

Nitrogen-doped graphene: Synthesis, characterizations

Journal of Energy Chemistry

27, 146-160

DOI: [10.1016/j.jechem.2017.12.006](https://doi.org/10.1016/j.jechem.2017.12.006)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Homogeneous growth of TiO ₂ -based nanotubes on nitrogen-doped reduced graphene oxide and its enhanced performance as a Li-ion battery anode. <i>Nanotechnology</i> , 2018, 29, 255402.	1.3	18
2	Thermal Stability and Potential Cycling Durability of Nitrogen-Doped Graphene Modified by Metal-Organic Framework for Oxygen Reduction Reactions. <i>Catalysts</i> , 2018, 8, 607.	1.6	20
3	Facile Synthesis of Zn/N-doped CuO and Their Application in Oxygen Evolution Reaction. <i>ChemistrySelect</i> , 2018, 3, 12205-12209.	0.7	2
4	Layered tin sulfide and selenide anode materials for Li- and Na-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 12185-12214.	5.2	245
5	Amino acid-assisted synthesis of Fe ₂ O ₃ /nitrogen doped graphene hydrogels as high performance electrode material. <i>Electrochimica Acta</i> , 2018, 283, 1858-1870.	2.6	33
6	Nanomaterials for Electrical Energy Storage. , 2019, , 165-206.		12
7	Simultaneous Determination of Catechol and Hydroquinone Using Non-Enzymatic Co ₃ O ₄ @carbon Core/Shell Composites Based Sensor. <i>Journal of the Electrochemical Society</i> , 2019, 166, B1069-B1078.	1.3	29
8	Role of Chemical Doping in Large Deformation Behavior of Spiral Carbon-Based Nanostructures: Unraveling Geometry-Dependent Chemical Doping Effects. <i>Journal of Physical Chemistry C</i> , 2019, 123, 19208-19219.	1.5	16
9	Palladium sulfide nanoparticles attached MoS ₂ /nitrogen-doped graphene heterostructures for efficient oxygen reduction reaction. <i>Synthetic Metals</i> , 2019, 254, 172-179.	2.1	10
10	Hydrogen physisorption on nitrogen-doped graphene and graphene-like boron nitride-carbon heterostructures: a DFT study. <i>Surfaces and Interfaces</i> , 2019, 17, 100355.	1.5	19
11	Promotion of the performance of nitrogen-doped graphene by secondary heteroatoms doping in energy transformation and storage. <i>Ionics</i> , 2019, 25, 3499-3522.	1.2	7
12	A comprehensive study on the characteristic spectroscopic features of nitrogen doped graphene. <i>Applied Surface Science</i> , 2019, 495, 143518.	3.1	11
13	Hierarchical molybdenum dichalcogenide nanosheets assembled nitrogen doped graphene layers for sensitive electrochemical dopamine detection. <i>Materials Chemistry and Physics</i> , 2019, 236, 121814.	2.0	7
14	The effect of nitrogen dopant on hydrogenated graphene for hydrogen storage application. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 541, 012003.	0.3	0
15	Enhanced Performance of GCE/N-Reduced Graphene Oxide-Au Nanocomposite in Dopamine Sensing. <i>Proceedings (mdpi)</i> , 2019, 15, .	0.2	1
16	Thermal treated three-dimensional N-doped graphene as efficient metal free-catalyst for oxygen reduction reaction. <i>Journal of Electroanalytical Chemistry</i> , 2019, 853, 113536.	1.9	21
17	Top-down bottom-up graphene synthesis. <i>Nano Futures</i> , 2019, 3, 042003.	1.0	39
19	The Rapid Synthesis of β -Extended Azacorannulenes. <i>Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry</i> , 2019, 77, 1128-1135.	0.0	4

#	ARTICLE	IF	CITATIONS
20	Synthesis of Doped Porous 3D Graphene Structures by Chemical Vapor Deposition and Its Applications. <i>Advanced Functional Materials</i> , 2019, 29, 1904457.	7.8	64
21	TriQuinoline. <i>Nature Communications</i> , 2019, 10, 3820.	5.8	25
22	Waste Coffee Management: Deriving High-Performance Supercapacitors using Nitrogen-Doped Coffee-Derived Carbon. <i>Journal of Carbon Research</i> , 2019, 5, 44.	1.4	27
23	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.	1.1	1
24	Fabrication and Applications of Carbon/Clay Mineral Nanocomposites. , 2019, , 537-587.		4
25	Highly Efficient Hybrid Ni/Nitrogenated Graphene Electrocatalysts for Hydrogen Evolution Reaction. <i>ACS Omega</i> , 2019, 4, 2206-2216.	1.6	19
26	Poly(3,4-ethylenedioxyppyrrrole) coating and poly(4-styrenesulfonate) polyanions enhance solar cell performance. <i>Chemical Engineering Journal</i> , 2019, 374, 292-303.	6.6	6
27	Polycyclic aromatic hydrocarbons in the graphene era. <i>Science China Chemistry</i> , 2019, 62, 1099-1144.	4.2	142
