, 2020, 36, 10-23.	2.6	41
804	Oâ€Doped Nanographenes: A Pyrano/Pyrylium Route Towards Semiconducting Cationic Mixedâ€Valence Complexes. Angewandte Chemie, 2020, 132, 4135-4143.	2.0	20
805	Point-defect-optimized electron distribution for enhanced electrocatalysis: Towards the perfection of the imperfections. Nano Today, 2020, 31, 100833.	11.9	52
806	Synthesis of Benzoxazine-Based N-Doped Mesoporous Carbons as High-Performance Electrode Materials. Applied Sciences (Switzerland), 2020, 10, 422.	2.5	13
807	N,S co-doped hierarchically porous carbon materials for efficient metal-free catalysis. Green Chemistry, 2020, 22, 742-752.	9.0	55
808	Phototherapy with layered materials derived quantum dots. Nanoscale, 2020, 12, 43-57.	5.6	54
809	A comprehensive review of Cr, Ti-based anode materials for Li-ion batteries. Ionics, 2020, 26, 1081-1099.	2.4	9
810	Exploring catalytic performance of boron-doped graphene electrode for electrochemical degradation of acetaminophen. Applied Surface Science, 2020, 508, 145111.	6.1	37
811	Nitrogen, Phosphorus Co-doped Carbon Obtained from Amino Acid Based Resin Xerogel as Efficient Electrode for Supercapacitor. ACS Applied Energy Materials, 2020, 3, 957-969.	5.1	54
812	Metal-Free Synthesis of Boron-Doped Graphene Glass by Hot-Filament Chemical Vapor Deposition for Wave Energy Harvesting. ACS Applied Materials & Interfaces, 2020, 12, 2805-2815.	8.0	13
813	A 6Î€ Azaelectrocyclization Strategy towards the 1,5,9â€Triazacoronenes. Advanced Synthesis and Catalysis, 2020, 362, 1651-1656.	4.3	14
814	Oâ€Doped Nanographenes: A Pyrano/Pyrylium Route Towards Semiconducting Cationic Mixedâ€Valence Complexes. Angewandte Chemie - International Edition, 2020, 59, 4106-4114.	13.8	33
815	Carbon nanomaterials. , 2020, , 55-84.		5
816	Bionanosensor based on N-doped graphene quantum dots coupled with CoOOH nanosheets and their application for inÂvivo analysis of ascorbic acid. Analytica Chimica Acta, 2020, 1100, 191-199.	5.4	18
817	Recent Advances in Photoelectrochemical Sensing: From Engineered Photoactive Materials to Sensing Devices and Detection Modes. Analytical Chemistry, 2020, 92, 363-377.	6.5	614
818	Facile one-pot synthesis of water-dispersible phosphate functionalized reduced graphene oxide toward high-performance energy storage devices. Chemical Communications, 2020, 56, 1373-1376.	4.1	37
819	Anchoring nanosized Pd on three-dimensional boron- and nitrogen-codoped graphene aerogels as a highly active multifunctional electrocatalyst for formic acid and methanol oxidation reactions. Inorganic Chemistry Frontiers, 2020, 7, 700-708.	6.0	46
820	Complete catalytic cycle of NO decomposition on a silicon-doped nitrogen-coordinated graphene: Mechanistic insight from a DFT study. Applied Surface Science, 2020, 508, 145255.	6.1	12

#	ARTICLE	IF	CITATIONS
821	Bottom-Up Synthesis of Nitrogen-Doped Polycyclic Aromatic Hydrocarbons. <i>Synlett</i> , 2020, 31, 211-222.	1.8	13
822	N, S co-doped biomass derived carbon with sheet-like microstructures for supercapacitors. <i>Electrochimica Acta</i> , 2020, 331, 135348.	5.2	97
823	Magnetic properties of an Ising ladder-like graphene nanoribbon by using Monte Carlo method. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 539, 122932.	2.6	49
824	All graphene electrode for high-performance asymmetric supercapacitor. <i>International Journal of Energy Research</i> , 2020, 44, 1244-1255.	4.5	19
825	Phenolic resin-based carbon microspheres for potassium ion storage. <i>Applied Surface Science</i> , 2020, 506, 144805.	6.1	10
826	Advances in the application, toxicity and degradation of carbon nanomaterials in environment: A review. <i>Environment International</i> , 2020, 134, 105298.	10.0	241
827	A Triazine-Based Analogue of Graphyne: Scalable Synthesis and Applications in Photocatalytic Dye Degradation and Bacterial Inactivation. <i>Chemistry - A European Journal</i> , 2020, 26, 2269-2275.	3.3	16
828	Thermally conducting polymer/nanocarbon and polymer/inorganic nanoparticle nanocomposite: a review. <i>Polymer-Plastics Technology and Materials</i> , 2020, 59, 895-909.	1.3	22
829	2D van der Waals heterostructures of graphitic BCN as direct Z-scheme photocatalysts for overall water splitting: the role of polar π -conjugated moieties. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 23735-23742.	2.8	16
830	Tuning the electronic structure and thermodynamic properties of hybrid graphene-hexagonal boron nitride monolayer. <i>FlatChem</i> , 2020, 24, 100194.	5.6	6
831	Chitosan as a sustainable precursor for nitrogen-containing carbon nanomaterials: synthesis and uses. <i>Materials Today Sustainability</i> , 2020, 10, 100053.	4.1	35
832	Study on magnetic behaviors in a diluted ferrimagnetic Ising graphene nanoribbon. <i>Superlattices and Microstructures</i> , 2020, 147, 106701.	3.1	30
833	Simultaneous Synthesis and Nitrogen Doping of Free-Standing Graphene Applying Microwave Plasma. <i>Materials</i> , 2020, 13, 4213.	2.9	10
834	Magnetism of Topological Boundary States Induced by Boron Substitution in Graphene Nanoribbons. <i>Physical Review Letters</i> , 2020, 125, 146801.	7.8	73
835	Boron-Doped Graphene Oxide-Supported Nickel Nitride Nanoparticles for Electrocatalytic Oxygen Evolution in Alkaline Electrolytes. <i>ACS Applied Nano Materials</i> , 2020, 3, 9924-9930.	5.0	21
836	Enhanced electrical conductivity of doped graphene fiber via vacuum deposition. <i>Carbon Letters</i> , 2020, 31, 613.	5.9	4
837	The electrochemical behaviors and kinetics of AuNPs/N, S-GQDs composite electrode: A novel label-free amplified BPA aptasensor with extreme sensitivity and selectivity. <i>Journal of Molecular Liquids</i> , 2020, 320, 114384.	4.9	20
838	Nitrogen-Doped Graphene Aerogel for Simultaneous Detection of Dopamine and Ascorbic Acid in Artificial Cerebrospinal Fluid. <i>Journal of the Electrochemical Society</i> , 2020, 167, 116521.	2.9	12

#	ARTICLE	IF	CITATIONS
839	Synthesis of Holey Graphene Nanoparticle Compounds. ACS Applied Materials & Interfaces, 2020, 12, 36513-36522.	8.0	4
840	Boron and nitrogen dopants in graphene have opposite effects on the electrochemical detection of explosive nitroaromatic compounds. Electrochemistry Communications, 2020, 112, 106660.	4.7	15
841	Sulfur self-doped char with high specific capacitance derived from waste tire: Effects of pyrolysis temperature. Science of the Total Environment, 2020, 741, 140193.	8.0	43
842	Theoretical and photodynamic therapy characteristics of heteroatom doped detonation nanodiamonds linked to asymmetrical phthalocyanine for eradication of breast cancer cells. Journal of Luminescence, 2020, 227, 117465.	3.1	8
843	Room-temperature synthesis of water-dispersible sulfur-doped reduced graphene oxide without stabilizers. RSC Advances, 2020, 10, 26460-26466.	3.6	5
844	Templated N-Doped Carbons for Energy Storage and Conversion. ECS Transactions, 2020, 97, 803-816.	0.5	0
845	Novel three-dimensional N-doped interconnected reduced graphene oxide with superb capacitance for energy storage. Journal of Electroanalytical Chemistry, 2020, 875, 113911.	3.8	20
846	Graphene-based anode materials for lithium-ion batteries. , 2020, , 139-164.		3
847	Structural Regulation and Support Coupling Effect of Single-Atom Catalysts for Heterogeneous Catalysis. Advanced Energy Materials, 2020, 10, 2001482.	19.5	172
848	State-of-the-Art on the Preparation, Modification, and Application of Biomass-Derived Carbon Quantum Dots. Industrial & Engineering Chemistry Research, 2020, 59, 22017-22039.	3.7	67
849	Metal-Free Carbon-Based Supercapacitors—A Comprehensive Review. Electrochem, 2020, 1, 410-438.	3.3	18
850	Scalable microgel spinning of a three-dimensional porous graphene fiber for high-performance flexible supercapacitors. Journal of Materials Chemistry A, 2020, 8, 25355-25362.	10.3	41
851	Boosting oxygen evolution reaction on graphene through engineering electronic structure. Carbon, 2020, 170, 414-420.	10.3	26
852	Nitrogen-Doped Mesoporous Carbon Microspheres by Spray Drying-Vapor Deposition for High-Performance Supercapacitor. Frontiers in Chemistry, 2020, 8, 592904.	3.6	6
853	MoS ₂ /graphene composites: Fabrication and electrochemical energy storage. Energy Storage Materials, 2020, 33, 470-502.	18.0	85
854	Superhigh Uniform Magnetic Cr Substitution in a 2D Mo ₂ C Superconductor for a Macroscopic Scale Kondo Effect. Advanced Materials, 2020, 32, 2002825.	21.0	7
855	Synthesis of a conjugated polymer with ring-fused pyridinium units via a postpolymerization intramolecular cyclization reaction. Polymer Journal, 2020, 52, 1401-1406.	2.7	3
856	S-Doped hierarchical graphene decorated with Co-porphyrins as an efficient electrocatalyst for zinc-air batteries. New Journal of Chemistry, 2020, 44, 14343-14349.	2.8	7

#	ARTICLE	IF	CITATIONS
857	Synthetic Tailoring of Graphene Nanostructures with Zigzagâ€Eged Topologies: Progress and Perspectives. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 23386-23401.	13.8	133
858	Sustainable Biomass Activated Carbons as Electrodes for Battery and Supercapacitorsâ€”A Mini-Review. <i>Nanomaterials</i> , 2020, 10, 1398.	4.1	76
859	MaÃŸgeschneiderte Synthese von Graphennanostrukturen mit Zickzackâ€RÄndern. <i>Angewandte Chemie</i> , 2020, 132, 23591-23607.	2.0	50
860	Passively Q-switched thulium fluoride fiber laser operating in S-band region using N-doped graphene saturable absorber. <i>Indian Journal of Physics</i> , 2020, 95, 1837.	1.8	2
861	Heptene-functionalized graphitic nanoplatelets for high-performance composites of linear low-density polyethylene. <i>Composites Science and Technology</i> , 2020, 199, 108380.	7.8	11
862	Efficient removal of bisphenol A and disinfection of waterborne pathogens by boron/nitrogen codoped graphene aerogels via the synergy of adsorption and photocatalysis under visible light. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104300.	6.7	16
863	Intramolecular Photoelectrochemical System Using Tyrosine-Modified Antibody-Targeted Peptide as Electron Donor for Detection of Biomarkers. <i>Analytical Chemistry</i> , 2020, 92, 10935-10939.	6.5	16
864	Prospects for microwave plasma synthesized N-graphene in secondary electron emission mitigation applications. <i>Scientific Reports</i> , 2020, 10, 13013.	3.3	14
865	Heteroatom-doped graphene as sensing materials: a mini review. <i>RSC Advances</i> , 2020, 10, 28608-28629.	3.6	85
866	Polymer-Derived Heteroatom-Doped Porous Carbon Materials. <i>Chemical Reviews</i> , 2020, 120, 9363-9419.	47.7	492
867	Understanding the selective-sensing mechanism of lysine by fluorescent nanosensors based on graphene quantum dots. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 242, 118732.	3.9	21
868	Sodium Adsorption and Intercalation in Bilayer Graphene Doped with B, N, Si and P: A First-Principles Study. <i>Journal of Electronic Materials</i> , 2020, 49, 6336-6347.	2.2	9
869	Green Preparation of Fluorescent Nitrogen-Doped Carbon Quantum Dots for Sensitive Detection of Oxytetracycline in Environmental Samples. <i>Nanomaterials</i> , 2020, 10, 1561.	4.1	47
870	Synthesis of Carbon Dots by Varying Doped Elements and Application in Serine Detection. <i>Journal of Fluorescence</i> , 2020, 30, 1447-1456.	2.5	5
871	Benzoyl hydrazine-anchored graphene oxide as supercapacitor electrodes. <i>Materials Chemistry and Physics</i> , 2020, 256, 123666.	4.0	16
872	Advances and Trends in Chemically Doped Graphene. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000999.	3.7	58
873	Ultrasonic doping and photo-reduction of graphene oxide films for flexible and high-performance electrothermal heaters. <i>FlatChem</i> , 2020, 24, 100199.	5.6	14
874	In Situ Doping-Enabled Metal and Nonmetal Codoping in Graphene Quantum Dots: Synthesis and Application for Contaminant Sensing. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 16565-16576.	6.7	32

#	ARTICLE	IF	CITATIONS
875	Superactive NiFe-LDH/graphene nanocomposites as competent catalysts for water splitting reactions. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 3805-3836.	6.0	85
876	DFT study of electronic and electrical properties of stana-silicene as a novel 2D nanomaterial. <i>Optical and Quantum Electronics</i> , 2020, 52, 1.	3.3	3
877	Lithium Polysulfide Interaction with Group III Atoms-Doped Graphene: A Computational Insight. <i>Batteries</i> , 2020, 6, 46.	4.5	9
878	Direct Observation of the Reduction of a Molecule on Nitrogen Pairs in Doped Graphene. <i>Nano Letters</i> , 2020, 20, 6908-6913.	9.1	8
879	Synthesis of three-dimensional nickel ferrite nanospheres decorated activated graphite nanoplatelets for electrochemical detection of vortioxetine with pharmacokinetic insights in human volunteers. <i>Mikrochimica Acta</i> , 2020, 187, 519.	5.0	8
880	Efficient Imaging of <i>Saccharomyces cerevisiae</i> Based on B- and N-Doped Carbon Dots. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 10223-10231.	5.2	17
881	A fundamental look at electrocatalytic sulfur reduction reaction. <i>Nature Catalysis</i> , 2020, 3, 762-770.	34.4	455
882	Superhalogen doping: a new and effective approach to design materials with excellent static and dynamic NLO responses. <i>New Journal of Chemistry</i> , 2020, 44, 16358-16369.	2.8	35
883	Fabrication of gallium nitride and nitrogen doped single layer graphene hybrid heterostructures for high performance photodetectors. <i>Scientific Reports</i> , 2020, 10, 14507.	3.3	22
884	Enhancement in the Specific Energy of B-doped Graphene Using Redox Additive Electrolytes. <i>ChemistrySelect</i> , 2020, 5, 9825-9833.	1.5	16
885	High-performance sodium-ion anodes enabled by a low-temperature molten salt approach. <i>Chemical Communications</i> , 2020, 56, 11422-11425.	4.1	7
886	One-pot green mass production of hierarchically porous carbon via a recyclable salt-templating strategy. <i>Green Energy and Environment</i> , 2022, 7, 818-828.	8.7	23
887	Phenazine Radical Cations as Efficient Homogeneous and Heterogeneous Catalysts for the Cross-Dehydrogenative Aza-Henry Reaction. <i>Helvetica Chimica Acta</i> , 2020, 103, e2000184.	1.6	7
888	Nitrogen bonding, work function and thermal stability of nitrided graphite surface: An in situ XPS, UPS and HREELS study. <i>Applied Surface Science</i> , 2020, 525, 146562.	6.1	21
889	Plasma-assisted synthesis of pyrrolic-nitrogen doped reduced graphene oxide to enhance supercapacitor performance. <i>Applied Surface Science</i> , 2020, 527, 146574.	6.1	21
890	Heteroatom doped graphene engineering for energy storage and conversion. <i>Materials Today</i> , 2020, 39, 47-65.	14.2	400
891	Advancement of Platinum (Pt)-Free (Non-Pt Precious Metals) and/or Metal-Free (Non-Precious-Metals) Electrocatalysts in Energy Applications: A Review and Perspectives. <i>Energy & Fuels</i> , 2020, 34, 6634-6695.	5.1	100
892	N-Doping of Polyaromatic Capsules: Small Cavity Modification Leads to Large Change in Host-Guest Interactions. <i>Angewandte Chemie</i> , 2020, 132, 11979-11983.	2.0	7

#	ARTICLE	IF	CITATIONS
893	Edge-terminated (1 or 2) Protected Graphitic Nanoplatelets as a Stable Lithium Storage Material. Batteries and Supercaps, 2020, 3, 928-935.	4.7	6
894	Realizing the Intrinsic Electrochemical Activity of Acidic N-Doped Graphene through Pyrenesulfonic Acid Bridges. Advanced Functional Materials, 2020, 30, 2001237.	14.9	2
896	Nitrogen and Sulfur Co-doped Porous Carbon Derived from ZIF-8 as Oxygen Reduction Reaction Catalyst for Microbial Fuel Cells. Journal Wuhan University of Technology, Materials Science Edition, 2020, 35, 280-286.	1.0	5
897	Heteroatom-Doped Carbon Electrocatalysts Derived from Nanoporous Two-Dimensional Covalent Organic Frameworks for Oxygen Reduction and Hydrogen Evolution. ACS Applied Nano Materials, 2020, 3, 5481-5488.	5.0	46
898	Rational Catalyst Design for N ₂ Reduction under Ambient Conditions: Strategies toward Enhanced Conversion Efficiency. ACS Catalysis, 2020, 10, 6870-6899.	11.2	273
899	Active N dopant states of electrodes regulate extracellular electron transfer of Shewanella oneidensis MR-1 for bioelectricity generation: Experimental and theoretical investigations. Biosensors and Bioelectronics, 2020, 160, 112231.	10.1	15
900	Machine-learning-accelerated screening of hydrogen evolution catalysts in MBenes materials. Applied Surface Science, 2020, 526, 146522.	6.1	50
901	Sustainable Catalytic Processes Driven by Graphene-Based Materials. Processes, 2020, 8, 672.	2.8	8
902	Three-Dimensional Ternary Hybrid Architectures Constructed from Graphene, MoS ₂ , and Graphitic Carbon Nitride Nanosheets as Efficient Electrocatalysts for Hydrogen Evolution. ACS Applied Energy Materials, 2020, 3, 6880-6888.	5.1	30
903	Self-assembly of block copolymers towards mesoporous materials for energy storage and conversion systems. Chemical Society Reviews, 2020, 49, 4681-4736.	38.1	311
904	3D porous oxygen-enriched graphene hydrogels with well-balanced volumetric and gravimetric performance for symmetric supercapacitors. Journal of Materials Science, 2020, 55, 12214-12231.	3.7	14
905	Heteroatom Doping: An Effective Way to Boost Sodium Ion Storage. Advanced Energy Materials, 2020, 10, 2000927.	19.5	309
906	Exploring the adsorption and sensing behavior of the M-N _x -B ₃ C _{6-x} (M=Fe, Ni, and Cu; x=0, 3) bowl-shaped structures upon CO, NO, O ₂ , and N ₂ molecules: A first-principles study. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 124, 114242.	2.7	3
907	Boron and nitrogen doping in graphene: an experimental and density functional theory (DFT) study. Nano Express, 2020, 1, 010027.	2.4	19
908	Anode materials for potassium-ion batteries: Current status and prospects. , 2020, 2, 350-369.		73
909	Functionalized Graphene Derivatives and TiO ₂ for High Visible Light Photodegradation of Azo Dyes. Nanomaterials, 2020, 10, 1106.	4.1	12
910	Single Si-Doped Graphene as a Catalyst in Oxygen Reduction Reactions: An In Silico Study. ACS Omega, 2020, 5, 15268-15279.	3.5	21
911	Microstructures and electrothermal characterization of aromatic poly(azomethine ether)-derived carbon films. Journal of Applied Polymer Science, 2020, 137, 49345.	2.6	3

#	ARTICLE	IF	CITATIONS
912	Graphene Quantum Dotsâ€‘Based Advanced Electrode Materials: Design, Synthesis and Their Applications in Electrochemical Energy Storage and Electrocatalysis. Advanced Energy Materials, 2020, 10, 2001275.	19.5	109
913	Interface Heteroatomâ€‘doping: Emerging Solutions to Siliconâ€‘based Anodes. Chemistry - an Asian Journal, 2020, 15, 1394-1404.	3.3	24
914	Surface Engineering of Organic Polymers by Photoâ€‘induced Free Radical Coupling with <i>p</i> -Dimethylaminophenyl Group as A Synthesis Block. ChemistrySelect, 2020, 5, 3365-3373.	1.5	2
915	Strategy for Constructing Nitrogen-Doped Graphene Structure by Patching Reduced Graphene Oxide under Low Temperature and Its Application in Supercapacitors. Industrial & Engineering Chemistry Research, 2020, 59, 7475-7484.	3.7	10
916	Pulsed Plasma Assisted Cl-Doped Graphene Nano Dots with Semiconducting Property. Chemistry Letters, 2020, 49, 648-651.	1.3	1
917	Graphene Oxide Functionalized with 5-Aminophenanthroline for Selective Detection of Adenine through Fluorescence â€‘Turn-Offâ€‘ Onâ€‘Response. ACS Applied Nano Materials, 2020, 3, 3532-3539.	5.0	6
918	Blending functionalised ligands to form multivariate metalâ€‘organic framework nanosheets (MTV-MONs) with tuneable surface chemistry. Nanoscale, 2020, 12, 7986-7994.	5.6	10
919	Nanoscale Assembly of 2D Materials for Energy and Environmental Applications. Advanced Materials, 2020, 32, e1907006.	21.0	106
920	An efficient $\text{CoMoS}_{2\text{D}}$ nanosheets on nitrogen, sulfur dual doped reduced graphene oxide as an electrocatalyst for the hydrogen evolution reaction. International Journal of Energy Research, 2021, 45, 17397-17407.	4.5	21
921	Recent advances of 3D graphene-based adsorbents for sample preparation of water pollutants: A review. Chemical Engineering Journal, 2020, 393, 124691.	12.7	103
922	Applications of Graphene Modified by Self-Assembled Monolayers. , 2020, , .		1
923	Phosphorous-Doped Graphitic Material as a Solid Acid Catalyst for Microwave-Assisted Synthesis of Î²-Ketoenamines and Baeyerâ€‘Villiger Oxidation. ACS Omega, 2020, 5, 15962-15972.	3.5	8
924	Ultrahigh rate capability supercapacitors based on tremella-like nitrogen and phosphorus co-doped graphene. Materials Chemistry Frontiers, 2020, 4, 2704-2715.	5.9	24
925	Boron-, nitrogen-, aluminum-, and phosphorus-doped graphite electrodes for non-lithium ion batteries. Current Applied Physics, 2020, 20, 988-993.	2.4	8
926	MoS_2 on Nitrogen-Doped Graphene for High-Efficiency Hydrogen Evolution Reaction: Unraveling the Mechanisms of Unique Interfacial Bonding for Efficient Charge Transport and Stability. ACS Applied Materials & Interfaces, 2020, 12, 34825-34836.	8.0	20
927	Catalyst-free solvothermal synthesis of ultrapure elemental N- and B-doped graphene for energy storage application. Solid State Ionics, 2020, 353, 115371.	2.7	16
928	Co-N-C in porous carbon with enhanced lithium ion storage properties. Chemical Engineering Journal, 2020, 389, 124377.	12.7	34
929	Tunable Synthesis of Nitrogen Doped Graphene from Fluorographene under Mild Conditions. ACS Sustainable Chemistry and Engineering, 2020, 8, 4764-4772.	6.7	26

#	ARTICLE	IF	CITATIONS
930	High Electrochemical Performance of 2.5â€%V Aqueous Symmetric Supercapacitor Based on Nitrogenâ€Doped Reduced Graphene Oxide. Energy Technology, 2020, 8, 1901339.	3.8	19
931	Comparative Catalytic Activity of Graphene Imperfections in Oxygen Reduction Reaction. Journal of Physical Chemistry C, 2020, 124, 6038-6053.	3.1	12
932	Solution-Processed Sensing Textiles with Adjustable Sensitivity and Linear Detection Range Enabled by Twisting Structure. ACS Applied Materials & Interfaces, 2020, 12, 12155-12164.	8.0	28
933	Printed gas sensors. Chemical Society Reviews, 2020, 49, 1756-1789.	38.1	216
934	Magnetothermal Microfluidicâ€Assisted Hierarchical Microfibers for Ultrahighâ€Energyâ€Density Supercapacitors. Angewandte Chemie - International Edition, 2020, 59, 7934-7943.	13.8	57
935	Off-on fluorescent switching of boron-doped carbon quantum dots for ultrasensitive sensing of catechol and glutathione. Carbon, 2020, 162, 234-244.	10.3	82
936	Magnetothermal Microfluidicâ€Assisted Hierarchical Microfibers for Ultrahighâ€Energyâ€Density Supercapacitors. Angewandte Chemie, 2020, 132, 8008-8017.	2.0	22
937	Boron-doped graphene synthesis by pulsed laser co-deposition of carbon and boron. Applied Surface Science, 2020, 513, 145843.	6.1	17
938	Recent advances in doping engineering of black phosphorus. Journal of Materials Chemistry A, 2020, 8, 5421-5441.	10.3	93
939	Graphene-Oxide-Based Electrochemical Sensors for the Sensitive Detection of Pharmaceutical Drug Naproxen. Sensors, 2020, 20, 1252.	3.8	69
940	Graphene-Based Thermoelectrics. ACS Applied Energy Materials, 2020, 3, 2224-2239.	5.1	70
941	Microwave plasma-based direct synthesis of free-standing N-graphene. Physical Chemistry Chemical Physics, 2020, 22, 4772-4787.	2.8	26
942	Peculiar piezoelectricity of atomically thin planar structures. Nanoscale, 2020, 12, 2875-2901.	5.6	44
943	3D hierarchical carbon nanofibers/TiO2@MoS2 core-shell heterostructures by electrospinning, hydrothermal and in-situ growth for flexible electrode materials. Materials and Design, 2020, 189, 108503.	7.0	43
944	Sulfur doped-graphene for enhanced acetaminophen degradation via electro-catalytic activation: Efficiency and mechanism. Science of the Total Environment, 2020, 715, 136730.	8.0	28
945	Hierarchical N-doped hollow carbon microspheres as advanced materials for high-performance lithium-ion capacitors. Journal of Materials Chemistry A, 2020, 8, 3956-3966.	10.3	58
946	Sulfur and nitrogen coâ€doped graphene quantum dotâ€Assisted chemiluminescence for sensitive detection of tryptophan and mercury (II). Luminescence, 2020, 35, 773-780.	2.9	22
947	Heteroatom doping of two-dimensional materials: From graphene to chalcogenides. Nano Today, 2020, 30, 100829.	11.9	91

#	ARTICLE	IF	CITATIONS
948	Novel folic acid complex derived nitrogen and nickel co-doped carbon nanotubes with embedded Ni nanoparticles as efficient electrocatalysts for CO ₂ reduction. Journal of Materials Chemistry A, 2020, 8, 5105-5114.	10.3	18
949	Two-dimensional materials for energy conversion and storage. Progress in Materials Science, 2020, 111, 100637.	32.8	134
950	Current Updates and Perspectives of Biosorption Technology: an Alternative for the Removal of Heavy Metals from Wastewater. Current Pollution Reports, 2020, 6, 8-27.	6.6	82
951	Highly Sensitive and Contactless Ammonia Detection Based on Nanocomposites of Phosphate-Functionalized Reduced Graphene Oxide/Polyaniline Immobilized on Microstrip Resonators. ACS Applied Materials & Interfaces, 2020, 12, 9746-9754.	8.0	53
952	Electric field-assisted synthesis of Pt, carbon quantum dots-co-loaded graphene hybrid for hydrogen evolution reaction. Journal of Power Sources, 2020, 451, 227770.	7.8	32
953	Exploring doped or vacancy-modified graphene-based electrodes for applications in asymmetric supercapacitors. Physical Chemistry Chemical Physics, 2020, 22, 3906-3913.	2.8	26
954	A novel fluorescence aptamer biosensor for trace Pb(II) based on gold-doped carbon dots and DNAzyme synergetic catalytic amplification. Journal of Luminescence, 2020, 221, 117056.	3.1	27
955	Two-dimensional (2D)/2D Interface Engineering of a MoS ₂ /C ₃ N ₄ Heterostructure for Promoted Electrocatalytic Nitrogen Fixation. ACS Applied Materials & Interfaces, 2020, 12, 7081-7090.	8.0	255
956	C(sp ³)â€”H Polyamination of Internal Alkynes toward Regio- and Stereoregular Functional Poly(allylic tertiary amine)s. Macromolecules, 2020, 53, 3358-3369.	4.8	13
957	An electrochemical evaluation of nitrogen-doped carbons as anodes for lithium ion batteries. Carbon, 2020, 164, 261-271.	10.3	53
958	Study of the effect of chemical composition on the surface wettability of three-dimensional graphene foams. Chinese Chemical Letters, 2020, 31, 1839-1842.	9.0	6
959	Chromium, fluorine and nitrogen tri-doped graphene sheets as an active electrode material for symmetric supercapacitors. Diamond and Related Materials, 2020, 105, 107800.	3.9	16
960	Two-dimensional transition metal carbide and nitride (MXene) derived quantum dots (QDs): synthesis, properties, applications and prospects. Journal of Materials Chemistry A, 2020, 8, 7508-7535.	10.3	201
961	Effects of precursorsâ€™ purity on graphene quality: Synthesis and thermoelectric effect. AIP Advances, 2020, 10, .	1.3	2
962	Single-Molecule Conductance through an Isoelectronic Bâ€”N Substituted Phenanthrene Junction. Journal of the American Chemical Society, 2020, 142, 8068-8073.	13.7	37
963	B-doped graphitic porous biochar with enhanced surface affinity and electron transfer for efficient peroxydisulfate activation. Chemical Engineering Journal, 2020, 396, 125119.	12.7	148
964	Nâ€”Doping of Polyaromatic Capsules: Small Cavity Modification Leads to Large Change in Hostâ€”Guest Interactions. Angewandte Chemie - International Edition, 2020, 59, 11881-11885.	13.8	21
965	Singleâ€”Atomic Catalysts Embedded on Nanocarbon Supports for High Energy Density Lithiumâ€”Sulfur Batteries. ChemSusChem, 2020, 13, 3404-3411.	6.8	41

#	ARTICLE	IF	CITATIONS
966	Sulfur-Doped g-C ₃ N ₄ and BiPO ₄ Nanorod Hybrid Architectures for Enhanced Photocatalytic Hydrogen Evolution under Visible Light Irradiation. ACS Applied Energy Materials, 2020, 3, 5024-5030.	5.1	38
967	Carbon-Phosphorus Bonds-Enriched 3D Graphene by Self-Sacrificing Black Phosphorus Nanosheets for Elevating Capacitive Lithium Storage. ACS Applied Materials & Interfaces, 2020, 12, 21720-21729.	8.0	33
968	Si-Doped Single-Walled Carbon Nanotubes as Potential Catalysts for Oxygen Reduction Reactions. Russian Journal of General Chemistry, 2020, 90, 454-459.	0.8	6
969	Fe, V-co-doped C ₂ N for electrocatalytic N ₂ -to-NH ₃ conversion. Journal of Energy Chemistry, 2021, 53, 303-308.	12.9	55
970	Preparation and Application of Hierarchical Porous Carbon Materials from Waste and Biomass: A Review. Waste and Biomass Valorization, 2021, 12, 1699-1724.	3.4	87
971	Advances in in-situ characterizations of electrode materials for better supercapacitors. Journal of Energy Chemistry, 2021, 54, 242-253.	12.9	37
972	Recent advances in carbon nanostructures prepared from carbon dioxide for high-performance supercapacitors. Journal of Energy Chemistry, 2021, 54, 352-367.	12.9	97
973	Interlayer Space Engineering of MXenes for Electrochemical Energy Storage Applications. Chemistry - A European Journal, 2021, 27, 1921-1940.	3.3	45
974	Scalable fabrication and active site identification of MOF shell-derived nitrogen-doped carbon hollow frameworks for oxygen reduction. Journal of Materials Science and Technology, 2021, 66, 186-192.	10.7	23
975	Laser patterning of boron carbon nitride electrodes for flexible micro-supercapacitor with remarkable electrochemical stability/capacity. Carbon, 2021, 171, 750-757.	10.3	40
976	Spontaneously producing syngas from MFC-MEC coupling system based on biocompatible bifunctional metal-free electrocatalyst. Science China Materials, 2021, 64, 592-600.	6.3	1
977	Hydrothermal and Pyrolytic Conversion of Biomasses into Catalysts for Advanced Oxidation Treatments. Advanced Functional Materials, 2021, 31, 2006505.	14.9	64
978	Exploring the structure-capacitance relation of graphene film-based supercapacitor. Journal of Materials Science, 2021, 56, 2506-2516.	3.7	4
979	A C-S Linkage-Triggered Ultrahigh Nitrogen-Doped Carbon and the Identification of Active Site in Triiodide Reduction. Angewandte Chemie - International Edition, 2021, 60, 3587-3595.	13.8	41
980	Low-platinum catalyst based on sulfur doped graphene for methanol oxidation in alkaline media. Materials Today Energy, 2021, 19, 100588.	4.7	13
981	Formic Acid-Assisted Selective Hydrogenolysis of 5-Hydroxymethylfurfural to 2,5-Dimethylfuran over Bifunctional Pd Nanoparticles Supported on N-Doped Mesoporous Carbon. Angewandte Chemie - International Edition, 2021, 60, 6807-6815.	13.8	65
982	The magnetic behaviors and magnetocaloric effect of a nano-graphene bilayer: A Monte Carlo study. Superlattices and Microstructures, 2021, 149, 106775.	3.1	48
983	The identification of specific N-configuration responsible for Li-ion storage in N-doped porous carbon nanofibers: An ex-situ study. Journal of Power Sources, 2021, 483, 229174.	7.8	17