28	A novel one-pot facile economic approach for the mass synthesis of exfoliated multilayered nitrogen-doped graphene-like nanosheets: new insights into the mechanistic study. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 13611-13622.	1.3	20
29	Synergistic effect of heat treatment and concentration of polydopamine enhance the electrochemical performances of hollow nitrogen-doped carbon microspheres. <i>Ionics</i> , 2019, 25, 4685-4701.	1.2	8
30	Fabrication of nitrogen-doped hollow carbon nanospheres with variable nitrogen contents using mixed polymer brushes as precursors. <i>Journal of Materials Science</i> , 2019, 54, 8121-8132.	1.7	5
31	Mesoporous dominant cashewnut sheath derived bio-carbon anode for LIBs and SIBs. <i>Electrochimica Acta</i> , 2019, 304, 175-183.	2.6	24
32	Electroanalytical Performance of Nitrogen-Doped Graphene Films Processed in One Step by Pulsed Laser Deposition Directly Coupled with Thermal Annealing. <i>Materials</i> , 2019, 12, 666.	1.3	13
33	3D Hierarchical Porous Graphene-Based Energy Materials: Synthesis, Functionalization, and Application in Energy Storage and Conversion. <i>Electrochemical Energy Reviews</i> , 2019, 2, 332-371.	13.1	82
34	Structurally Constrained Boron-, Nitrogen-, Silicon-, and Phosphorus-Centered Polycyclic π -Conjugated Systems. <i>Chemical Reviews</i> , 2019, 119, 8291-8331.	23.0	446
35	Direct growth of nitrogen-doped graphene films on glass by plasma-assisted hot filament CVD for enhanced electricity generation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 12038-12049.	5.2	36
36	Correcting Flaws in the Assignment of Nitrogen Chemical Environments in N-Doped Graphene. <i>Journal of Physical Chemistry C</i> , 2019, 123, 11319-11327.	1.5	33
37	Hierarchical heterostructure based on molybdenum dichalcogenide nanosheets assembled nitrogen doped graphene layers for efficient hydrogen evolution reaction. <i>Materials Research Bulletin</i> , 2019, 115, 201-210.	2.7	12

#	ARTICLE	IF	CITATIONS
38	Tunable nitrogen-doped graphene sheets produced with in situ electrochemical cathodic plasma at room temperature for lithium-ion batteries. <i>Materials Today Energy</i> , 2019, 12, 336-347.	2.5	25
39	Room-temperature conversion of ethane and the mechanism understanding over single iron atoms confined in graphene. <i>Journal of Energy Chemistry</i> , 2019, 36, 47-50.	7.1	10
40	Rational Design of Nanoarray Architectures for Electrocatalytic Water Splitting. <i>Advanced Functional Materials</i> , 2019, 29, 1808367.	7.8	298
41	Catalysis with Two-Dimensional Materials Confining Single Atoms: Concept, Design, and Applications. <i>Chemical Reviews</i> , 2019, 119, 1806-1854.	23.0	745
42	N-doped graphene sheets induced high electrochemical activity in carbon film. <i>Applied Surface Science</i> , 2019, 470, 205-211.	3.1	19
43	Ornamental morphology of ionic liquid functionalized ternary doped N, P, F and N, B, F-reduced graphene oxide and their prevention activities of bacterial biofilm-associated with orthopedic implantation. <i>Materials Science and Engineering C</i> , 2019, 98, 1122-1132.	3.8	38
44	Band structures tuning for 2D porous graphene-like sheets with specific CN stoichiometric ratio: Theoretical investigation. <i>Chemical Physics</i> , 2019, 517, 104-112.	0.9	6
45	Three-Dimensionally N-Doped Graphene@Hydroxyapatite/Agarose as an Osteoinductive Scaffold for Enhancing Bone Regeneration. <i>ACS Applied Bio Materials</i> , 2019, 2, 299-310.	2.3	33
46	Effect of ethylenediamine on morphology of 2D Co-Mo-S@NG hybrids and their enhanced electrocatalytic activity for DSSCs application. <i>Materials Science in Semiconductor Processing</i> , 2020, 105, 104725.	1.9	7
47	Boron-, sulfur-, and phosphorus-doped graphene for environmental applications. <i>Science of the Total Environment</i> , 2020, 698, 134239.	3.9	79
48	Interface effect on promoting reversible conversion for Na ₂ Se in the metal selenide as sodium ion batteries. <i>Journal of Energy Chemistry</i> , 2020, 44, 8-12.	7.1	9
49	A general bimetal-ion adsorption strategy to prepare nickel single atom catalysts anchored on graphene for efficient oxygen evolution reaction. <i>Journal of Energy Chemistry</i> , 2020, 43, 52-57.	7.1	85
50	Insights into the formation of N doped 3D-graphene quantum dots. Spectroscopic and computational approach. <i>Journal of Colloid and Interface Science</i> , 2020, 561, 678-686.	5.0	35