#	ARTICLE	IF	CITATIONS
984	Ameisensäureunterstützte selektive Hydrogenolyse von 5-Hydroxymethylfurfural zu 2,5-Dimethylfuran über bifunktionale Pd-Nanopartikel auf N-dotiertem mesoporen Kohlenstoff als Träger. Angewandte Chemie, 2021, 133, 6882-6891.	2.0	13
985	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. Electrochimica Acta, 2021, 367, 137507.	5.2	10
986	Carbon materials for ion-intercalation involved rechargeable battery technologies. Chemical Society Reviews, 2021, 50, 2388-2443.	38.1	255
987	A C-S Linkage Triggered Ultrahigh Nitrogen-Doped Carbon and the Identification of Active Site in Triiodide Reduction. Angewandte Chemie, 2021, 133, 3631-3639.	2.0	7
988	Organic solar cells: Current perspectives on graphene-based materials for electrodes, electron acceptors and interfacial layers. International Journal of Energy Research, 2021, 45, 6518-6549.	4.5	22
989	Single Atom Catalysts (SAC) trapped in defective and nitrogen-doped graphene supported on metal substrates. Carbon, 2021, 174, 772-788.	10.3	50
990	Heteroatom-doped porous carbons exhibit superior CO ₂ capture and CO ₂ /N ₂ selectivity: Understanding the contribution of functional groups and pore structure. Separation and Purification Technology, 2021, 259, 118065.	7.9	57
991	Ultra-high capacity of graphene oxide conjugated covalent organic framework nanohybrid for U(VI) and Eu(III) adsorption removal. Journal of Molecular Liquids, 2021, 323, 114603.	4.9	30
992	Doping mechanism directed graphene applications for energy conversion and storage. Journal of Materials Chemistry A, 2021, 9, 7366-7395.	10.3	29
993	Ab initio characterization of N doped T-graphene and its application as an anode material for Na ion rechargeable batteries. Sustainable Energy and Fuels, 2021, 5, 4060-4068.	4.9	9
994	Ni/NiO/Ni-B/graphene heterostructure-modified electrodes and their electrochemical activities towards acetaminophen. Analytical Methods, 2021, 13, 3187-3195.	2.7	6
995	Heteroatom-Doped Carbon Materials as Support for Anode Electrocatalysts for Direct Formic Acid Fuel Cells. International Journal of Electrochemical Science, 2021, 16, 150926.	1.3	9
996	Electrocatalysis for CO ₂ conversion: from fundamentals to value-added products. Chemical Society Reviews, 2021, 50, 4993-5061.	38.1	559
997	Untangling the respective effects of heteroatom-doped carbon materials in batteries, supercapacitors and the ORR to design high performance materials. Energy and Environmental Science, 2021, 14, 2036-2089.	30.8	351
998	Pillararene-enriched linear conjugated polymer materials with thiazolo[5,4-d]thiazole linkages for photocatalysis. Chemical Communications, 2021, 57, 6546-6549.	4.1	17
999	Graphene-based frustrated Lewis pairs as bifunctional catalysts for CO ₂ reduction via the dissociative chemisorption of molecular H ₂ : a periodic density functional perspective. New Journal of Chemistry, 2021, 45, 9959-9966.	2.8	3
1000	Freestanding Photocatalytic Materials Based on 3D Graphene for Degradation of Organic Pollutants. Chemistry in the Environment, 2021, , 337-366.	0.4	0
1001	Room Temperature Gas Sensor Based on Reduced Graphene Oxide for Environmental Monitoring. , 2021, , 3243-3261.		0

#	ARTICLE	IF	CITATIONS
1002	Pyrolysis-free covalent organic framework-based materials for efficient oxygen electrocatalysis. Journal of Materials Chemistry A, 2021, 9, 20985-21004.	10.3	33
1003	Recent advances in metal-free heteroatom-doped carbon heterogonous catalysts. RSC Advances, 2021, 11, 23725-23778.	3.6	28
1004	“Water-In-Salt” Electrolyte-Based High-Voltage (2.7 V) Sustainable Symmetric Supercapacitor with Superb Electrochemical Performance” An Analysis of the Role of Electrolytic Ions in Extending the Cell Voltage. ACS Sustainable Chemistry and Engineering, 2021, 9, 2338-2347.	6.7	28
1005	Hexagonal petal-like cobalt oxide nanowire arrays encapsulated by MOF-derived Co/N-codoped carbon for boosting electrochemical capacitor behaviour. Materials Chemistry Frontiers, 2021, 5, 6969-6977.	5.9	10
1006	Design, Fabrication, and Mechanism of Nitrogen-Doped Graphene-Based Photocatalyst. Advanced Materials, 2021, 33, e2003521.	21.0	324
1007	Carbon Nanomaterials for Air and Water Remediation. , 2021, , 331-365.		1
1008	Recent progress in biomass-derived carbon materials used for secondary batteries. Sustainable Energy and Fuels, 2021, 5, 3017-3038.	4.9	36
1009	Transport at the nanoscale. , 2021, , 363-460.		0
1010	Rational design of N-doped CNTs@C ₃ N ₄ network for dual-capture of biocatalysts in enzymatic glucose/O ₂ biofuel cells. Nanoscale, 2021, 13, 7774-7782.	5.6	16
1011	Carbon defects applied to potassium-ion batteries: a density functional theory investigation. Nanoscale, 2021, 13, 13719-13734.	5.6	21
1012	HeteroMXenes: Theory, Synthesis, and Emerging Applications. Advanced Materials, 2021, 33, e2004129.	21.0	150
1013	Effect of secondary heteroatom (S, P) in N-doped reduced graphene oxide catalysts to oxygen reduction reaction. Molecular Catalysis, 2021, 502, 111372.	2.0	11
1015	Graphene transfer methods: A review. Nano Research, 2021, 14, 3756-3772.	10.4	95
1016	Plasma Assisted Reduction of Graphene Oxide Films. Nanomaterials, 2021, 11, 382.	4.1	9
1017	Nitrogen-Containing Tubular Hollow Carbon Frameworks: A Nongraphitic Carbon for a Robust Room Temperature Hydrogen Gas Sensing Application. , 2021, 5, 1-4.		1
1018	Co- and N-doped carbon nanotubes with hierarchical pores derived from metal-organic nanotubes for oxygen reduction reaction. Journal of Energy Chemistry, 2021, 53, 49-55.	12.9	18
1019	Electronic, magnetic and optical properties of blue phosphorene doped with Y, Zr, Nb and Mo: A first-principles study. Thin Solid Films, 2021, 720, 138523.	1.8	12
1020	Negative photoconductivity in low-dimensional materials*. Chinese Physics B, 2021, 30, 028507.	1.4	25

#	ARTICLE	IF	CITATIONS
1021	Synthesis and Photophysical Properties of Soluble N-Doped Rubicenes via Ruthenium-Catalyzed Transfer Hydrogenative Benzannulation. Chemistry - A European Journal, 2021, 27, 4898-4902.	3.3	9
1022	Co ₃ O ₄ @NiCo ₂ O ₄ Hybrid Nanoparticles Anchored on N-Doped Reduced Graphene Oxide Nanosheets as an Efficient Catalyst for Zn-Air Batteries. Energy & Fuels, 2021, 35, 4550-4558.	5.1	21
1023	2D Materials Bridging Experiments and Computations for Electro/Photocatalysis. Advanced Energy Materials, 2022, 12, 2003841.	19.5	116
1025	Recent trends in Nitrogen doped polymer composites: a review. Journal of Polymer Research, 2021, 28, 1.	2.4	9
1026	Combined Density Functional Theory and Molecular Dynamics Simulations To Investigate the Effects of Quantum and Double-Layer Capacitances in Functionalized Graphene as the Electrode Material of Aqueous-Based Supercapacitors. Journal of Physical Chemistry C, 2021, 125, 5518-5524.	3.1	12
1027	Precursor Controlled Strategy for N, S, F-Reduced Graphene Oxide (RGO) Preparation and Its Electro-Degradation Toward Bisphenol A. Catalysis Letters, 2021, 151, 3170-3188.	2.6	3
1028	Loading harmine on nanographene changes the inhibitory effects of free harmine against MCF-7 and fibroblast cells. Medicinal Chemistry Research, 2021, 30, 1108-1116.	2.4	7
1029	Cobalt-Phosphorus Decorated Graphene as Electrocatalyst for Oxygen Reduction Reactions: A Density Functional Theory Study. International Journal of Electrochemical Science, 0, , 210332.	1.3	2
1030	Recent Developments in Graphene-Based Toxic Gas Sensors: A Theoretical Overview. Sensors, 2021, 21, 1992.	3.8	61
1031	Long-Life Dendrite-Free Lithium Metal Electrode Achieved by Constructing a Single Metal Atom Anchored in a Diffusion Modulator Layer. Nano Letters, 2021, 21, 3245-3253.	9.1	64
1032	In-situ functionalization of binder-free three-dimensional boron-doped mesoporous graphene electrocatalyst as a high-performance electrode material for all-vanadium redox flow batteries. Applied Materials Today, 2021, 22, 100950.	4.3	8
1033	Preparation of different heteroatom doped graphene oxide based electrodes by electrochemical method and their supercapacitor applications. Journal of Energy Storage, 2021, 35, 102328.	8.1	111
1034	Recent Advances in Electrical Doping of 2D Semiconductor Materials: Methods, Analyses, and Applications. Nanomaterials, 2021, 11, 832.	4.1	36
1035	Dirac Semimetals in Homogeneous Holey Carbon Nitride Monolayers. Journal of Physical Chemistry C, 2021, 125, 6082-6089.	3.1	17
1036	Sulfur- and nitrogen-doped rice husk-derived C/SiOx composites as high-performance lithium-ion battery anodes. Solid State Ionics, 2021, 361, 115548.	2.7	23
1037	Pyrimidine-Substituted Hexaarylbenzenes as Versatile Building Blocks for N-doped Organic Materials. Organic Materials, 0, 03, .	2.0	2
1038	Facile synthesis of nitrogen-doped and boron-doped reduced graphene oxide using radio-frequency plasma for supercapacitors. Journal Physics D: Applied Physics, 2021, 54, 265501.	2.8	10
1039	Obtaining and evaluation of polyethylene nanocomposites with graphene nanoplatelets through in-situ ethylene polymerization. Canadian Journal of Chemical Engineering, 2022, 100, 291-301.	1.7	0

#	ARTICLE	IF	CITATIONS
1040	Sulfur and nitrogen co-doped rGO sheets as efficient electrocatalyst for oxygen reduction reaction in alkaline medium. <i>Diamond and Related Materials</i> , 2021, 114, 108338.	3.9	15
1041	A ternary FeS ₂ /Fe ₇ S ₈ @nitrogen-sulfur co-doping reduced graphene oxide hybrid towards superior-performance lithium storage. <i>Progress in Natural Science: Materials International</i> , 2021, 31, 207-214.	4.4	28
1042	Folic acid self-assembly synthesis of ultrathin N-doped carbon nanosheets with single-atom metal catalysts. <i>Energy Storage Materials</i> , 2021, 36, 409-416.	18.0	39
1043	One-pot hydrothermal synthesis of nitrogen-doped reduced graphene oxide for the highly sensitive and simultaneous determination of dihydroxy benzene isomers. <i>Journal of Applied Electrochemistry</i> , 2021, 51, 1189.	2.9	10
1044	Facile Synthesis of Ag/AgVO ₃ /N-rGO Hybrid Nanocomposites for Electrochemical Detection of Levofloxacin for Complex Biological Samples Using Screen-Printed Carbon Paste Electrodes. <i>Inorganic Chemistry</i> , 2021, 60, 6585-6599.	4.0	28
1045	Synergetic Advantages of Atomically Coupled 2D Inorganic and Graphene Nanosheets as Versatile Building Blocks for Diverse Functional Nanohybrids. <i>Advanced Materials</i> , 2021, 33, e2005922.	21.0	49
1046	Waste tire heat treatment to prepare sulfur self-doped char via pyrolysis and K ₂ FeO ₄ -assisted activation methods. <i>Waste Management</i> , 2021, 125, 145-153.	7.4	12
1047	Fe/N co-doped mesoporous carbon derived from cellulose-based ionic liquid as an efficient heterogeneous catalyst toward nitro aromatic compound reduction reaction. <i>International Journal of Biological Macromolecules</i> , 2021, 175, 432-442.	7.5	17
1048	Theoretical Insights into Enhanced Electrocatalytic Activity of Oxygen Reduction Reactions on N/S-Codoped Graphene Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2021, 125, 9747-9755.	3.1	14
1049	Recent advances in anode materials for potassium-ion batteries: A review. <i>Nano Research</i> , 2021, 14, 4442-4470.	10.4	76
1050	Electrochemical performance of in situ LiFePO ₄ modified by N-doped graphene for Li-ion batteries. <i>Ceramics International</i> , 2021, 47, 11332-11339.	4.8	28
1051	Nitrogen-doped porous graphitized carbon from antibiotic bacteria residues induced by sodium carbonate and application in Li-ion battery. <i>Journal of Electroanalytical Chemistry</i> , 2021, 889, 115179.	3.8	7
1052	Green and controllable synthesis of multi-heteroatoms co-doped graphene fiber as flexible and biocompatible microelectrode for in situ electrochemical detection of biological samples. <i>Sensors and Actuators B: Chemical</i> , 2021, 335, 129683.	7.8	16
1053	Folic Acid Self-Assembly Enabling Manganese Single-Atom Electrocatalyst for Selective Nitrogen Reduction to Ammonia. <i>Nano-Micro Letters</i> , 2021, 13, 125.	27.0	39
1054	Discovery of Single-Atom Catalyst: Customized Heteroelement Dopants on Graphene. <i>Accounts of Materials Research</i> , 2021, 2, 394-406.	11.7	19
1055	Bandgap Modulation in BP Field Effect Transistor and Its Applications. <i>Advanced Electronic Materials</i> , 2021, 7, 2100228.	5.1	2
1056	Ultrafine TiO ₂ Nanoparticle Supported Nitrogen-Rich Graphitic Porous Carbon as an Efficient Anode Material for Potassium-Ion Batteries. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2100042.	5.8	8
1057	Glycine betaine functionalized graphene oxide as a new engineering nanoparticle lessens salt stress impacts in sweet basil (<i>Ocimum basilicum</i> L.). <i>Plant Physiology and Biochemistry</i> , 2021, 162, 14-26.	5.8	42

#	ARTICLE	IF	CITATIONS
1058	Boron doped graphene synthesis using pulsed laser deposition and its electrochemical characterization. <i>Diamond and Related Materials</i> , 2021, 115, 108382.	3.9	7
1059	Two-dimensional Conducting Metal-Organic Frameworks Enabled Energy Storage Devices. <i>Energy Storage Materials</i> , 2021, 37, 396-416.	18.0	44
1060	On-pot fabrication of binder-free composite of iron oxide grown onto porous N-doped graphene layers with outstanding charge storage performance for supercapacitors. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 13156-13176.	2.2	12
1061	Preparation and characterization of N-doped porous carbon derived from chlorinated polypropylene with controllable nitrogen content and specific surface area. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 616, 126332.	4.7	3
1062	Thermodynamic and magnetocaloric properties of a triple-layer graphene-like structure. <i>Physica Scripta</i> , 2021, 96, 075809.	2.5	14
1063	Heteroatom-doped graphene-based materials for sustainable energy applications: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 143, 110849.	16.4	192
1064	N-Doped Graphene Oxide as Additive for Fumed Silica Based Gel Electrolyte of Valve Regulated Lead Acid Batteries. <i>Journal of the Electrochemical Society</i> , 2021, 168, 060512.	2.9	30
1065	Preparation of high-performance, three-dimensional, hierarchical porous carbon Supercapacitor materials and high-value-added potassium Humate from cotton stalks. <i>Diamond and Related Materials</i> , 2021, 116, 108375.	3.9	10
1066	<i>In situ</i> synthesis of nitrogen-doped graphene nanoflakes using non-thermal arc plasma. <i>Journal of Applied Physics</i> , 2021, 129, .	2.5	4
1067	Synthesis of Heteroatom (B, N, and O)-Doped Carbons via Chlorination of a Carbonitride“Boride Mixture: Influence of Boron Addition on Structure and Electrochemical Properties of Carbon. <i>Journal of Physical Chemistry C</i> , 2021, 125, 13850-13861.	3.1	3
1068	Facile and economic synthesis of heteroatoms co-doped graphene using garlic biomass as a highly stable electrocatalyst toward 4 e ⁻ ORR. <i>Journal of the Iranian Chemical Society</i> , 2022, 19, 257-267.	2.2	3
1069	Opportunities and Challenges in Precise Synthesis of Transition Metal Single-Atom Supported by 2D Materials as Catalysts toward Oxygen Reduction Reaction. <i>Advanced Functional Materials</i> , 2021, 31, 2103558.	14.9	51
1070	The Role of Nitrogen-doping in the Catalytic Transfer Hydrogenation of Phenol to Cyclohexanone with Formic Acid over Pd supported on Carbon Nanotubes. <i>Chemistry - A European Journal</i> , 2021, 27, 10948-10956.	3.3	12
1071	Preparation of novel thick sheet graphene and its effect on the properties of polyolefins with different crystallinities. <i>Polymer Bulletin</i> , 2022, 79, 5955-5974.	3.3	4
1072	Two-Dimensional Conductive “d Frameworks with Multiple Sensory Capabilities. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 28703-28709.	8.0	5
1073	Towards high performance flexible planar supercapacitors: In-situ laser scribing doping and reduction of graphene oxide films. <i>Applied Surface Science</i> , 2021, 551, 149457.	6.1	32
1074	Industry-scale and Environmentally Stable Ti ₃ C ₂ T _x MXene Based Film for Flexible Energy Storage Devices. <i>Advanced Functional Materials</i> , 2021, 31, 2103960.	14.9	71
1075	Synthesis of Phosphorus Doped Graphenes via the Yucel’s Method as the Positive Electrode of a Vanadium Redox Flow Battery. <i>Journal of the Electrochemical Society</i> , 2021, 168, 060504.	2.9	23