51	Facile synthesis of reduced-graphene-oxide/rare-earth-metal-oxide aerogels as a highly efficient adsorbent for Rhodamine-B. <i>Applied Surface Science</i> , 2020, 504, 144377.	3.1	42
52	CVD grown nitrogen doped graphene is an exceptional visible-light driven photocatalyst for surface catalytic reactions. <i>2D Materials</i> , 2020, 7, 015002.	2.0	12
53	Construction of highly-dispersed and composition-adjustable CoxN in stable Co@CoxN@C nanocomposite catalysts via a dual-ligand-MOF strategy for the selective hydrogenation of citral. <i>Applied Surface Science</i> , 2020, 505, 144387.	3.1	11
54	Graphdiyne for crucial gas involved catalytic reactions in energy conversion applications. <i>Energy and Environmental Science</i> , 2020, 13, 1326-1346.	15.6	115
55	Fe doped CoO/C nanofibers towards efficient oxygen evolution reaction. <i>Applied Surface Science</i> , 2020, 506, 144680.	3.1	35

#	ARTICLE	IF	CITATIONS
56	Carbon Nanotubes/Graphene Composites Treated by Nitrogen-Plasma and Covered with Porous Cobalt Oxide through Galvanostatic Electrodeposition as well as Annealing for Anode Materials of Lithium-Ion Batteries. <i>Electrochemistry</i> , 2020, 88, 14-21.	0.6	2
57	Efforts on enhancing the Li-ion diffusion coefficient and electronic conductivity of titanate-based anode materials for advanced Li-ion batteries. <i>Energy Storage Materials</i> , 2020, 26, 165-197.	9.5	145
58	Boosting nitrogen-doping and controlling interlayer spacing in pre-reduced graphene oxides. <i>Nano Energy</i> , 2020, 78, 105286.	8.2	24
59	A review on C1s XPS-spectra for some kinds of carbon materials. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2020, 28, 1048-1058.	1.0	544
60	Microwave-assisted exfoliation and tearing of graphene oxide in the presence of TiO ₂ nanoparticles. <i>Results in Physics</i> , 2020, 18, 103200.	2.0	14
61	Highly Effective Methods of Obtaining N-Doped Graphene by Gamma Irradiation. <i>Materials</i> , 2020, 13, 4975.	1.3	21
62	The Dual Capacity Contribution Mechanism of SnSb ₂ S ₄ -Anchored Nitrogen-Doped 3D Reduced Graphene Oxide Enhances the Performance of Sodium-Ion Batteries. <i>ChemElectroChem</i> , 2020, 7, 4663-4671.	1.7	5
63	Label-free RNA-based electrochemical nanobiosensor for detection of Hepatitis C. <i>Current Research in Biotechnology</i> , 2020, 2, 187-192.	1.9	8
64	A Review of Strategies for the Synthesis of N-Doped Graphene-Like Materials. <i>Nanomaterials</i> , 2020, 10, 2286.	1.9	40
65	Advances in synthesis of graphene derivatives using industrial wastes precursors; prospects and challenges. <i>Journal of Materials Research and Technology</i> , 2020, 9, 15924-15951.	2.6	74
66	Regulating Capacitive Performance of Monolithic Carbon Sponges by Balancing Heteroatom Content, Surface Area and Graphitization Degree. <i>ChemNanoMat</i> , 2020, 6, 1507-1512.	1.5	7
67	Facile synthesis of CuO/NiO/nitrogen doped rGO by ultrasonication for high performance supercapacitors. <i>Journal of Alloys and Compounds</i> , 2020, 847, 156411.	2.8	50
68	Temperature-Programmed Growth of Quasi-Free-Standing N-Doped Graphene Single Crystals from Acetonitrile Molecules. <i>JETP Letters</i> , 2020, 111, 591-597.	0.4	0
69	Beyond conventional nonlinear fracture mechanics in graphene nanoribbons. <i>Nanoscale</i> , 2020, 12, 18363-18370.	2.8	7
70	Multiwalled Carbon Nanotube-N-Doped Graphene/Poly(3,4-ethylenedioxythiophene):Poly(styrenesulfonate) Nanohybrid for Electrochemical Application in Intelligent Sensors and Supercapacitors. <i>ACS Omega</i> , 2020, 5, 28452-28462.	1.6	13
71	Carbon foams: 3D porous carbon materials holding immense potential. <i>Journal of Materials Chemistry A</i> , 2020, 8, 23699-23723.	5.2	86
72	GOPY: A tool for building 2D graphene-based computational models. <i>SoftwareX</i> , 2020, 12, 100586.	1.2	10
73	Tungsten nitride-coated graphene fibers for high-performance wearable supercapacitors. <i>Nanoscale</i> , 2020, 12, 20239-20249.	2.8	35

#	ARTICLE	IF	CITATIONS
74	Tuning the Nature of N-Based Groups From N-Containing Reduced Graphene Oxide: Enhanced Thermal Stability Using Post-Synthesis Treatments. <i>Nanomaterials</i> , 2020, 10, 1451.	1.9	9