#	ARTICLE	IF	CITATIONS
1076	Magnetic and thermodynamic behaviors of the graphene-like quantum dots: A Monte Carlo study. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 528, 167820.	2.3	27
1077	Promising photodynamic antimicrobial activity of polyimine substituted zinc phthalocyanine and its polycationic derivative when conjugated to nitrogen, sulfur, co-doped graphene quantum dots against <i>Staphylococcus aureus</i> . <i>Photodiagnosis and Photodynamic Therapy</i> , 2021, 34, 102300.	2.6	16
1078	Manipulating cell behavior on a bacterial macro-polymer poly (3-hydroxybutyrate-co-3-hydroxyhexanoate) via tuning the S-doped graphene ratio. <i>International Journal of Biological Macromolecules</i> , 2021, 182, 2076-2086.	7.5	2
1079	Graphene for Thermal Storage Applications: Characterization, Simulation and Modelling. <i>Journal of Electronic Materials</i> , 2021, 50, 5090.	2.2	2
1080	In situ N-, P- and Ca-codoped biochar derived from animal bones to boost the electrocatalytic hydrogen evolution reaction. <i>Resources, Conservation and Recycling</i> , 2021, 170, 105568.	10.8	17
1081	Construction of Heptagon-Containing Molecular Nanocarbons. <i>Angewandte Chemie</i> , 2021, 133, 23700-23724.	2.0	31
1082	Universal Fluorination-Created Edge C-F Groups in Networks of Multidimensional Carbon Materials. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 7026-7033.	4.6	6
1083	Enhancing activity, selectivity and stability of palladium catalysts in formic acid decomposition: Effect of support functionalization. <i>Catalysis Today</i> , 2021, 382, 61-70.	4.4	16
1084	Methane Adsorption on Heteroatom-Modified Maquettes of Porous Carbon Surfaces. <i>Journal of Physical Chemistry A</i> , 2021, 125, 6042-6058.	2.5	5
1085	Comprehensive Understanding of the Thriving Ambient Electrochemical Nitrogen Reduction Reaction. <i>Advanced Materials</i> , 2021, 33, e2007650.	21.0	229
1086	Three-dimensional N/S Co-doped holey graphene oxide based hydrogel electrodes for high performance supercapacitors. <i>Journal of Energy Storage</i> , 2021, 39, 102658.	8.1	17
1087	N-Dopant-Mediated Growth of Metal Oxide Nanoparticles on Carbon Nanotubes. <i>Nanomaterials</i> , 2021, 11, 1882.	4.1	1
1088	Construction of Heptagon-Containing Molecular Nanocarbons. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 23508-23532.	13.8	118
1089	Sulfur-doping effects on the supercapacitive behavior of porous spherical graphene electrode derived from layered double hydroxide template. <i>Applied Surface Science</i> , 2021, 558, 149867.	6.1	19
1090	Achieving Selective and Efficient Electrocatalytic Activity for CO ₂ Reduction on N-Doped Graphene. <i>Frontiers in Chemistry</i> , 2021, 9, 734460.	3.6	9
1091	Analyses and insights into 2D crystallite architected membrane electrode assemblies for polymer electrolyte fuel cells. <i>Chemical Engineering Journal</i> , 2021, 417, 129280.	12.7	6
1092	High-Energy SWCNT Cathode for Aqueous Al-ion Battery Boosted by Multi-ion Intercalation Chemistry. <i>Advanced Energy Materials</i> , 2021, 11, 2101514.	19.5	23
1093	Single Indium Atoms and Few-Atom Indium Clusters Anchored onto Graphene via Silicon Heteroatoms. <i>ACS Nano</i> , 2021, 15, 14373-14383.	14.6	19

#	ARTICLE	IF	CITATIONS
1094	Nitrogen-enriched graphene framework from a large-scale magnesiothermic conversion of CO ₂ with synergistic kinetics for high-power lithium-ion capacitors. NPG Asia Materials, 2021, 13, .	7.9	29
1095	Porous carbon prepared by zeolitic imidazolate framework ($ZIF-7$) as the precursor for supercapacitor applications in different electrolytes. International Journal of Energy Research, 2022, 46, 795-809.	4.5	15
1096	Design and synthesis of amine functionalized graphene oxide for enhanced fluoride removal. Journal of Environmental Chemical Engineering, 2021, 9, 105384.	6.7	24
1097	A phosphorus integrated strategy for supercapacitor: 2D black phosphorus-doped and phosphorus-doped materials. Materials Today Chemistry, 2021, 21, 100480.	3.5	18
1098	2D Organic Radical Conjugated Skeletons with Paramagnetic Behaviors. Advanced Materials Interfaces, 2021, 8, 2100943.	3.7	3
1099	Carbon nanotube-based titanium and zirconium-doped [N_4] type ORR catalysts. First principle study. International Journal of Quantum Chemistry, 2021, 121, e26809.	2.0	5
1100	Tailoring the Structural and Electronic Properties of Graphene through Ion Implantation. Materials, 2021, 14, 5080.	2.9	3
1101	Waste Tire Heat Treatment to Prepare Sulfur Self-Doped Char: Operando Insight into Activation Mechanisms Based on the Char Structures Evolution. Processes, 2021, 9, 1622.	2.8	1
1102	Unraveling the electronic properties of graphene with substitutional oxygen. 2D Materials, 2021, 8, 045035.	4.4	9
1103	Nitrogen-doped graphene based triboelectric nanogenerators. Nano Energy, 2021, 87, 106173.	16.0	30
1104	$ZnIn_2S_4$ -Based Photocatalysts for Energy and Environmental Applications. Small Methods, 2021, 5, e2100887.	8.6	153
1105	Heteroatom doping of 2D graphene materials for electromagnetic interference shielding: a review of recent progress. Critical Reviews in Solid State and Materials Sciences, 2022, 47, 570-619.	12.3	68
1106	Potassium Humate Carbon Derived from Chlorination Roast Quenching of Municipal Sludge for High-performance Supercapacitor Electrodes. Chemical Engineering Journal, 2021, 421, 129993.	12.7	21
1107	Dual heteroatoms co-doping strategy of graphene-based dielectric loss electromagnetic absorbent. Applied Surface Science, 2021, 564, 150380.	6.1	20
1108	In-situ redox-active hybrid graphene platform for label-free electrochemical biosensor: Insights from electrodeposition and electroless deposition. TrAC - Trends in Analytical Chemistry, 2021, 143, 116413.	11.4	22
1109	High-efficiency water purification for methyl orange and lead(II) by eco-friendly magnetic sulfur-doped graphene-like carbon-supported layered double oxide. Journal of Hazardous Materials, 2021, 419, 126406.	12.4	22
1110	A hybrid yellow nanopigment as an environmentally sound alternative to lead chromate pigment for pavement markings. Journal of Cleaner Production, 2021, 319, 128733.	9.3	9
1111	Highly active iron-nitrogen-boron-carbon bifunctional electrocatalytic platform for hydrogen peroxide sensing and oxygen reduction. Environmental Research, 2021, 201, 111563.	7.5	22

#	ARTICLE	IF	CITATIONS
1112	Improvement in potassium ion batteries electrodes: Recent developments and efficient approaches. Journal of Energy Chemistry, 2021, 62, 307-337.	12.9	73
1113	Controllable functionalization of g-C ₃ N ₄ mediated all-solid-state (ASS) Z-scheme photocatalysts towards sustainable energy and environmental applications. Environmental Technology and Innovation, 2021, 24, 101972.	6.1	12
1114	Functional group tuning of two-dimensional carbon nanosheets for boosting oxygen reduction electrocatalysis. Carbon, 2021, 185, 395-403.	10.3	10
1115	Progress and challenges in using sustainable carbon anodes in rechargeable metal-ion batteries. Progress in Energy and Combustion Science, 2021, 87, 100929.	31.2	52
1116	Mechanochemistry-driven prelinking enables ultrahigh nitrogen-doping in carbon materials for triiodide reduction. Nano Energy, 2021, 89, 106332.	16.0	10
1117	Understanding the impact of nitrogen doping and/or amine functionalization of reduced graphene oxide via hydrothermal routes for supercapacitor applications. Electrochimica Acta, 2021, 397, 139241.	5.2	9
1118	Review on the corrosion-promotion activity of graphene and its inhibition. Journal of Materials Science and Technology, 2021, 91, 278-306.	10.7	35
1119	Beyond flexible-Li-ion battery systems for soft electronics. Energy Storage Materials, 2021, 42, 773-785.	18.0	33
1120	Main group metal elements for ambient-condition electrochemical nitrogen reduction. Journal of Energy Chemistry, 2021, 62, 51-70.	12.9	70
1121	Advanced opportunities and insights on the influence of nitrogen incorporation on the physico/electro-chemical properties of robust electrocatalysts for electrocatalytic energy conversion. Coordination Chemistry Reviews, 2021, 449, 214209.	18.8	28
1122	A temperature-dependent phosphorus doping on Ti3C2Tx MXene for enhanced supercapacitance. Journal of Colloid and Interface Science, 2021, 604, 239-247.	9.4	30
1123	Electronic and magnetic properties of homonuclear and heteronuclear transition metal pairs in graphene. Applied Surface Science, 2021, 569, 150999.	6.1	4
1124	Paracetamol degradation via electrocatalysis with B and N co-doped reduced graphene oxide: Insight into the mechanism on catalyst surface and in solution. Chemosphere, 2022, 287, 132070.	8.2	14
1125	One step synthesis of N, P co-doped hierarchical porous carbon nanosheets derived from pomelo peel for high performance supercapacitors. Journal of Colloid and Interface Science, 2022, 605, 71-81.	9.4	63
1126	Al-doped Co9S8 encapsulated by nitrogen-doped graphene for solid-state asymmetric supercapacitors. Chemical Engineering Journal, 2022, 428, 132470.	12.7	74
1127	Nitrogen and boron co-doped densified laser-induced graphene for supercapacitor applications. Chemical Engineering Journal, 2022, 428, 131119.	12.7	64
1128	P,N co-doped biomass carbon as a remarkable metal-free catalyst for solvent-free oxidation of benzyl alcohol with ambient air: The key promoting role of N co-doping. Applied Surface Science, 2022, 571, 151409.	6.1	9
1129	Reinforcement of polystyrene using edge-styrene graphitic nanoplatelets. Journal of Materials Research and Technology, 2021, 10, 662-670.	5.8	14

#	ARTICLE	IF	CITATIONS
1130	Electrochemical sensor for rutin detection based on N-doped mesoporous carbon nanospheres and graphene. New Journal of Chemistry, 2021, 45, 4986-4993.	2.8	17
1131	Platinum-complexed phosphorous-doped carbon nitride for electrocatalytic hydrogen evolution. Journal of Materials Chemistry A, 2022, 10, 5962-5970.	10.3	18
1132	Rational catalyst design for oxygen evolution under acidic conditions: strategies toward enhanced electrocatalytic performance. Journal of Materials Chemistry A, 2021, 9, 5890-5914.	10.3	65
1133	Hydrothermal synthesis of biocompatible nitrogen doped graphene quantum dots. Energy and Environment, 2021, 32, 1170-1182.	4.6	11
1134	Nanoscale anodes for rechargeable batteries: Fundamentals and design principles. , 2021, , 91-157.		2
1135	Hetero Atom Doped Graphene Nanoarchitectonics as Electrocatalysts Towards the Oxygen Reduction and Evolution Reactions in Acidic Medium. Journal of Inorganic and Organometallic Polymers and Materials, 2021, 31, 1859-1876.	3.7	15
1136	Synthesis of Z-scheme cobalt porphyrin/nitrogen-doped graphene quantum dot heterojunctions for efficient molecule-based photocatalytic oxygen evolution. Journal of Materials Chemistry A, 2021, 9, 2404-2413.	10.3	19
1137	Hybrid Nanocomposites Based on Graphene and Its Derivatives: From Preparation to Applications. Composites Science and Technology, 2021, , 261-281.	0.6	9
1138	Chloride Corrosion Resistant Nitrogen doped Reduced Graphene Oxide/Platinum Electrocatalyst for Hydrogen Evolution Reaction in an Acidic Medium. ChemistrySelect, 2020, 5, 1739-1750.	1.5	3
1139	Room Temperature Gas Sensor Based on Reduce Graphene Oxide for Environmental Monitoring. , 2020, , 1-19.		1
1140	Anode Materials, SEI, Carbon, Graphite, Conductivity, Graphene, Reversible, Formation. , 2019, , 1-71.		6
1141	Synthesis of Quantum Dots. , 2020, , 13-29.		1
1142	Sulfur-doped graphene aerogels reinforced with carbon fibers as electrode materials. Journal of Materials Science, 2020, 55, 9676-9685.	3.7	7
1143	Direct electrochemical N-doping to carbon paper in molten LiCl-KCl-Li3N. International Journal of Minerals, Metallurgy and Materials, 2020, 27, 1687-1694.	4.9	12
1144	Nanoengineered textiles: from advanced functional nanomaterials to groundbreaking high-performance clothing. , 2020, , 611-714.		11
1145	Metal-free electrocatalysts for nitrogen reduction reaction. EnergyChem, 2020, 2, 100040.	19.1	34
1146	Upgrading agricultural biomass for sustainable energy storage: Bioprocessing, electrochemistry, mechanism. Energy Storage Materials, 2020, 31, 274-309.	18.0	38
1147	Theoretical Density Functional Theory Study of Electrocatalytic Activity of MN ₄ -Doped (M = Cu, Ag,) Tj ETQq1 1 0.784314 rgBJ /Over	3.5	12

#	ARTICLE	IF	CITATIONS
1148	Chapter 10. Hybrid Materials Based on Pillararenes. Monographs in Supramolecular Chemistry, 2015, , 229-262.	0.2	2
1149	Flexible metal–gas batteries: a potential option for next-generation power accessories for wearable electronics. Energy and Environmental Science, 2020, 13, 1933-1970.	30.8	121
1150	Recent advancement in the electrocatalytic synthesis of ammonia. Nanoscale, 2020, 12, 8065-8094.	5.6	37
1151	Epitaxial graphene growth on FIB patterned 3C-SiC nanostructures on Si (111): reducing milling damage. Nanotechnology, 2017, 28, 345602.	2.6	9
1152	Graphene-supported single-atom catalysts and applications in electrocatalysis. Nanotechnology, 2021, 32, 032001.	2.6	33
1153	Graphene and Graphene-Like Materials for Hydrogen Energy. Nanotechnologies in Russia, 2020, 15, 273-300.	0.7	37
1154	One-step synthesis of sulfur-incorporated graphene quantum dots using pulsed laser ablation for enhancing optical properties. Optics Express, 2020, 28, 21659.	3.4	36
1155	An Electrochemical Hydroquinone Sensor with Nitrogen-Doped Graphene Modified Electrode. International Journal of Electrochemical Science, 0, , 7139-7149.	1.3	12
1156	Heteroatom Doped Multi-Layered Graphene Material for Hydrogen Storage Application. Graphene, 2016, 05, 39-50.	1.0	30
1157	A facile green and one-pot synthesis of grape seed-derived carbon quantum dots as a fluorescence probe for Cu(II) and ascorbic acid. RSC Advances, 2021, 11, 34107-34116.	3.6	13
1158	A Modular Cascade Synthetic Strategy Toward Structurally Constrained Boron-Doped Polycyclic Aromatic Hydrocarbons. Angewandte Chemie, 2021, 133, 25899.	2.0	6
1159	A Modular Cascade Synthetic Strategy Toward Structurally Constrained Boron-Doped Polycyclic Aromatic Hydrocarbons. Angewandte Chemie - International Edition, 2021, 60, 25695-25700.	13.8	20
1160	Novel Synthetic Approach to Heteroatom Doped Polycyclic Aromatic Hydrocarbons: Optimizing the Bottom-Up Approach to Atomically Precise Doped Nanographenes. Molecules, 2021, 26, 6306.	3.8	11
1161	Regiochemically Oxo-functionalized Graphene, Guided by Defect Sites, as Catalyst for Oxygen Reduction to Hydrogen Peroxide. Journal of Physical Chemistry Letters, 2021, 12, 10009-10014.	4.6	9
1162	Periodic Trends behind the Stability of Metal Catalysts Supported on Graphene with Graphitic Nitrogen Defects. ACS Omega, 2021, 6, 28215-28228.	3.5	5
1163	Graphene-based interlayer for high-performance lithium–sulfur batteries: A review. Materials and Design, 2021, 211, 110171.	7.0	52
1164	Theoretical study of the adsorption of lithium, sodium and potassium on pyridine. Chemical Physics Letters, 2021, 784, 139112.	2.6	2
1165	Photo-sonodynamic combination activity of cationic morpholino-phthalocyanines conjugated to nitrogen and nitrogen-sulfur doped graphene quantum dots against MCF-7 breast cancer cell line in vitro. Photodiagnosis and Photodynamic Therapy, 2021, 36, 102573.	2.6	11

#	ARTICLE	IF	CITATIONS
1166	Synthesis of Graphene Using Polystyrene and the Effect of Boron Oxide on the Synthesis of Graphene. Korean Journal of Materials Research, 2018, 28, 279-285.	0.2	0
1167	Electronic Structures of Graphene and Silicene Having Several Kinds of Imperfections such as Atomic Vacancies and Heteroatoms Replacement. Journal of Computer Chemistry Japan, 2019, 18, 176-186.	0.1	0
1168	Aerobic Oxidations Using Metal-free Heterogeneous Systems. RSC Catalysis Series, 2020, , 78-103.	0.1	0
1169	Tuning metal catalysts via nitrogen-doped nanocarbons for energy chemistry: From metal nanoparticles to single metal sites. EnergyChem, 2021, 3, 100066.	19.1	31
1170	Nano/micro-scaled materials based optical biosensing of glucose. Ceramics International, 2021, , .	4.8	9
1171	Construction of heteroatom-doped and three-dimensional graphene materials for the applications in supercapacitors: A review. Journal of Energy Storage, 2021, 44, 103437.	8.1	93
1172	Syntheses Approach of 2-D Oxide Family of Graphene for Supercapacitor Application (A-Review). Oriental Journal of Chemistry, 2020, 36, 1016-1025.	0.3	0
1173	Electrocatalytic degradation of acetaminophen by fluorine-doped graphene oxide: Efficiency and mechanism under constant current and pulse current supply. Journal of Physics and Chemistry of Solids, 2022, 161, 110443.	4.0	12
1174	Boron-doped graphene anode coupled with microporous activated carbon cathode for lithium-ion ultracapacitors. Chemical Engineering Journal, 2022, 430, 132835.	12.7	28
1175	3D carbonized wood-based integrated electrochemical immunosensor for ultrasensitive detection of prolactin antigen. Talanta, 2022, 238, 122991.	5.5	7
1176	2D structures for CO ₂ utilization. , 2020, , 47-58.		1
1177	Graphene-derived Materials for Metal-free Carbocatalysis of Organic Reactions. Acta Chimica Sinica, 2021, 79, 1360.	1.4	3
1178	Nitrogen, boron-doped Ti ₃ C ₂ MXene quantum dot-based ratiometric fluorescence sensing platform for point-of-care testing of tetracycline using an enhanced antenna effect by Eu ³⁺ . Mikrochimica Acta, 2021, 188, 401.	5.0	24
1179	Atom Doping Engineering of Metal/Carbon Catalysts for Biomass Hydrodeoxygenation. ACS Sustainable Chemistry and Engineering, 2021, 9, 16531-16555.	6.7	27
1180	Surface Characterization of Low Energy Si Ion Implanted Graphene. Applied Surface Science, 2021, 576, 151816.	6.1	2
1181	Nitrogen and phosphorous Co-Doped Laser-Induced Graphene: A High-Performance electrode material for supercapacitor applications. Applied Surface Science, 2022, 576, 151714.	6.1	26
1182	C F bonding in fluorinated N-Doped carbons. Applied Surface Science, 2022, 577, 151721.	6.1	19
1183	First-principle study on electronic and optical properties of (Al, P, Al-P) doped graphene. Materials Research Express, 2020, 7, 105013.	1.6	2

#	ARTICLE	IF	CITATIONS
1184	Constructing 3D interweaved MXene/graphitic carbon nitride nanosheets/graphene nanoarchitectures for promoted electrocatalytic hydrogen evolution. Journal of Energy Chemistry, 2022, 67, 483-491.	12.9	86
1185	Understanding the role of lithium bonds in doped graphene nanoribbons as cathode hosts for Li-ion batteries: A first-principles study. International Journal of Energy Research, 2022, 46, 4405-4416.	4.5	8
1186	Nitrogen and sulfur co-doped Nb ₂ C-MXene nanosheets for the ultrasensitive electrochemical detection dopamine under acidic conditions in gastric juice. Journal of Electroanalytical Chemistry, 2022, 904, 115849.	3.8	25
1187	Platinum Crosslinked Carbon Dot@TiO ₂ p-n Junctions for Relapse-free Sonodynamic Tumor Eradication via High-yield ROS and GSH Depletion. Small, 2022, 18, e2103528.	10.0	61
1188	Carbon nanomaterials as emerging nanotherapeutic platforms to tackle the rising tide of cancer – A review. Bioorganic and Medicinal Chemistry, 2021, 51, 116493.	3.0	10
1189	Production of chlorine-containing functional group doped graphene powders using Yucel's method as anode materials for Li-ion batteries. RSC Advances, 2021, 11, 40059-40071.	3.6	10
1190	N-doped graphene quantum dots from graphene oxide and dendrimer and application in photothermal therapy: An experimental and theoretical study. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 636, 128066.	4.7	10
1191	Non-precious metal activated MoSi ₂ N ₄ monolayers for high-performance OER and ORR electrocatalysts: A first-principles study. Applied Surface Science, 2022, 579, 152234.	6.1	36
1192	Excitation-independent and fluorescence-reversible N-GQD for picomolar detection of inhibitory neurotransmitter in milk samples – an alleyway for possible neuromorphic computing application. Talanta, 2022, 239, 123132.	5.5	8
1193	Electrochemical sensor based on cobalt ruthenium sulfide nanoparticles embedded on boron nitrogen co-doped reduced graphene oxide for the determination of nitrite. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 637, 128271.	4.7	20
1194	C3Al: A tunable bandgap semiconductor with high electron mobility and negative Poisson's ratio. Physica E: Low-Dimensional Systems and Nanostructures, 2022, 138, 115082.	2.7	6
1195	Surface Van Hove Singularity Enabled Efficient Catalysis in Low-Dimensional Systems: CO Oxidation and Hydrogen Evolution Reactions. Journal of Physical Chemistry Letters, 2022, 13, 740-746.	4.6	10
1197	Heteroatom-doped graphene-based electrocatalysts for ORR, OER, and HER. , 2022, , 145-168.		1
1198	Sublayer-enhanced atomic sites of single atom catalysts through <i>in situ</i> atomization of metal oxide nanoparticles. Energy and Environmental Science, 2022, 15, 1183-1191.	30.8	25
1199	Charge transfer of carbon nanomaterials for efficient metal-free electrocatalysis. , 2022, 1, 28-50.		72
1200	Nanosized copper stabilized on ternary P, N, S-doped graphene from chitosan shellfish waste: preparation and catalysis of single and double A ₃ -type amine coupling. Materials Today Sustainability, 2022, 18, 100109.	4.1	4
1201	Recent advances on graphene-based materials as cathode materials in lithium-sulfur batteries. International Journal of Hydrogen Energy, 2022, 47, 8630-8657.	7.1	21
1202	Integration of partially phosphatized bimetal centers into trifunctional catalyst for high-performance hydrogen production and flexible Zn-air battery. Science China Materials, 2022, 65, 1176-1186.	6.3	44

#	ARTICLE	IF	CITATIONS
1203	3D hierarchical core-shell spiny globe shaped $\text{Co}_2\text{P@Ni}_2\text{P/NiCo}_2\text{O}_4\text{@CoO}$ for asymmetric supercapacitors. Journal of Materials Chemistry A, 2022, 10, 3710-3721.	10.3	27
1204	Emerging 2D Materials for Electrocatalytic Applications: Synthesis, Multifaceted Nanostructures, and Catalytic Center Design. Small, 2022, 18, e2105831.	10.0	31
1205	Non-covalent interactions of graphene surface: Mechanisms and applications. Chem, 2022, 8, 947-979.	11.7	29
1206	MXenes with applications in supercapacitors and secondary batteries: A comprehensive review. Materials Reports Energy, 2022, 2, 100080.	3.2	19
1207	A novel Pd-Fe ₃ O ₄ /PEDOT:PSS/nitrogen and sulfur doped-Ti ₃ C ₂ T _x frameworks as highly sensitive sensing platform toward parathion-methyl residue in nature. Electrochimica Acta, 2022, 407, 139897.	5.2	6
1208	Study on preparation methodology of zero-valent iron decorated on graphene oxide for highly efficient sonocatalytic dye degradation. Journal of Environmental Chemical Engineering, 2022, 10, 107214.	6.7	7
1209	Synthesis of Distorted Nitrogen-Doped Nanographenes by Partially Oxidative Cyclodehydrogenation Reaction. Chemistry - an Asian Journal, 2022, 17, .	3.3	1
1210	New prospects on solvothermal carbonisation assisted by organic solvents, ionic liquids and eutectic mixtures – A critical review. Progress in Materials Science, 2022, 126, 100932.	32.8	18
1211	Magnetic Interactions Between Radical Pairs in Chiral Graphene Nanoribbons. Nano Letters, 2022, 22, 164-171.	9.1	29
1212	Preparation of Dual-Doped N/P Two-Dimensional Porous Carbon Nanosheets for High-Performance Alkaline Supercapacitors. ACS Applied Energy Materials, 2022, 5, 137-148.	5.1	11
1213	Optimized nano-metal particles filled into carbon nanohorns to achieve high N-doping amount and high porosity for enhanced oxygen evolution reaction. RSC Advances, 2022, 12, 11032-11038.	3.6	1
1214	Tuning the Activity and Selectivity of Nitrogen Reduction Reaction on Double-Atom Catalysts by B Doping: A Density Functional Theory Study. SSRN Electronic Journal, 0, , .	0.4	0
1215	Dimensional optimization enables high-performance capacitive deionization. Journal of Materials Chemistry A, 2022, 10, 6414-6441.	10.3	43
1217	Na Adsorption on Para Boron-Doped AGNR for Sodium-Ion Batteries (SIBs): A First Principles Analysis. Journal of Electronic Materials, 2022, 51, 2095-2106.	2.2	9
1218	Unravelling the origin of the capacitance in nanostructured nitrogen-doped carbon - NiO hybrid electrodes deposited with laser. Ceramics International, 2022, 48, 15877-15888.	4.8	2
1219	Improved performance of poly(styrene-co-butadiene) using butadiene graphitic nanoplatelets. Journal of Applied Polymer Science, 2022, 139, .	2.6	2
1220	Tuning the Defects of Two-Dimensional Layered Carbon/TiO ₂ Superlattice Composite for a Fast Lithium-Ion Storage. Materials, 2022, 15, 1625.	2.9	4
1221	Current advances in perovskite oxides supported on graphene-based materials as interfacial layers of perovskite solar cells. Critical Reviews in Solid State and Materials Sciences, 2023, 48, 112-131.	12.3	7

#	ARTICLE	IF	CITATIONS
1222	Passivation of Transition Metal Dichalcogenides Monolayers with a Surface-Confined Atomically Thick Sulfur Layer. <i>Small Structures</i> , 2022, 3, .	12.0	2
1223	Aza-Triangulene: On-Surface Synthesis and Electronic and Magnetic Properties. <i>Journal of the American Chemical Society</i> , 2022, 144, 4522-4529.	13.7	49
1224	Nitrogenated Graphene Oxide-Decorated Metal Sulfides for Better Antifouling and Dye Removal. <i>ACS Omega</i> , 2022, 7, 9674-9683.	3.5	8
1225	Chemical vapor deposition-grown nitrogen-doped graphene's synthesis, characterization and applications. <i>Npj 2D Materials and Applications</i> , 2022, 6, .	7.9	29
1226	Nitrogen-doped pyrogenic carbonaceous matter facilitates azo dye decolorization by sulfide: The important role of graphitic nitrogen. <i>Chinese Chemical Letters</i> , 2023, 34, 107326.	9.0	2
1227	MXenes Quantum Dots for Biomedical Applications: Recent Advances and Challenges. <i>Chemical Record</i> , 2022, 22, e202200019.	5.8	7
1228	Effective Approaches for Designing Stable N _x /C Oxygen-Reduction Catalysts for Proton-Exchange-Membrane Fuel Cells. <i>Advanced Materials</i> , 2022, 34, e2200595.	21.0	38
1229	Hydrothermal-Assisted In Situ Growth of Vertically Aligned MoS ₂ Nanosheets on Reduced Graphene Oxide Fiber Fabrics toward High-Performance Flexible Supercapacitors. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 3840-3849.	3.7	9
1230	S-doped carbon materials: Synthesis, properties and applications. <i>Carbon</i> , 2022, 195, 328-340.	10.3	55
1231	b- <i>g</i> -magnetism and spin-dependent transport in boron pair doped armchair graphene nanoribbons. <i>Applied Physics Letters</i> , 2022, 120, .	3.3	10
1232	Neohexene graphitic nanoplatelets for reinforced low-density polyethylene. <i>Journal of Polymer Research</i> , 2022, 29, 1.	2.4	3
1233	Heteroatom-Doped Flash Graphene. <i>ACS Nano</i> , 2022, 16, 6646-6656.	14.6	46
1234	A comprehensive review on the thermal, electrical, and mechanical properties of graphene-based multi-functional epoxy composites. <i>Advanced Composites and Hybrid Materials</i> , 2022, 5, 547-605.	21.1	54
1235	Effect of N, P co-doped activated carbon supported Cu-based catalyst for acetylene hydration. <i>Molecular Catalysis</i> , 2022, 522, 112223.	2.0	0
1236	Graphene-based macromolecular assemblies as high-performance absorbents for oil and chemical spills response and cleanup. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107586.	6.7	3
1237	Improving the air quality with Functionalized Carbon Nanotubes: Sensing and remediation applications in the real world. <i>Chemosphere</i> , 2022, 299, 134468.	8.2	18
1238	A novel electrochemical sensor based on thermally reduced graphene oxide for the sensitive determination of dopamine. <i>Applied Surface Science</i> , 2022, 592, 153257.	6.1	28
1239	B- and N-doped carbon dots by one-step microwave hydrothermal synthesis: tracking yeast status and imaging mechanism. <i>Journal of Nanobiotechnology</i> , 2021, 19, 456.	9.1	15

#	ARTICLE	IF	CITATIONS
1240	Chemical modification of ordered/disordered carbon nanostructures for metal hosts and electrocatalysts of Li^+ batteries. <i>Information Materials</i> , 2022, 4, .	17.3	25
1241	Designing Self-Supported Electrocatalysts for Electrochemical Water Splitting: Surface/Interface Engineering toward Enhanced Electrocatalytic Performance. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 59593-59617.	8.0	58
1242	Si doped T-graphene: a 2D lattice as an anode electrode in Na ion secondary batteries. <i>New Journal of Chemistry</i> , 2022, 46, 9718-9726.	2.8	10
1243	Properties and applications of quantum dots derived from two-dimensional materials. <i>Advances in Physics: X</i> , 2022, 7, .	4.1	11
1244	P3HT-rGO composites for High-Performance Optoelectronic Devices. <i>Optical Materials</i> , 2022, 127, 112326.	3.6	12
1248	Selection of oxygen reduction catalysts for secondary tri-electrode zinc-air batteries. <i>Scientific Reports</i> , 2022, 12, 6696.	3.3	4
1249	CuS-PNIPAm nanoparticles with the ability to initiatively capture bacteria for photothermal treatment of infected skin. <i>International Journal of Energy Production and Management</i> , 2022, 9, .	3.7	5
1250	Direct Plasma-Enhanced Chemical Vapor Deposition Syntheses of Vertically Oriented Graphene Films on Functional Insulating Substrates for Wide-Range Applications. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	8
1251	The influence of heteroatom doping on the performance of carbon-based electrocatalysts for oxygen evolution reactions. <i>New Carbon Materials</i> , 2022, 37, 321-336.	6.1	16
1252	Nanopores of a Covalent Organic Framework: A Customizable Vessel for Organocatalysis. <i>ACS Omega</i> , 2022, 7, 15275-15295.	3.5	14
1253	Structural and Chemical Peculiarities of Nitrogen-Doped Graphene Grown Using Direct Microwave Plasma-Enhanced Chemical Vapor Deposition. <i>Coatings</i> , 2022, 12, 572.	2.6	0
1254	Beam-driven dynamics of aluminium dopants in graphene. <i>2D Materials</i> , 2022, 9, 035009.	4.4	8
1255	Electrochemical reduction of CO_2 at the earth-abundant transition metal-oxides/copper interfaces. <i>Catalysis Today</i> , 2023, 409, 53-62.	4.4	7
1256	Co-doping Graphene with B and N Heteroatoms for Application in Energy Conversion and Storage Devices. <i>ChemNanoMat</i> , 2022, 8, .	2.8	8
1257	Tuning the activity and selectivity of nitrogen reduction reaction on double-atom catalysts by B doping: A density functional theory study. <i>Nano Energy</i> , 2022, 99, 107363.	16.0	21
1258	An overview of nanomaterial-based novel disinfection technologies for harmful microorganisms: Mechanism, synthesis, devices and application. <i>Science of the Total Environment</i> , 2022, 837, 155720.	8.0	24
1259	Plasma-enabled synthesis and modification of advanced materials for electrochemical energy storage. <i>Energy Storage Materials</i> , 2022, 50, 161-185.	18.0	28
1260	Photoelectronic properties for heteroatom derivatives of graphdiyne monolayer sheet. <i>Journal of Physics and Chemistry of Solids</i> , 2022, 167, 110793.	4.0	0

#	ARTICLE	IF	CITATIONS
1261	Water electrolysis: from textbook knowledge to the latest scientific strategies and industrial developments. <i>Chemical Society Reviews</i> , 2022, 51, 4583-4762.	38.1	453
1263	Silicon doped graphene as high cycle performance anode for lithium-ion batteries. <i>Carbon</i> , 2022, 196, 633-638.	10.3	22
1264	Silver nanowire/graphene oxide electrode for electrochemical detection of lead ions. <i>Chemical Papers</i> , 0, , .	2.2	4
1265	A new approach to prepare N&Sdoted free&standing graphene oxides for vanadium redox flow battery. <i>International Journal of Energy Research</i> , 2022, 46, 19992-20003.	4.5	10
1266	Boron doped graphene as anode material for Mg ion battery: A DFT study. <i>Computational and Theoretical Chemistry</i> , 2022, 1214, 113757.	2.5	12
1267	Highly Active Semi-Ionic C-F Bonds from Fluorine Doped Photoreduced Graphene Oxide Photocatalyst for Removal of Volatile Organic Compounds. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
1268	Delocalized magnetism in low-dimensional graphene system. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2022, 71, 188101.	0.5	1
1269	NanoBioSensors: From Electrochemical Sensors Improvement to Theranostic Applications. , 0, , .		0
1270	Highly sensitive determination of paracetamol, uric acid, dopamine, and catechol based on flexible plastic electrochemical sensors. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 5917-5928.	3.7	6
1271	Solid-State Reaction Synthesis of Nanoscale Materials: Strategies and Applications. <i>Chemical Reviews</i> , 2022, 122, 12748-12863.	47.7	35
1272	Exploring the Role of Carbon-Based Nanomaterials in Microalgae for the Sustainable Production of Bioactive Compounds and Beyond. <i>ACS Omega</i> , 2022, 7, 22061-22072.	3.5	5
1273	Functionalization of Nanomaterials: Synthesis and Characterization. <i>ACS Symposium Series</i> , 0, , 1-26.	0.5	4
1274	S₂P₂C₁₂: A two-dimensional anisotropic Janus material with tunable Dirac cone. <i>Journal of Applied Physics</i> , 2022, 131, 224303.	2.5	1
1275	High-throughput screening of dual-atom doped PC6 electrocatalysts for efficient CO2 electrochemical reduction to CH4 by breaking scaling relations. <i>Electrochimica Acta</i> , 2022, 426, 140764.	5.2	13
1276	Visible active enhanced adsorptive performance of the green synthesized Sulphur and Nitrogen codoped reduced graphene Oxide towards Degradation of reactive blue 4. <i>Inorganic Chemistry Communication</i> , 2022, 142, 109636.	3.9	4
1277	Reaction mechanisms, recent progress and future prospects of tin selenide-based composites for alkali-metal-ion batteries. <i>Composites Part B: Engineering</i> , 2022, 242, 110045.	12.0	5
1278	Multi-scale self-templating synthesis strategy of lignin-derived hierarchical porous carbons toward high-performance zinc ion hybrid supercapacitors. <i>Journal of Energy Storage</i> , 2022, 53, 105095.	8.1	21
1279	Transfer- and lithography-free CVD of N-doped graphenic carbon thin films on non-metal substrates. <i>Materials Research Bulletin</i> , 2022, 154, 111943.	5.2	4