75	Glucose-Derived N-Doped Graphitic Carbon: Facile One-Pot Graphitic Structure-Controlled Chemical Synthesis with Comprehensive Insight into the Controlling Mechanisms. <i>ChemistrySelect</i> , 2020, 5, 14685-14702.	0.7	6
76	Direct large-area growth of graphene on silicon for potential ultra-low-friction applications and silicon-based technologies. <i>Nanotechnology</i> , 2020, 31, 335602.	1.3	10
77	Unveiling a facile approach for large-scale synthesis of N-doped graphene with tuned electrical properties. <i>2D Materials</i> , 2020, 7, 045001.	2.0	31
78	In-situ grown of polyaniline on defective mesoporous carbon as a high performance supercapacitor electrode material. <i>Journal of Energy Storage</i> , 2020, 30, 101429.	3.9	14
79	Multidimensional graphene structures and beyond: Unique properties, syntheses and applications. <i>Progress in Materials Science</i> , 2020, 113, 100665.	16.0	61
80	Electronic Structure of Nitrogen- and Phosphorus-Doped Graphenes Grown by Chemical Vapor Deposition Method. <i>Materials</i> , 2020, 13, 1173.	1.3	21
81	Controllable fabrication of nitrogen-doped porous nanocarbons for high-performance supercapacitors via supramolecular modulation strategy. <i>Journal of Energy Chemistry</i> , 2020, 49, 348-357.	7.1	48
82	Yolk-Shell Structured C/Mn ₃ O ₄ Microspheres Derived from Metal-Organic Frameworks with Enhanced Lithium Storage Performance. <i>Energy Technology</i> , 2020, 8, 2000376.	1.8	4
83	N-Doping Holey Graphene TiO ₂ -Pt Composite as Efficient Electrocatalyst for Methanol Oxidation. <i>ACS Applied Energy Materials</i> , 2020, 3, 2665-2673.	2.5	21
84	SiO ₂ stabilizes electrochemically active nitrogen in few-layer carbon electrodes of extraordinary capacitance. <i>Journal of Energy Chemistry</i> , 2020, 49, 179-188.	7.1	7
85	Microwave plasma-based direct synthesis of free-standing N-graphene. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 4772-4787.	1.3	26
86	Carbon-Based Material-Supported Palladium Nanocatalysts in Coupling Reactions: Discussion on their Stability and Heterogeneity. <i>Applied Organometallic Chemistry</i> , 2020, 34, e5539.	1.7	23
87	A 3D nitrogen-doped graphene aerogel for enhanced visible-light photocatalytic pollutant degradation and hydrogen evolution. <i>RSC Advances</i> , 2020, 10, 12423-12431.	1.7	18
88	Selective C-C Coupling by Spatially Confined Dimeric Metal Centers. <i>IScience</i> , 2020, 23, 101051.	1.9	37
89	Nitrogen and fluorine co-doped 3-dimensional reduced graphene oxide architectures as high-performance electrode material for capacitive deionization of copper ions. <i>Separation and Purification Technology</i> , 2021, 272, 117559.	3.9	23
90	Ultrathin porous Mn(PO ₃) ₂ nanosheets and MoO ₂ nanocrystal arrays on N, P-dual-doped graphene for high-energy asymmetric supercapacitors. <i>Chemical Engineering Journal</i> , 2021, 403, 126379.	6.6	45
91	Nitrogen-doped holey graphene nanoscrolls for high-energy and high-power supercapacitors. <i>Chinese Chemical Letters</i> , 2021, 32, 914-917.	4.8	18

#	ARTICLE	IF	CITATIONS
92	A novel synthesis of Nb ₂ O ₅ @rGO nanocomposite as anode material for superior sodium storage. Chinese Chemical Letters, 2021, 32, 1144-1148.	4.8	21
93	CuCo ₂ S ₄ : Versatile anode for high capacity and high rate for lithium and sodium ion battery application. Journal of Physics and Chemistry of Solids, 2021, 151, 109902.	1.9	10
94	Assigning XPS features in B,N-doped graphene: input from <i>ab initio</i> quantum chemical calculations. Physical Chemistry Chemical Physics, 2021, 23, 1558-1565.	1.3	8
95	Single Atom Catalysts (SAC) trapped in defective and nitrogen-doped graphene supported on metal substrates. Carbon, 2021, 174, 772-788.	5.4	50
96	Heteroatom-Doped Carbon Materials as Support for Anode Electrocatalysts for Direct Formic Acid Fuel Cells. International Journal of Electrochemical Science, 2021, 16, 150926.	0.5	9
97	Engineering three-dimensional nitrogen-doped carbon black embedding nitrogen-doped graphene anchoring ultrafine surface-clean Pd nanoparticles as efficient ethanol oxidation electrocatalyst. Applied Catalysis B: Environmental, 2021, 280, 119464.	10.8	90
98	Electrocatalytic nitrogen reduction on the transition-metal dimer anchored N-doped graphene: performance prediction and synergetic effect. Physical Chemistry Chemical Physics, 2021, 23, 4018-4029.	1.3	90
99	Theoretical study of the adsorption of analgesic environmental pollutants on pristine and nitrogen-doped graphene nanosheets. Physical Chemistry Chemical Physics, 2021, 23, 1221-1233.	1.3	6
100	Universal strategy using environment-friendly inorganic compounds for the preparation of porous carbon nitride for efficient photocatalytic hydrogen production and environmental remediation. New Journal of Chemistry, 2021, 45, 4303-4310.	1.4	1
101	All carbon hybrid N-doped carbon dots/carbon nanotube structures as an efficient catalyst for the oxygen reduction reaction. RSC Advances, 2021, 11, 12520-12530.	1.7	19
102	Design, Fabrication, and Mechanism of Nitrogen-Doped Graphene-Based Photocatalyst. Advanced Materials, 2021, 33, e2003521.	11.1	324
103	Nitrogen doped graphene quantum dots as a cocatalyst of SrTiO ₃ (Al)/CoO _x for photocatalytic overall water splitting. Catalysis Science and Technology, 2021, 11, 3039-3046.	2.1	17
104	Recent trends in Nitrogen doped polymer composites: a review. Journal of Polymer Research, 2021, 28, 1.	1.2	9
105	One-Step Plasma Synthesis of Nitrogen-Doped Carbon Nanomesh. Nanomaterials, 2021, 11, 837.	1.9	5
106	N-doped MWCNTs from catalyst-free, direct pyrolysis of commercial glue. Materials Chemistry and Physics, 2021, 262, 124319.	2.0	3
107	Synergetic Advantages of Atomically Coupled 2D Inorganic and Graphene Nanosheets as Versatile Building Blocks for Diverse Functional Nanohybrids. Advanced Materials, 2021, 33, e2005922.	11.1	49
108	Endogenous H ₂ O ₂ -Sensitive and Weak Acidic pH-Triggered Nitrogen-Doped Graphene Nanoparticles (N-GNMs) in the Tumor Microenvironment Serve as Peroxidase-Mimicking Nanozymes for Tumor-Specific Treatment. Materials, 2021, 14, 1933.	1.3	5
109	Highly ordered mesoporous Co ₃ O ₄ cubes/graphene oxide heterostructure as efficient counter electrodes in dye-sensitized solar cells. Journal of Materials Science: Materials in Electronics, 2021, 32, 16519-16527.	1.1	5

#	ARTICLE	IF	CITATIONS
110	Eco-Friendly Nitrogen-Doped Graphene Preparation and Design for the Oxygen Reduction Reaction. <i>Molecules</i> , 2021, 26, 3858.	1.7	5
111	Heteroatom-doped graphene-based materials for sustainable energy applications: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 143, 110849.	8.2	192
112	<i>In situ</i> synthesis of nitrogen-doped graphene nanoflakes using non-thermal arc plasma. <i>Journal of Applied Physics</i> , 2021, 129, .	1.1	4
113	Recent advances in hierarchical anode designs of TiO_2 nanostructures for lithium-ion batteries. <i>International Journal of Energy Research</i> , 2021, 45, 17532-17562.	2.2	16
114	Bimetallic Pd-Co Nanoparticles Supported on Nitrogen-Doped Reduced Graphene Oxide as Efficient Electrocatalysts for Formic Acid Electrooxidation. <i>Catalysts</i> , 2021, 11, 910.	1.6	8
115	Chemo-Electrical Gas Sensors Based on LaNiMoSe_2 in Graphene and Conducting Polymer PANI Composite Semiconductor Nanocomposite. <i>Journal of Electronic Materials</i> , 2021, 50, 5754-5764.	1.0	7
116	Influence of doping level on the electrocatalytic properties for oxygen reduction reaction of N-doped reduced graphene oxide. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 26040-26052.	3.8	18
117	PROPORTIONAL EFFECT IN SbSi/N -DOPED GRAPHENE NANOCOMPOSITE PREPARATION FOR HIGH-PERFORMANCE LITHIUM-ION BATTERIES. <i>Surface Review and Letters</i> , 2021, 28, .	0.5	2
118	Nanostructured Fe-N-C pyrolyzed catalyst for the H_2O_2 electrochemical sensing. <i>Electrochimica Acta</i> , 2021, 387, 138468.	2.6	11
119	Nitrogen Functionalization of CVD Grown Three-Dimensional Graphene Foam for Hydrogen Evolution Reactions in Alkaline Media. <i>Materials</i> , 2021, 14, 4952.	1.3	15
120	B,N-Codoped Porous C with Controllable N Species as an Electrode Material for Supercapacitors. <i>Inorganic Chemistry</i> , 2021, 60, 13252-13261.	1.9	13
121	Investigation on Electron Transfer Process of Oxygen Reduction Reactions Catalyzed by Nitrogen-doped Graphitic Carbon in Acidic and Alkaline Media. <i>Journal of the Electrochemical Society</i> , 2021, 168, 096508.	1.3	4
122	Facile Synthesis Strategy from Sludge-Derived Extracellular Polymeric Substances to Nitrogen-Doped Graphene Oxide-Like Material and Quantum Dots. <i>ACS Omega</i> , 2021, 6, 24940-24948.	1.6	4