#	ARTICLE	IF	CITATIONS
1280	Overview of carbon dot synthesis. , 2022, , 39-68.		0
1281	Implementation of heteroatom-doped nanomaterial/coreâ€shell nanostructure based electrocatalysts for fuel cells and metal-ion/air/sulfur batteries. Materials Advances, 2022, 3, 6096-6124.	5.4	8
1282	Synergetic Mechanism of B, N Co-Doping for Boosting Carbon Materials Catalytic Performance. SSRN Electronic Journal, 0, , .	0.4	0
1283	N, P co-doped graphene enriched phosphorus as a highly efficient oxygen reduction catalyst. Journal of Electroanalytical Chemistry, 2022, 921, 116560.	3.8	9
1284	Doping of Graphene Films: Open the way to Applications in Electronics and Optoelectronics. Advanced Functional Materials, 2022, 32, .	14.9	21
1285	Research Progress on the Preparation and Applications of Laser-Induced Graphene Technology. Nanomaterials, 2022, 12, 2336.	4.1	24
1286	Carbon dots from eco-friendly precursors for optical sensing application: an up-to-date review. Chemical Papers, 2022, 76, 6097-6127.	2.2	19
1287	Effects of the Tc, Ru, Rh and Cd substitution doping on the structural, electronic, magnetic and optical properties of blue P monolayer. Thin Solid Films, 2022, 756, 139386.	1.8	2
1288	Heteroatom-Modified Carbon Materials and Their Use as Supports and Electrocatalysts in Proton Exchange Membrane Fuel Cells (A Review). Russian Journal of Electrochemistry, 2022, 58, 529-561.	0.9	1
1289	Development of cigarette filter with biomass-based activated carbon for naphthalene removal from mainstream smoke. , 2022, 1, 153-161.		3
1290	Preparation of sulfurâ€doped graphenes by Yucel's method and their corresponding polylactideâ€based nanocomposites. Journal of Applied Polymer Science, 2022, 139, .	2.6	2
1291	Sulfur-Doped Graphene-Activated Perdisulfate for Synergetic Destruction of Bisphenol A and Complex Microbial Flora. Catalysis Letters, 0, , .	2.6	0
1292	Carbon-based nanostructures as a versatile platform for tunable Î€-magnetism. Journal of Physics Condensed Matter, 2022, 34, 443001.	1.8	31
1293	Prediction of the ferroelastic and negative Poissonâ€™s ratio of a two-dimensional Î±-CaX (Xâ€=â€S, Se) monolayer. European Physical Journal Plus, 2022, 137, .	2.6	1
1294	Supramolecularâ€driven fabrication of porous nitrogen/sulfur coâ€doped graphene toward highâ€performance supercapacitor. International Journal of Energy Research, 2022, 46, 18624-18633.	4.5	2
1295	Synthesis and Characterization of Graphene Oxide and its Composites. ECS Journal of Solid State Science and Technology, 2022, 11, 081011.	1.8	0
1296	Treating waste tire to prepare high-yield sulfur-doped porous char via ZnCl ₂ â€KOH heat treatment method. Journal of Cleaner Production, 2022, 372, 133672.	9.3	4
1297	Well-dispersive Pt nanocrystals anchored onto 3D boron and nitrogen double-doped reduced graphene oxideâ€carbon nanotube frameworks as efficient electrocatalysts for methanol oxidation. Journal of Electroanalytical Chemistry, 2022, 921, 116705.	3.8	7

#	ARTICLE	IF	CITATIONS
1298	In-situ synthesis of phosphorus-doped graphene paper with adenosine triphosphate and its application for intelligent fire warning. Composites Part A: Applied Science and Manufacturing, 2022, 162, 107142.	7.6	10
1299	Microwave flash synthesis of phosphorus and sulphur ultradoped graphene. Chemical Engineering Journal, 2022, 450, 138447.	12.7	14
1300	Emerging electrocatalytic activities in transition metal selenides: synthesis, electronic modulation, and structure-performance correlations. Chemical Engineering Journal, 2023, 451, 138514.	12.7	28
1301	Potential of potassium and sodium-ion batteries as the future of energy storage: Recent progress in anodic materials. Journal of Energy Storage, 2022, 55, 105625.	8.1	30
1302	Unraveling the efficiency of heteroatom-doped graphene quantum dots incorporated MOF-derived bimetallic layered double hydroxide towards oxygen evolution reaction. Carbon, 2022, 200, 437-447.	10.3	13
1303	N-doped nonalternant aromatic belt <i>via</i> a six-fold annulative double N-arylation. Chemical Science, 2022, 13, 9947-9951.	7.4	11
1304	Nucleotide(s)-mediated simultaneous N, P co-doped reduced graphene oxide (N, P-rGO) porous nanohybrids as high-performance electrode materials for designing sustainable binder-free high-voltage (2.8 V) aqueous symmetric supercapacitors and electrochemical sensors. Sustainable Energy and Fuels, 2022, 6, 4169-4182.	4.9	1
1305	Aromatic heterobicycle-fused porphyrins: impact on aromaticity and excited state electron transfer leading to long-lived charge separation. Chemical Science, 2022, 13, 9880-9890.	7.4	4
1306	Atomic-Scale Carbon Framework Reconstruction Enables Record Nitrogen-Doping Up to 33.8 At% in Graphene Nanoribbon. SSRN Electronic Journal, 0, , .	0.4	0
1307	Development of heterogeneous photocatalysts <i>via</i> the covalent grafting of metal complexes on various solid supports. Chemical Communications, 2022, 58, 11354-11377.	4.1	12
1308	Promotion Effects of P and S for Catalytic Oxidation of Methacrolein to Methacrylic Acid Over Heteroatoms Doped Carbon Catalysts. SSRN Electronic Journal, 0, , .	0.4	0
1309	A sulfur-containing two-dimensional covalent organic framework with electrocatalytic hydrogen evolution in alkaline medium. CrystEngComm, 2022, 24, 7447-7453.	2.6	6
1310	Polymer hydrogel based quasi-solid-state sodium-ion supercapacitor with 2.5 V wide operating potential window and high energy density. Applied Surface Science, 2023, 607, 154990.	6.1	11
1311	Exploration of Chemical Space for Designing Functional Molecules Accounting for Geometric Stability. Journal of Physical Chemistry Letters, 2022, 13, 8620-8627.	4.6	3
1312	Effects of Graphitic and Pyridinic Nitrogen Defects on Transition Metal Nucleation and Nanoparticle Formation on N-Doped Carbon Supports: Implications for Catalysis. ACS Applied Nano Materials, 2022, 5, 14922-14933.	5.0	3
1313	Exploring of catalytic oxygen reduction reaction activity of lattice carbons of vanadium and niobium doped nitrogen codoped carbon nanotubes by density functional theory. International Journal of Quantum Chemistry, 2023, 123, .	2.0	2
1314	Molten Salt Self-Template Synthesis Strategy of Oxygen-Rich Porous Carbon Cathodes for Zinc Ion Hybrid Capacitors. ACS Applied Materials & Interfaces, 2022, 14, 43431-43441.	8.0	21
1315	Structural Manipulation of 3D Graphene-Based Macrostructures for Water Purification. Gels, 2022, 8, 622.	4.5	3

#	ARTICLE	IF	CITATIONS
1316	Nanochannel array modified three-dimensional graphene electrode for sensitive electrochemical detection of 2,4,6-trichlorophenol and prochloraz. <i>Frontiers in Chemistry</i> , 0, 10, .	3.6	19
1317	Fabrication of Nitrogen/Boron Highly Co-doped Graphene Electrode for Enhanced Electrochemical Performance. <i>ChemistrySelect</i> , 2022, 7, .	1.5	0
1318	Supercapacitor applications of novel phosphorus doped graphene-based electrodes. <i>Journal of Energy Storage</i> , 2022, 55, 105766.	8.1	21
1319	O ₃ -assisted low-temperature preparation of marginal S and graphitic N co-doped graphene oxide as high-performance electrocatalyst for bisphenol A degradation. <i>Diamond and Related Materials</i> , 2022, 130, 109412.	3.9	0
1320	Exploring 2D Energy Storage Materials: Advances in Structure, Synthesis, Optimization Strategies, and Applications for Monovalent and Multivalent Metal-Ion Hybrid Capacitors. <i>Small</i> , 2022, 18, .	10.0	29
1321	A Janus heteroatom-doped carbon electrocatalyst for hydrazine oxidation. <i>National Science Review</i> , 2023, 10, .	9.5	16
1322	Recent Progress of Carbon Dots for Air Pollutants Detection and Photocatalytic Removal: Synthesis, Modifications, and Applications. <i>Small</i> , 2022, 18, .	10.0	8
1323	Metal single atom doped 2D materials for photocatalysis: current status and future perspectives. <i>Progress in Energy</i> , 2023, 5, 012001.	10.9	9
1324	Graphene-Based Metal-Organic Framework Hybrids for Applications in Catalysis, Environmental, and Energy Technologies. <i>Chemical Reviews</i> , 2022, 122, 17241-17338.	47.7	81
1325	High-performance flexible electrothermal Joule heaters from laser reduced F-N Co-doped graphene oxide with extended Sp ² networks. <i>FlatChem</i> , 2022, 36, 100437.	5.6	6
1326	Lignin-derived carbon quantum dots/Ni-MOL heterojunction from red phosphorus-assisted ball milling pretreatment and their application in photocatalysis: An insight from experiment and DFT calculation. <i>Industrial Crops and Products</i> , 2022, 189, 115829.	5.2	4
1327	Photo-dynamics in 2D materials: Processes, tunability and device applications. <i>Physics Reports</i> , 2022, 993, 1-70.	25.6	4
1328	A novel one-step method to prepare N, S Co-doped sub-fluorinated carbon electrode materials for ultrahigh-rate lithium-fluorinated carbon battery. <i>Journal of Power Sources</i> , 2022, 551, 232188.	7.8	9
1329	New electrode material integrates silver nanoprisms with phosphorus-doped carbon nanotubes for forensic detection of nitrite. <i>Electrochimica Acta</i> , 2022, 436, 141439.	5.2	5
1330	Flexible and stretchable transparent conductive graphene-based electrodes for emerging wearable electronics. <i>Carbon</i> , 2023, 202, 495-527.	10.3	54
1331	General Doping Chemistry of Carbon Materials. <i>ChemNanoMat</i> , 2023, 9, .	2.8	4
1332	Biodiesel production from wet microalgae: Progress and challenges. <i>Algal Research</i> , 2022, 68, 102902.	4.6	20
1333	Preparation and photocatalytic property of exfoliated poly(phenylenethiazolo[5,4-d]thiazole) copolymers. <i>Journal of Materials Science</i> , 0, , .	3.7	0

#	ARTICLE	IF	CITATIONS
1334	Cobalt-based multicomponent nanoparticles supported on N-doped graphene as advanced cathodic catalyst for zinc-air batteries. International Journal of Minerals, Metallurgy and Materials, 2022, 29, 2212-2220.	4.9	12
1335	Advances in Graphene-Supported Single-Atom Catalysts for Clean Energy Conversion. Electrochemical Energy Reviews, 2022, 5, .	25.5	17
1336	Nonlinearity-Tuned Optical Spin-Orbit Interaction of Graphene-Wrapped Nanoparticles. IEEE Photonics Journal, 2022, 14, 1-5.	2.0	0
1338	Doable production of highly fluorescent, heteroatom-doped graphene material from fuel coke for cellular bioimaging: An eco-sustainable cradle-to-gate approach. Journal of Cleaner Production, 2023, 383, 135541.	9.3	1
1339	Enhanced stability of sub-nanometric iridium decorated graphitic carbon nitride for H ₂ production upon hydrous hydrazine decomposition. Physical Chemistry Chemical Physics, 2023, 25, 1081-1095.	2.8	2
1340	Synthesis of fluorescent poly(silyl indole)s <i>via</i> borane-catalyzed C-H silylation of indoles. Polymer Chemistry, 2023, 14, 492-499.	3.9	3
1341	Nitrogen-doped polycyclic aromatic hydrocarbons by a one-pot Suzuki coupling/intramolecular S _N Ar reaction. Chemical Science, 2023, 14, 284-290.	7.4	14
1342	Thermodynamic mechanism of controllable growth of two-dimensional uniformly ordered boron-doped graphene. Nanoscale Horizons, 2023, 8, 346-352.	8.0	2
1343	Manganese-based coordination framework derived manganese sulfide nanoparticles integrated with carbon sheets for application in supercapacitor. Advanced Powder Technology, 2023, 34, 103838.	4.1	5
1344	Nitrogen-doped carbon dots as visible light initiators for 3D (bio)printing. Polymer Chemistry, 2023, 14, 268-276.	3.9	4
1345	Facile template-free synthesis of 3D cluster-like nitrogen-doped mesoporous carbon as metal-free catalyst for selective oxidation of H ₂ S. Journal of Environmental Chemical Engineering, 2023, 11, 109095.	6.7	7
1346	The enhanced mechanism of Fe(III)/H ₂ O ₂ system by N, S-doped mesoporous nanocarbon for the degradation of sulfamethoxazole. Separation and Purification Technology, 2023, 308, 122900.	7.9	8
1347	Nitrogenous MOFs and their composites as high-performance electrode material for supercapacitors: Recent advances and perspectives. Coordination Chemistry Reviews, 2023, 478, 214967.	18.8	17
1348	Electronic structures of defects in bottom-up N-doped graphene nanoribbons: Experiment and theory. Applied Surface Science, 2023, 612, 155874.	6.1	0
1349	Facile and controllable preparation of carbon microsphere for electro-driven nitrogen reduction: Accommodating nitrogen doping with hierarchical porous structure. Journal of Colloid and Interface Science, 2023, 634, 995-1004.	9.4	0
1350	Heteroatoms-Doped Carbon Nanotubes for Energy Applications. , 2022, , 485-523.		0
1351	Tuning low-temperature CO oxidation activities <i>via</i> N-doping on graphene-supported three-coordinated nickel single-atom catalysts. Physical Chemistry Chemical Physics, 2022, 24, 29586-29593.	2.8	1
1352	Ab-initio characterization of iron-embedded nitrogen-doped graphene as a toxic gas sensor. Journal of Computational Electronics, 0, , .	2.5	1

#	ARTICLE	IF	CITATIONS
1353	Novel and Highly Sensitive Electrochemical Sensor for the Determination of Oxytetracycline Based on Fluorine-Doped Activated Carbon and Hydrophobic Deep Eutectic Solvents. ACS Omega, 2022, 7, 45654-45664.	3.5	4
1354	Enhanced Acetaminophen Electrochemical Sensing Based on Nitrogen-Doped Graphene. International Journal of Molecular Sciences, 2022, 23, 14866.	4.1	5
1355	Template Directed Synthesis of Boron Carbon Nitride Nanotubes (BCN@CNTs) and Their Evaluation for Energy Storage Properties. Advanced Materials Interfaces, 2023, 10, .	3.7	6
1356	Identifying the Active Sites of Heteroatom Graphene as a Conductive Membrane for the Electrochemical Filtration of Organic Contaminants. International Journal of Molecular Sciences, 2022, 23, 14967.	4.1	2
1357	Recent trends in analysis of mycotoxins in food using carbon-based nanomaterials. Journal of Food and Drug Analysis, 2022, 30, 562-589.	1.9	4
1358	Graphene-incorporated Dopamine-Modified Fe ₂ O ₃ Nanorings as Anode for High-performance Lithium Battery. International Journal of Electrochemical Science, 2022, 17, 221210.	1.3	1
1359	Anti-Biofouling Electrochemical Sensor Based on the Binary Nanocomposite of Silica Nanochannel Array and Graphene for Doxorubicin Detection in Human Serum and Urine Samples. Molecules, 2022, 27, 8640.	3.8	16
1360	Heteroatom Codoped Graphene: The Importance of Nitrogen. ACS Omega, 2022, 7, 45935-45961.	3.5	10
1361	Rh(III)-Catalyzed Dual C-H Activation/Cascade Annulation of Benzimidates and CF ₃ -Imidoyl Sulfoxonium Ylides for the Synthesis of Trifluoromethyl-Decorated Benzo[1,8-naphthyridines. Organic Letters, 2022, 24, 8864-8869.	4.6	15
1362	Tuning the electrochemical behavior of graphene oxide and reduced graphene oxide via doping hexagonal BN for high capacity negative electrodes for Li and Na ion batteries. Physical Chemistry Chemical Physics, 2023, 25, 4047-4061.	2.8	5
1363	On the Road to the Frontiers of Lithium-Ion Batteries: A Review and Outlook of Graphene Anodes. Advanced Materials, 2023, 35, .	21.0	58
1365	Synthetic porous carbons for clean energy storage and conversion. EnergyChem, 2023, 5, 100099.	19.1	6
1366	Machine learning approach to understanding the synergistic pseudocapacitive effects of heteroatom doped graphene. 2D Materials, 2023, 10, 025003.	4.4	6
1367	Theoretical characterization of codoped bilayer graphene. Computational and Theoretical Chemistry, 2023, 1221, 114035.	2.5	0
1368	Doped Graphene Quantum Dots UV-vis Absorption Spectrum: A High-Throughput TDDFT Study. ACS Omega, 2023, 8, 2112-2118.	3.5	5
1369	Recent Progress of Non-Pt Catalysts for Oxygen Reduction Reaction in Fuel Cells. Processes, 2023, 11, 361.	2.8	8
1370	Cathode materials for lithium-sulfur battery: a review. Journal of Solid State Electrochemistry, 2023, 27, 813-839.	2.5	14
1371	Phosphorous- and Boron-Doped Graphene-Based Nanomaterials for Energy-Related Applications. Materials, 2023, 16, 1155.	2.9	6