123	A strategy to construct (reduced graphene oxide, $\hat{\Gamma}^3\text{-Fe}_2\text{O}_3$)/ C_3N_4 step-scheme photocatalyst for visible-light water splitting. <i>Catalysis Communications</i> , 2021, 157, 106327.	1.6	7
124	Embedding Pt-Ni octahedral nanoparticles in the 3D nitrogen-doped porous graphene for enhanced oxygen reduction activity. <i>Electrochimica Acta</i> , 2021, 391, 138956.	2.6	10
125	Modulating nitrogen species via N-doping and post annealing of graphene derivatives: XPS and XAS examination. <i>Carbon</i> , 2021, 182, 593-604.	5.4	66
126	Effects of buffer gas on N-doped graphene in a non-thermal plasma process. <i>Diamond and Related Materials</i> , 2021, 118, 108548.	1.8	5
127	Effect of N-doping on graphene: NRR activity and N-source. <i>Diamond and Related Materials</i> , 2021, 118, 108494.	1.8	13

#	ARTICLE	IF	CITATIONS
128	Doping of graphene <i>via</i> adlayer formation of electrochemically reduced dibenzyl viologen. Journal of Materials Chemistry C, 2022, 10, 2696-2702.	2.7	6
129	Electrolyte accessibility of non-precious-metal catalysts with different spherical particle sizes under alkaline conditions for oxygen reduction reaction. Journal of Energy Chemistry, 2021, 52, 326-331.	7.1	4
130	Ultrafast-charging and long cycle-life anode materials of TiO ₂ -bronze/nitrogen-doped graphene nanocomposites for high-performance lithium-ion batteries. RSC Advances, 2020, 10, 43811-43824.	1.7	23
131	AP-XPS beamline, a platform for <i>operando</i> science at Pohang Accelerator Laboratory. Journal of Synchrotron Radiation, 2020, 27, 507-514.	1.0	18
132	A Label-Free Aptasensor for the Detection of Ochratoxin A Based on Competitive Molecule-Level Interactions. Journal of the Electrochemical Society, 2020, 167, 147518.	1.3	4
133	Synthesis of N-doped carbon based on the waste of Brosimum alicastrum from a pilot plant and evaluation of its electrocatalytic activity for the oxygen reduction reaction. MRS Advances, 2020, 5, 2947-2959.	0.5	2
134	Effect of Nitrogen Doping on the Optical Bandgap and Electrical Conductivity of Nitrogen-Doped Reduced Graphene Oxide. Molecules, 2021, 26, 6424.	1.7	21
135	Hydrogen-Bonded Biohybrid Framework-Derived Highly Specific Nanozymes for Biomarker Sensing. Analytical Chemistry, 2021, 93, 13981-13989.	3.2	31
136	Dual heteroatom-doped reduced graphene oxide and its application in dye-sensitized solar cells. Optical Materials, 2021, 122, 111689.	1.7	7
137	A novel synthesis of Nb ₂ O ₅ @N-CNF nanocomposite as anode material for superior sodium storage. IOP Conference Series: Earth and Environmental Science, 2020, 619, 012015.	0.2	2
138	Modulation of carbon induced persulfate activation by nitrogen dopants: recent advances and perspectives. Journal of Materials Chemistry A, 2021, 9, 25796-25826.	5.2	34
139	Enhancement of Characteristics of Nitrogen-Doped Graphene Composite Materials Prepared by Ball Milling of Graphite with Melamine: Effect of Milling Speed and Material Ratios. Sains Malaysiana, 2020, 49, 1745-1754.	0.3	1
140	New Sensitivity Analysis on Graphene Nanoribbon Interconnects to Determine Importance of Parameters. Sensor Letters, 2020, 18, 706-710.	0.4	0
141	Nanocoating Is a New Way for Biofouling Prevention. Frontiers in Nanotechnology, 2021, 3, .	2.4	13
142	Novel honeycomb-like carbons with tunable nanopores as metal-free N, O-codoped catalysts for robust oxygen reduction. Chemical Engineering Journal, 2022, 433, 133560.	6.6	2
143	Mxene coupled over nitrogen-doped graphene anchoring palladium nanocrystals as an advanced electrocatalyst for the ethanol electrooxidation. Journal of Colloid and Interface Science, 2022, 610, 944-952.	5.0	16
144	Pd electrodeposition on a novel substrate of reduced graphene oxide/ poly(melem-formaldehyde) nanocomposite as an active and stable catalyst for ethanol electrooxidation in alkaline media. International Journal of Hydrogen Energy, 2022, 47, 3801-3813.	3.8	9
145	Layered-structure N-doped expanded-graphite/boron nitride composites towards high performance of microwave absorption. Journal of Materials Science and Technology, 2022, 113, 71-81.	5.6	22

#	ARTICLE	IF	CITATIONS
146	A Novel Electrochemical Impedance Immunosensor for Aflatoxin B1 Based on L-cysteine Self-Assembled on Au Nanoparticles-Porous Nitrogen Doped Graphene Modified Electrode. International Journal of Electrochemical Science, 2020, 15, 9669-9682.	0.5	4