#	ARTICLE	IF	CITATIONS
1372	Pyridinic Dominance N-Doped Graphene: A Potential Material for SO ₂ Gas Detection. Journal of Physical Chemistry A, 2023, 127, 1112-1123.	2.5	5
1373	Eco-Friendly and Sustainable Pathways to Photoluminescent Carbon Quantum Dots (CQDs). Nanomaterials, 2023, 13, 554.	4.1	5
1374	Folic Acid-Derived Low-dimensional carbons for efficient oxidative dehydrogenation of ethylbenzene. Journal of Colloid and Interface Science, 2023, 638, 291-299.	9.4	6
1375	Graphene quantum dots and their role in environmental sustainability. , 2023, , 227-249.		0
1376	Covalent Triazine Framework C ₆ N ₆ as an Electrochemical Sensor for Hydrogen-Containing Industrial Pollutants. A DFT Study. Nanomaterials, 2023, 13, 1121.	4.1	3
1377	Doping of Laser-Induced Graphene and Its Applications. Advanced Materials Technologies, 2023, 8, .	5.8	6
1378	Nitrogen and sulfur co-doping carbon in different dimensions as electrode for supercapacitor applications. Journal of Alloys and Compounds, 2023, 947, 169654.	5.5	7
1379	Lamellar-stacked cobalt-based nanopiles integrated with nitrogen/sulfur co-doped graphene as a bifunctional electrocatalyst for ultralong-term zinc-air batteries. Journal of Energy Chemistry, 2023, 81, 633-641.	12.9	15
1380	Functionalization of graphene-based nanomaterials for energy and hydrogen storage. Electrochimica Acta, 2023, 452, 142340.	5.2	13
1381	N-doped carbon-based catalysts in situ generation hydrogen peroxide via 2-electron oxygen reduction reaction for degradation of organic contaminants in heterogeneous electro-Fenton process: A mini review. Surfaces and Interfaces, 2023, 38, 102879.	3.0	2
1382	Porous and graphitic structure optimization of biomass-based carbon materials from 0D to 3D for supercapacitors: A review. Chemical Engineering Journal, 2023, 460, 141607.	12.7	77
1383	Low temperature electrical transport in microwave plasma fabricated free-standing graphene and N-graphene sheets. Materials Research Express, 2023, 10, 025602.	1.6	1
1384	Scalable synthesis of nitrogen and nitrogen-silicon co-doped graphene: SiC ₄ and SiN ₁ C ₃ as new active centers for boosting ORR performance. International Journal of Hydrogen Energy, 2023, 48, 17512-17525.	7.1	7
1385	Indirect oxidation mechanism governing in P-rGO/Ti anode with C ₂ -PO ₂ /rGO configuration for efficient 2-Methyl-4-Isothiazolin-3-one electrooxidation. Chemical Engineering Journal, 2023, 461, 141934.	12.7	2
1386	Pyridine-Based Small-Molecule Fluorescent Probes as Optical Sensors for Benzene and Gasoline Adulteration. Photochem, 2023, 3, 109-126.	2.2	2
1387	Recent Progress of Graphene Fiber/Fabric Supercapacitors: From Building Block Architecture, Fiber Assembly, and Fabric Construction to Wearable Applications. Advanced Fiber Materials, 2023, 5, 896-927.	16.1	22
1388	Coupling Ni-Cu atomic pair to promote CO ₂ electroreduction with near-unity CO selectivity. Environmental Science and Pollution Research, 2023, 30, 51876-51886.	5.3	0
1389	Development of copper foam-based composite catalysts for electrolysis of water and beyond. Sustainable Energy and Fuels, 2023, 7, 1604-1626.	4.9	2

#	ARTICLE	IF	CITATIONS
1390	Regulation of the Electronic Properties of Graphene via Organic Molecular Intercalation. Chemistry of Materials, 2023, 35, 2125-2132.	6.7	2
1391	Review on Fiber-Based Thermoelectrics: Materials, Devices, and Textiles. Advanced Fiber Materials, 2023, 5, 1105-1140.	16.1	7
1392	Porous Graphene-Based Materials for Enhanced Adsorption Towards Emerging Micropollutants (EMs). Materials Horizons, 2023, , 547-570.	0.6	1
1393	Recent advances in density functional theory approach for optoelectronics properties of graphene. Heliyon, 2023, 9, e14279.	3.2	2
1394	Superwetting graphene-based materials: From wettability regulation to practical applications. Materials Today Chemistry, 2023, 29, 101452.	3.5	1
1397	Carbon materials in electrocatalytic oxidation systems for the treatment of organic pollutants in wastewater: A review. Carbon Resources Conversion, 2023, 6, 262-273.	5.9	11
1398	New insights on applications of quantum dots in fuel cell and electrochemical systems. International Journal of Hydrogen Energy, 2024, 52, 694-732.	7.1	2
1399	In situ anchoring MnS nanoparticles on cobblestone-like carbon matrix as an anode with enhanced electrochemical performance. Ionics, 2023, 29, 1765-1776.	2.4	1
1400	Stimulating the Intrinsic Activities of the MoS ₂ Nanosheet Coated on S,N-Graphene for Efficient Membrane Electrofiltration. ACS ES&T Water, 0, , .	4.6	0
1401	Deprotonation-Induced and Ion-Pairing-Modulated Diradical Properties of Partially Conjugated Pyrrole-Quinone Conjunction. Journal of the American Chemical Society, 2023, 145, 8122-8129.	13.7	3
1402	N-Doped Carbon Fibers Derived from Porous Wood Fibers Encapsulated in a Zeolitic Imidazolate Framework as an Electrode Material for Supercapacitors. Molecules, 2023, 28, 3081.	3.8	1
1403	From Fenton and ORR 2e ⁻ -Type Catalysts to Bifunctional Electrodes for Environmental Remediation Using the Electro-Fenton Process. Catalysts, 2023, 13, 674.	3.5	4
1404	Selective Hydrogenation of Benzylidenethiazolidinedione Exocyclic Alkene with Anti-poisoning Nitrogen-Doped Carbon Supported Palladium Catalysts. Catalysis Letters, 2024, 154, 387-396.	2.6	0
1405	The high-efficiency supercapacitor electrodes influencing laser-induced nanomaterials with co-doped Nitrogen and Phosphorous. Materials Today: Proceedings, 2023, , .	1.8	0
1406	Decoration of ruthenium nanoparticles on nitrogen and phosphorus-doped carbon as a robust catalyst for the reduction of nitroarenes. Journal of Molecular Structure, 2023, 1287, 135609.	3.6	2
1407	Recent advances in porous carbon nanosheets for high-performance metal-ion capacitors. Chemical Engineering Journal, 2023, 466, 143077.	12.7	18
1408	One-Pot Electrochemical Exfoliation and Deposition of 3D Zincophilic Graphene Hosts for Dendrite-Free Zinc Metal Anodes. ACS Applied Energy Materials, 2023, 6, 4748-4756.	5.1	4
1409	Recent Advances in Carbon-Based Electrodes for Energy Storage and Conversion. Advanced Science, 2023, 10, .	11.2	35

#	ARTICLE	IF	CITATION
1410	Multiple Helicenes Defected by Heteroatoms and Heptagons with Narrow Emissions and Superior Photoluminescence Quantum Yields**. Angewandte Chemie, 0, , .	2.0	0
1411	Sustainable development of anode materials for non-aqueous potassium ion batteries. Journal of Energy Storage, 2023, 68, 107691.	8.1	0
1412	Surface free energy of graphene-based coatings and its component elements. Inorganic Chemistry Communication, 2023, 153, 110855.	3.9	0
1413	Facile coupling MnS nanoparticles with nitrogen, sulfur-doped carbon microsheet with improved Li-storage performance. Ionics, 2023, 29, 2637-2646.	2.4	0
1414	Solvent-Controlled Product Distribution in Vanillin Hydrogenation over a N-Doped Carbon-Supported Nickel Catalyst. Industrial & Engineering Chemistry Research, 2023, 62, 9134-9143.	3.7	3
1415	Construction of a BC₃-based TM single-atom catalyst for efficient reduction of CO₂ to CH₄: a computational study. Physical Chemistry Chemical Physics, 2023, 25, 17429-17433.	2.8	2
1416	Magnetic Properties and Hysteresis Behavior of a Ferromagnetic Spin-3/2 System in a Graphene Monolayer. International Journal of Theoretical Physics, 2023, 62, .	1.2	1
1417	Synthesis of Co9S8@CNT hydrogen production composites by one-step pyrolysis of monomolecule precursor. APL Materials, 2023, 11, .	5.1	0
1418	Highly fluorescent graphene quantum dots as “turn off” nanosensor for detecting toxic metal ions to organic pollutant. International Journal of Environmental Science and Technology, 2024, 21, 1637-1648.	3.5	1
1419	Bioelectrochemical stability improvement by Ceâ€N modified carbon-based cathode in high-salt stress and mechanism research. Journal of Environmental Management, 2023, 342, 118351.	7.8	1
1420	è¿€æ¿€±ä¿€é¥°çŸ„æ¿€ŽŸæŽŸæ¿€šš”çŸŸŸæ°ŸŸž~äŽŸ’ææžæ°Ÿšš, -äŸŸ-ä%°, çŸ„ç”ç©Ÿè¿€ä±•. Scientia Sinica: Physica, Mechanica		
1422	Unveiled Supercapacitive Performance of Seâ€doped Graphene Nanoarchitectonics Prepared via Supercritical Fluid Technique. ChemNanoMat, 2023, 9, .	2.8	1
1423	Polarization genes dominated heteroatom-doped graphene aerogels toward super-efficiency microwave absorption. Journal of Materials Chemistry C, 2023, 11, 9804-9814.	5.5	7
1424	Magnetic properties and hysteresis behavior of a mixed spin-3/2 and spin-3 Ising ferrimagnetic system in a graphene monolayer. Journal of Magnetism and Magnetic Materials, 2023, 580, 170932.	2.3	1
1425	The mechanism of B, N co-doping for enhancing graphene catalytic performance: CO oxidation and O2 dissociation as model reactions. Computational and Theoretical Chemistry, 2023, 1227, 114213.	2.5	1
1426	Agricultural waste-derived graphene and its derivatives. , 2023, , 213-237.		0
1427	A first-principles study of structural, electronic and transport properties of aluminium and phosphorus-doped graphene. Computational Condensed Matter, 2023, 36, e00828.	2.1	1
1428	S, N co-doped rGO/fluorine-free Ti3C2Tx aerogels for high performance all-solid-state supercapacitors. Journal of Energy Storage, 2023, 71, 108140.	8.1	4

#	ARTICLE	IF	CITATIONS
1429	Effects of Si, B doping on PC3 monolayer as anode for Na-ion batteries. Physica E: Low-Dimensional Systems and Nanostructures, 2023, 152, 115742.	2.7	0
1430	Graphene Nanotechnology for Renewable Energy Systems. Engineering Materials, 2023, , 167-193.	0.6	0
1431	Two birds with one stone: cobalt/silicon species encapsulated in MOF-derived nitrogen-doped carbon as an integrated electrode for next-generation symmetric pseudocapacitors with energy density over 100 W h kg ⁻¹ . Journal of Materials Chemistry A, 2023, 11, 11804-11818.	10.3	5
1432	Nitrogen-doped sp ³ carbon dot catalysed two-electron electrochemical oxygen reduction for efficient production of hydrogen peroxide. Journal of Materials Chemistry A, 2023, 11, 11704-11711.	10.3	4
1433	Quasi-In Situ Synthesis of Oxygen Vacancy-Enriched Strontium Iron Oxide Supported on Boron-Doped Reduced Graphene Oxide to Elevate the Photocatalytic Destruction of Tetracycline. Langmuir, 2023, 39, 7091-7108.	3.5	3
1434	Electrical Field-Induced Hydrogen Generation at Electrochemically Grown Catalyst-Free Carbon Fiber Microstructures. ACS Applied Energy Materials, 2023, 6, 5144-5154.	5.1	0
1435	A biological evaluation and molecular docking insight on green synthesized graphene oxide nanoparticles mediated growth promotion in mungbean. Scientia Horticulturae, 2023, 318, 112097.	3.6	0
1436	Multiple Helicenes Defected by Heteroatoms and Heptagons with Narrow Emissions and Superior Photoluminescence Quantum Yields**. Angewandte Chemie - International Edition, 2023, 62, .	13.8	11
1437	Multifunctional and High-Performance FAPBI ₃ Quantum Dots/Graphene UV Photodetectors by the Modulation of Photoconductivity. Advanced Optical Materials, 0, , .	7.3	0
1438	Atomic-scale identification of nitrogen dopants in graphene on Ir(111) and Ru(0001). Journal of Physics Condensed Matter, 2023, 35, 405003.	1.8	1
1439	Electrocatalytic reduction of CO ₂ with N/B co-doped reduced graphene oxide based catalysts. Journal of Industrial and Engineering Chemistry, 2023, , .	5.8	0
1440	Hydrothermal Synthesis of Boron-Doped Graphene for High-Performance Zinc-Ion Hybrid Capacitor Using Aloe Vera Gel Electrolyte. Inorganics, 2023, 11, 280.	2.7	0
1441	Electrocatalytic activity analysis of vinegar residue-based heteroatom-doped carbon quantum dots integrated on vertically aligned graphene arrays for hydrogen evolution reaction. International Journal of Hydrogen Energy, 2023, 48, 38686-38698.	7.1	2
1442	Block Bismuth Nanoclusters Sites Activated by Atomically Dispersed Bismuth for Tandem Boosting Electrocatalytic Hydrogen Peroxide Production. Angewandte Chemie, 2023, 135, .	2.0	0
1443	Block Bismuth Nanoclusters Sites Activated by Atomically Dispersed Bismuth for Tandem Boosting Electrocatalytic Hydrogen Peroxide Production. Angewandte Chemie - International Edition, 2023, 62, .	13.8	5
1444	Bioresource-Based Graphene Quantum Dots and Their Applications: A Review. ACS Applied Nano Materials, 2023, 6, 10925-10943.	5.0	4
1445	Hexagonally close-packed three-dimensional nano-flower entrapped on a heteroatom doped carbon sheets: A sensitive electro-catalyst to determine sulfonamide in environmental samples. Food Chemistry, 2023, 429, 136826.	8.2	4
1446	Extension of Non-alternant Nanographenes Containing Nitrogen-Doped Stone-Wales Defects. Angewandte Chemie - International Edition, 2023, 62, .	13.8	7

#	ARTICLE	IF	CITATIONS
1447	Extension of Nonâ€alternant Nanographenes Containing Nitrogenâ€Doped Stoneâ€Throwerâ€Wales Defects. Angewandte Chemie, 2023, 135, .	2.0	0
1448	Carbon Shell-Confined Pd-Fe Bimetallic Nanoparticles in NCNTs as Anode Catalysts for Microfluidic Direct Ethylene Glycol Fuel Cells. ACS Applied Energy Materials, 2023, 6, 7445-7456.	5.1	0
1449	Morphological changes of carbon thin films with nitrogen doping synthesized by microwave-excited surface wave plasma CVD. Materials Chemistry and Physics, 2023, 307, 128183.	4.0	0
1450	Effect of Carbon Nanoparticles on the Porous Texture of Î1-Carrageenan-Based N-Doped Nanostructured Porous Carbons and Implications for Gas Phase Applications. Journal of Carbon Research, 2023, 9, 68.	2.7	2
1451	Negative photoconductivity: optical and structural characterization of PVP encapsulated CuO nanorods for the study of negative photoconductivity effect. European Physical Journal Plus, 2023, 138, .	2.6	1
1452	Graphene-Based Nanomaterials for Supercapacitor Applications: A Critical Review. , 2023, , 293-312.		0
1453	Naphthodithiopheneâ€Fused Porphyrins: Synthesis, Characterization, and Impact of Extended Conjugation on Aromaticity. Chemistry - A European Journal, 2023, 29, .	3.3	1
1454	Doped MXenesâ€A new paradigm in 2D systems: Synthesis, properties and applications. Progress in Materials Science, 2023, 139, 101166.	32.8	3
1455	Mesoporous semi-ionic F-doped g-C<math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si4.svg" display="inline" id="d1e443"><mml:msub><mml:mrow /><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:math>N<math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si5.svg" display="inline" id="d1e451"><mml:msub><mml:mrow /><mml:mrow><mml:mn>4</mml:mn></mml:mrow></mml:msub></mml:math> as efficient photocatalyst	6.1	4
1456	Nitrogen/phosphorus co-doped carbon decorated with metallic zinc for high-performance potassium-ion batteries. Applied Physics Letters, 2023, 123, .	3.3	9
1457	Tuning nonlinear optical properties of tetracyclopentatetraphenylene by superhalogens doping: Quantum chemical perspective of novel NLO materials for modern optoelectronic applications. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2023, 297, 116763.	3.5	2
1458	Poly (Ionic Liquid)â€Metal Organic Frameworkâ€Derived Nanoporous Carbon Membranes: Facile Fabrication and Ultrahigh Areal Capacitance. Macromolecular Rapid Communications, 2023, 44, .	3.9	3
1459	Nitrogen doped reduced graphene oxide: Investigations on electronic properties using X-ray and Ultra-violet photoelectron spectroscopy and field electron emission behaviour. Surfaces and Interfaces, 2023, 41, 103251.	3.0	0
1460	Synthesis and Applications of Organic Borazine Materials. Advanced Functional Materials, 2023, 33, .	14.9	5
1461	Oxide-mediated nitrogen doping of CVD graphene and their subsequent thermal stability. Nanotechnology, 2023, 34, 455703.	2.6	0
1462	Clean Production of Hydrogen Peroxide: A Heterogeneous Solarâ€Driven Redox Process. Advanced Energy Materials, 2023, 13, .	19.5	11
1463	Photoelectrochemical Engineering for Lightâ€Assisted Rechargeable Metal Batteries: Mechanism, Development, and Future. Small, 2023, 19, .	10.0	0
1464	Developed composites materials for flexible supercapacitors electrode: â€Recent progress & future aspectsâ€. Journal of Energy Storage, 2023, 72, 108807.	8.1	14