147	Reduced Graphene Oxide Filtration Membranes for Dye Removal—Production and Characterization. Materials Proceedings, 2021, 4, 29.	0.2	0
148	One-step synthesis of nitrogen-doped graphene powders and application of them as high-performance symmetrical coin cell supercapacitors in different aqueous electrolyte. International Journal of Energy Research, 2022, 46, 7348-7373.	2.2	15
149	Effect of Grain Boundaries™ Doping on the Mechanical Properties of Nitrogen-Doped Bicrystalline Graphene. Diamond and Related Materials, 2022, 121, 108771.	1.8	4
150	Hierarchical three dimensional polyaniline/N-doped graphene nanocomposite hydrogel for energy storage applications. Energy Storage, 2023, 5, .	2.3	15
151	Synthesis of flower-like manganese oxide for accelerated surface redox reactions on nitrogen-rich graphene of fast charge transport for sustainable aqueous energy storage. Journal of Materials Chemistry A, 2022, 10, 7668-7676.	5.2	5
152	Electrochemical Performance of Nitrogen-Doped Graphene/Silicene Composite as a Pseudocapacitive Anode for Lithium-Ion Battery. ChemistrySelect, 2022, 7, .	0.7	5
153	The Role of Structured Carbon in Downsized Transition Metal-Based Electrocatalysts toward a Green Nitrogen Fixation. Catalysts, 2021, 11, 1529.	1.6	2
154	Recent Progress in N-Doped Graphene: Properties and Applications. Advances in Material Research and Technology, 2022, , 143-158.	0.3	0
155	Doping of Carbon Nanostructures for Energy Application. Advances in Material Research and Technology, 2022, , 83-109.	0.3	3
156	A robust approach for designing N-doped reduced graphene oxide/polyaniline nanocomposite-based electrodes for efficient flexible supercapacitors. Polymers for Advanced Technologies, 2022, 33, 2184-2199.	1.6	0
157	Surface-Adaptive Capillarity Enabling Densified 3D Printing for Ultra-High Areal and Volumetric Energy Density Supercapacitors. Angewandte Chemie - International Edition, 2022, 61, .	7.2	10
158	Chemical vapor deposition-grown nitrogen-doped graphene™s synthesis, characterization and applications. Npj 2D Materials and Applications, 2022, 6, .	3.9	29
159	In situ growth of Ni(OH) ₂ -porous nitrogen-doped graphene composite onto Ni foam support as advanced electrochemical supercapacitors materials. Journal of Materials Science: Materials in Electronics, 2022, 33, 11038-11054.	1.1	5
160	Surface-Adaptive Capillarity Enabling Densified 3D Printing for Ultra-High Areal and Volumetric Energy Density Supercapacitors. Angewandte Chemie, 2022, 134, .	1.6	4
161	First-principles analysis of aluminium interaction with nitrogen-doped graphene nanoribbons “ from adatom bonding to various potential applications. Materials Today Communications, 2022, 31, 103388.	0.9	0
162	Carbon Dots as New Building Blocks for Electrochemical Energy Storage and Electrocatalysis. Advanced Energy Materials, 2022, 12, .	10.2	81
163	Facile Synthesis Sandwich-Structured Ge/NrGO Nanocomposite as Anodes for High-Performance Lithium-Ion Batteries. Crystals, 2021, 11, 1582.	1.0	4

#	ARTICLE	IF	CITATIONS
164	Nitrogen-doping effects on few-layer graphene as an anode material for lithium-ion batteries. <i>Materials Today Communications</i> , 2022, 31, 103498.	0.9	5
165	Structures, properties, and applications of nitrogen-doped graphene. <i>Theoretical and Computational Chemistry</i> , 2022, , 211-248.	0.2	3
166	A powerful approach to develop nitrogen-doped graphene sheets: theoretical and experimental framework. <i>Journal of Materials Science</i> , 0, , .	1.7	3
167	N-doped graphene modulated N-rich carbon nitride realizing a promising all-solid-state flexible supercapacitor. <i>Journal of Energy Storage</i> , 2022, 52, 104731.	3.9	9
168	Triton X-100-directed synthesis of carbon nitride and nitrogen-doped carbon for ethylene dichloride dehydrochlorination. <i>Carbon</i> , 2022, 196, 110-119.	5.4	8
169	Persulfate-nitrogen doped graphene mixture as an oxidant for the synthesis of 3-nitro-4-aryl-2H-chromen-2-ones from aryl alkynoate esters and nitrite. <i>Organic and Biomolecular Chemistry</i> , 0, , .	1.5	3
170	Hierarchical microspheres constructed by NiCo ₂ O ₄ /NiO@C composite nanorods for lithium-ion batteries with enhanced reversible capacity and cycle performance. <i>Journal of Alloys and Compounds</i> , 2022, , 165456.	2.8	5