#	ARTICLE	IF	CITATIONS
1465	3D Porous VO _x /N-Doped Carbon Nanosheet Hybrids Derived from Cross-Linked Dicyandiamide–Chitosan Hydrogels for Superior Supercapacitor Electrode Materials. <i>Polymers</i> , 2023, 15, 3565.	4.5	3
1466	Quantum dots derived from two-dimensional transition metal dichalcogenides: synthesis, optical properties and optoelectronic applications. <i>Nanotechnology</i> , 2023, 34, 482001.	2.6	0
1467	Recent Advancements in Applications of Graphene to Attain Next-Level Solar Cells. <i>Journal of Carbon Research</i> , 2023, 9, 70.	2.7	2
1468	Nitrogen-doped reduced graphene oxide enfolded zinc cobaltite micro flowers as efficient triiodide reduction for a platinum-free counter electrode in dye-sensitized solar cell applications. <i>Electrochimica Acta</i> , 2024, 475, 143262.	5.2	0
1469	Progress on Single-Atom Photocatalysts for H ₂ Generation: Material Design, Catalytic Mechanism, and Perspectives. <i>Small Methods</i> , 2023, 7, .	8.6	2
1471	Exploring modern developments in diverse 2D photocatalysts for water oxidation. <i>Journal of Porous Materials</i> , 2024, 31, 1-32.	2.6	0
1472	Higher Electrical Conductivity of Functionalized Graphene Oxide Doped with Silver and Copper (II) Ions. <i>Energies</i> , 2023, 16, 7019.	3.1	0
1473	Hard carbons from automotive shredder residue (ASR) as potential anode active material for sodium ion battery. <i>Journal of Power Sources</i> , 2023, 584, 233577.	7.8	1
1474	Capillary assisted self-assembly and nascent hydrogen reduction of graphene oxide on Al: Formation of C–O–Al bonds under mild condition. <i>Carbon</i> , 2023, 215, 118474.	10.3	2
1475	Graphene Scaffolds: A Striking Approach to Combat Dermatophytosis. <i>Nanomaterials</i> , 2023, 13, 2305.	4.1	1
1476	Recent applications in dielectric barrier discharge and radio frequency plasmas–engineered transition metal electrocatalysts for water splitting. <i>High Voltage</i> , 2023, 8, 1115-1131.	4.7	2
1477	Investigation of supercapacitor electrode performances of phosphorus-doped graphene oxide electrodes in various deep eutectic solvents and symmetric supercapacitor application. <i>Journal of Energy Storage</i> , 2023, 73, 109184.	8.1	2
1478	Photocatalytic activity of B-doped nano graphene oxide over hydrogenated NiO-loaded TiO ₂ nanotubes. <i>Materials Today Sustainability</i> , 2023, 24, 100497.	4.1	0
1479	Atomic-scale carbon framework reconstruction enables nitrogen-doping up to 33.8 Åt% in graphene nanoribbon. <i>Nano Energy</i> , 2023, 116, 108744.	16.0	0
1480	Tunable nitrogen crafted 2D-graphene nano-hybrid from industrial expansive and ecological approach as robust cathode microporous layer to improve performance of a direct methanol fuel cell. <i>Science China Technological Sciences</i> , 2023, 66, 2669-2680.	4.0	0
1481	Co ²⁺ -coordination-assisted enhancement of mechanical and iodynamic properties of 3D graphene-based double network hydrogels for all-solid-state supercapacitors. <i>Carbon Letters</i> , 0, , .	5.9	0
1482	Tailoring microenvironments of single-atom catalysts with non-metal p-block elements for selective environmental processes. , 2023, , .		0
1483	A CoFe ₂ Alloy–Functionalized Few-Layer Graphene Sheet Nanocomposite as an Electrocatalyst of the Oxygen Reduction Reaction. <i>ChemistrySelect</i> , 2023, 8, .	1.5	1

#	ARTICLE	IF	CITATIONS
1484	BN-bicyclohexyl material for enhanced reversible dehydrogenation reaction for hydrogen storage: Density functional theory approach. <i>Applied Surface Science</i> , 2023, 641, 158471.	6.1	0
1485	Improving hydrogen evolution catalytic activity of 2D carbon allotrope biphenylene with B, N, P doping: Density functional theory investigations. <i>International Journal of Hydrogen Energy</i> , 2024, 52, 569-579.	7.1	0
1486	Enhanced electrical conductivity of copper by nitrogen-doped graphene. <i>Scripta Materialia</i> , 2024, 239, 115797.	5.2	0
1487	Phase controlled Fe ₂ N@Fe ₃ O ₄ core-shell nanoparticles hybridized with nitrogen-doped reduced graphene oxide for boosted charge transfer in asymmetric supercapacitor. <i>Chemical Engineering Journal</i> , 2023, 476, 146515.	12.7	3
1488	S, N co-doped graphene quantum dots fabricated by rapid microwave-assisted pyrolysis and their optical properties. <i>Materials Today Communications</i> , 2023, 37, 107282.	1.9	1
1489	Theoretical prediction of two-element two-dimensional layered structures and efficient doping engineering on carbon phosphide. <i>Journal of Materials Chemistry C</i> , 0, , .	5.5	0
1490	1D Versus 2D Carbon Nanostructures for Flexible and Ultrathin Solar Cells. , 2023, , 1-39.		0
1491	Defect and Donor Manipulated Highly Efficient Electron-Hole Separation in a 3D Nanoporous Schottky Heterojunction. <i>JACS Au</i> , 2023, 3, 3127-3140.	7.9	2
1492	Emergence of Î€-Magnetism in Fused Aza-Triangulenes: Symmetry and Charge Transfer Effects. <i>Nano Letters</i> , 2023, 23, 9832-9840.	9.1	0
1493	Oxygen reduction electrochemistry at F doped carbons: A review on the effect of highly polarized C-F bonding in catalysis and stability of fuel cell catalysts. <i>Coordination Chemistry Reviews</i> , 2024, 500, 215491.	18.8	1
1494	Visible-light photopolymerization activated by nanocarbon materials as photocatalysts. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2023, 57, 100637.	11.6	1
1495	In-situ synthesis of N, S co-doped electrode material by an environmentally benign method towards designing of high voltage (3.0V) binder-free sustainable aqueous symmetric supercapacitor. <i>Chemical Engineering Journal</i> , 2023, 477, 146972.	12.7	1
1496	Spin-Polarized Topological Phases in Graphene Nanoribbons with Non-Benzenoid Defects. <i>Journal of Physical Chemistry C</i> , 2023, 127, 22856-22864.	3.1	0
1497	An investigation of structural, optical, and electrical properties of poly(3-hexylthiophene)/reduced graphene oxide nanocomposites for electronic and optoelectronic applications. <i>Polymers for Advanced Technologies</i> , 2024, 35, .	3.2	0
1498	Impedance spectroscopy analysis on reduced graphene oxide and CeO ₂ nanocomposites coated on screen-printed alumina substrate for highly selective H ₂ S gas detection at room temperature. <i>Ceramics International</i> , 2024, 50, 4359-4373.	4.8	0
1499	Synthesis of highly efficient nitrogen enriched graphene eosin-Y coupled photocatalyst that uses solar energy in trifluoromethylation of benzaldehydes. <i>Journal of Chemical Sciences</i> , 2023, 135, .	1.5	1
1500	Graphene Nanoplatelet Surface Modification for Rheological Properties Enhancement in Drilling Fluid Operations: A Review. <i>Arabian Journal for Science and Engineering</i> , 0, , .	3.0	0
1501	Basic Information of Electrochemical Energy Storage. , 2023, , 17-48.		0

#	ARTICLE	IF	CITATIONS
1502	Fluorinated photoreduced graphene oxide with semi-ionic C–F bonds: An effective carbon based photocatalyst for the removal of volatile organic compounds. Chemosphere, 2024, 349, 140890.	8.2	0
1503	Lithium–Sulfur Batteries with Triethylsulfonium Bis(trifluoromethane sulfonyl)imide Ionic Liquid During First Charge–Discharge Cycling: EIS & DFT Study. Batteries and Supercaps, 2024, 7, .	4.7	0
1504	Graphene-Based Electrochemical Sensing Platform for Rapid and Selective Ferulic Acid Quantification. International Journal of Molecular Sciences, 2023, 24, 16937.	4.1	1
1505	Preparation and properties of heteroatom-doped bacterial cellulose-derived carbonaceous materials. Carbohydrate Polymer Technologies and Applications, 2023, 6, 100400.	2.6	0
1506	A state-of-the-art review on biomass-derived carbon materials for supercapacitor applications: From precursor selection to design optimization. Science of the Total Environment, 2024, 912, 169141.	8.0	1
1507	Synthesis of N–Doped Graphene Photo–Catalyst for Photo–Assisted Charging of Li–Ion Oxygen Battery. Global Challenges, 2024, 8, .	3.6	0
1508	Development of graphene and graphene quantum dots toward biomedical engineering applications: A review. Nanotechnology Reviews, 2023, 12, .	5.8	1
1509	Recent Advances and Future Perspectives of Transition Metal–Supported Carbon with Different Dimensions for Highly Efficient Electrochemical Hydrogen Peroxide Preparation. Advanced Energy Materials, 0, , .	19.5	0
1510	Multiscale Structural Design of 2D Nanomaterials–Based Flexible Electrodes for Wearable Energy Storage Applications. Advanced Science, 2024, 11, .	11.2	0
1511	Boosting photocatalytic CO ₂ reduction efficiency by graphene nanoflakes (GNF) decorated ZIF-67 under visible light irradiation. Journal of Environmental Chemical Engineering, 2024, 12, 111722.	6.7	1
1512	Electrochemical reaction catalyzed by carbon dots from computational investigations: functional group, dopant, and defect. Journal of Materials Chemistry A, 0, , .	10.3	0
1513	Tackling the activity and selectivity challenges of electrocatalysts toward the $\text{CO}_2 \rightarrow \text{RR}$ via biatom catalysts on the 2D extended phthalocyanines. International Journal of Quantum Chemistry, 2024, 124, .	2.0	0
1514	Surface chemistry of graphitic carbon nitride: doping and plasmonic effect, and photocatalytic applications. , 2023, 1, .		3
1515	High-performance UV photodetector based on nickel oxide loaded with low amount of nitrogen and boron co-doped reduced graphene oxide for bias-switchable photoconductance. Journal of Alloys and Compounds, 2024, 976, 173248.	5.5	0
1516	Boosting Interlayer Charge Transfer in Polymeric Carbon Nitride by Mo Ion for Efficient Photocatalytic H ₂ evolution. Energy Advances, 0, , .	3.3	0
1517	Single-atom catalysts for electrocatalytic applications: Synthetic strategies, in-situ characterization, and future challenges. Applied Materials Today, 2024, 36, 102037.	4.3	0
1518	High Energy Density Primary Lithium Battery with Fluorinated S-Doped Graphene. Journal of Carbon Research, 2024, 10, 3.	2.7	0
1519	Plasma-Doped Carbon-Based Anode Materials in Potassium Ion Batteries: A Review of Current and Future Prospects. , 0, 73, 559-569.		0

#	ARTICLE	IF	CITATIONS
1520	Study of high conductivity electrode for superior performance lithium-ion batteries based on low tortuosity corn straw biochar/VS4 with multichannel structure. <i>Industrial Crops and Products</i> , 2024, 209, 117995.	5.2	0
1521	MOFs-derived Co/C nanoparticle embedded in N, S co-doped graphene for superior electromagnetic wave absorption capacity. <i>Ceramics International</i> , 2024, 50, 10016-10025.	4.8	0
1522	The Case for a Defect Genome Initiative. <i>Advanced Materials</i> , 2024, 36, .	21.0	1
1523	Boosting oxygen mass transfer for efficient H ₂ O ₂ generation via 2e ⁻ -ORR: A state-of-the-art overview. <i>Electrochimica Acta</i> , 2024, 479, 143889.	5.2	1
1524	Recent advances and challenges in biomass-derived carbon materials for supercapacitors: A review. <i>Fuel</i> , 2024, 362, 130795.	6.4	2
1525	Selective nano-buckling improves the performance of graphene logic transistors. <i>National Science Review</i> , 2024, 11, .	9.5	0
1526	Exploring two decades of graphene: The jack of all trades. <i>Applied Materials Today</i> , 2024, 36, 102066.	4.3	0
1527	Operando formation of highly efficient electrocatalysts induced by heteroatom leaching. <i>Nature Communications</i> , 2024, 15, .	12.8	0
1529	Density Functional Theory-Based Approaches to Improving Hydrogen Storage in Graphene-Based Materials. <i>Molecules</i> , 2024, 29, 436.	3.8	1
1530	Soluble Nanographene C ₂₂₂ : Synthesis and Applications for Synergistic Photodynamic/Photothermal Therapy. <i>Journal of the American Chemical Society</i> , 2024, 146, 2411-2418.	13.7	0
1531	Plasma-enabled multifunctional platform for gram-scale production of graphene and derivatives. <i>Applied Materials Today</i> , 2024, 36, 102056.	4.3	0
1532	Transition metal dichalcogenide quantum dots: Synthesis, properties, and applications for electrochemistry, energy storage, and solar cells. <i>Bulletin of the Korean Chemical Society</i> , 2024, 45, 214-227.	1.9	0
1533	Preparation and characteristics of decene-functionalized graphitic nanoplatelets/acrylonitrile butadiene styrene hybrid nanocomposites. <i>Polymer</i> , 2024, 294, 126727.	3.8	1
1534	Heteroatom-Doped Carbon-Based Catalysts Synthesized through a "Cook-Off" Process for Oxygen Reduction Reaction. <i>Processes</i> , 2024, 12, 264.	2.8	0
1535	Auxetic 1T-Li ₂ O: A Novel 2D Materials with Negative Poisson's Ratio. <i>Jom</i> , 2024, 76, 2062-2068.	1.9	0
1536	Development of plasma technology for the preparation and modification of energy storage materials. <i>Chemical Communications</i> , 2024, 60, 2700-2715.	4.1	0
1537	Quasi-molecular hydrogen storage capacity of graphene quantum dots: A dispersion corrected DFT study. <i>Journal of Energy Storage</i> , 2024, 84, 110833.	8.1	0
1538	Exploring the antimicrobial potential of biogenically synthesized graphene oxide nanoparticles against targeted bacterial and fungal pathogens. <i>Green Processing and Synthesis</i> , 2024, 13, .	3.4	0

#	ARTICLE	IF	CITATIONS
1539	Versatile carbon-based materials from biomass for advanced electrochemical energy storage systems. EScience, 2024, , 100249.	41.6	0
1540	Single-Atom Catalyst for Electrochemical Water Splitting. Materials Horizons, 2024, , 217-242.	0.6	0
1541	Redox-Active Phenanthrenequinone Molecules and Nitrogen-Doped Reduced Graphene Oxide as Active Material Composites for Supercapacitor Applications. ACS Omega, 2024, 9, 10080-10089.	3.5	0
1542	Prediction of highly stable 2D carbon allotropes based on azulenoïd kekulene. Nature Communications, 2024, 15, .	12.8	0
1543	Magnetic behavior of spin-3/2 Blumeâ€“Capel graphene-like monolayer in a transverse crystal field. European Physical Journal B, 2024, 97, .	1.5	0
1544	N-S vacancy sites on heteroatomic doping metal-free carbo-catalyst for efficient biomass hydrodeoxygenation. Fuel, 2024, 366, 131222.	6.4	0
1545	Microwave graphitic nitrogen/boron ultradoping of graphene. Npj 2D Materials and Applications, 2024, 8, .	7.9	0
1546	Tuning the Fermi Level of Graphene by Two-Dimensional Metals for Raman Detection of Molecules. ACS Nano, 2024, 18, 8876-8884.	14.6	0
1547	Electrochemical determination of ascorbic acid using palladium supported on N-doped graphene quantum dot modified electrode. Scientific Reports, 2024, 14, .	3.3	0