171	A new approach to prepare N-doped free-standing graphene oxides for vanadium redox flow battery. <i>International Journal of Energy Research</i> , 2022, 46, 19992-20003.	2.2	10
172	Highly efficient two-step nitrogen doping of graphene oxide-based materials in oxygen presence atmosphere for high-performance transistors and electrochemical applications. <i>Journal of Science: Advanced Materials and Devices</i> , 2022, 7, 100481.	1.5	2
173	Position Dependent Effects of the Aza-Substitution on the Electronic Properties and Crystal Structures Based on Hexaazaphenalene Isomers. <i>Asian Journal of Organic Chemistry</i> , 2022, 11, .	1.3	6
174	Accurate prediction of enhanced oil recovery from carbonate reservoir through smart injection of nanoparticle and biosurfactant. <i>Journal of Petroleum Science and Engineering</i> , 2022, 216, 110772.	2.1	3
175	Transfer- and lithography-free CVD of N-doped graphenic carbon thin films on non-metal substrates. <i>Materials Research Bulletin</i> , 2022, 154, 111943.	2.7	4
176	Improving Electroactivity of N-Doped Graphene Derivatives with Electrical Induction Heating. <i>ACS Applied Energy Materials</i> , 0, , .	2.5	1
177	Effects of Nitrogen-Doping or Alumina Films on Graphene as Anode Materials of Lithium-Ion Batteries Verified by In Situ XRD. <i>Journal of Nanomaterials</i> , 2022, 2022, 1-12.	1.5	3
178	The role of surface and structural functionalisation on graphene adsorbent nanomaterial for CO ₂ adsorption application: Recent progress and future prospects. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 167, 112840.	8.2	11
179	Nitrogen-doped hollow carbon polyhedron derived from metal-organic frameworks for supercapacitors. <i>Journal of Energy Storage</i> , 2022, 55, 105485.	3.9	11
180	Heteroatom doping effect of Pt/rGO catalysts for formaldehyde abatement at ambient temperature. <i>Chemical Physics Impact</i> , 2022, 5, 100103.	1.7	3
181	Application of graphene in supercapacitors, batteries, and fuel cells. , 2022, , 209-231.		1

#	ARTICLE	IF	CITATIONS
182	First-Principles Investigation of Adsorption Behaviors, Electronic, Optical, and Gas-Sensing Properties of the Pure and Pd-Decorated GeS ₂ Monolayers. SSRN Electronic Journal, 0, , .	0.4	0
183	Performance of primary battery prototype: Cu/graphene nano sheets//electrolyte//C-ĭ€ (graphite,) Tj ETQq1 1 0.784314 rgBT 6 Overloc	0.3	0
184	From 0D to 2D: N-doped carbon nanosheets for detection of alcohol-based chemical vapours. RSC Advances, 2022, 12, 21440-21451.	1.7	4
185	Theoretical studies on adsorption and migration of atoms/ions on the surface of boron, nitrogen and boron nitride doped graphene. Applied Physics A: Materials Science and Processing, 2022, 128, .	1.1	1
186	A review of graphene-based broad bandwidth microwave absorbing textile-based composites in the low-frequency range. Journal of Industrial Textiles, 2022, 52, 152808372211331.	1.1	1
187	Synthesis of Nitrogen-ĭ€Doped Hierarchical Carbon Derived from Water Hyacinth with High Catalytic Activity for Oxygen Reduction Reaction. ChemistrySelect, 2022, 7, .	0.7	0
188	In situ observation of an atomically modified glassy carbon surface: From synthesis of an Fe-N-C catalyst to intrinsic combined reactions of hydrogen dissociation and the oxygen reduction reaction. Diamond and Related Materials, 2022, 130, 109464.	1.8	0
189	Sensing selectivity of N-doped and laser-pattered graphene-based sensors. Materials Letters, 2022, , 133487.	1.3	0
190	Two-ĭ€Dimensional Ultrathin Graphitic Carbon Nitrides with Extended ĭ€Conjugation as Extraordinary Efficient Hydrogen Evolution Photocatalyst. Small, 2023, 19, .	5.2	16
191	Strategies for enhancing the catalytic activity and electronic conductivity of MOFs-based electrocatalysts. Coordination Chemistry Reviews, 2023, 478, 214969.	9.5	35
192	Enhanced Acetaminophen Electrochemical Sensing Based on Nitrogen-Doped Graphene. International Journal of Molecular Sciences, 2022, 23, 14866.	1.8	5
193	How do Graphene Composite Surfaces Affect the Development and Structure of Marine Cyanobacterial Biofilms?. Coatings, 2022, 12, 1775.	1.2	3
194	Novel Electrochemical Sensor Application for Dopamine and Preparation of N-rGO Micro-regionally Constrained WS ₂ Nanocomposite. Journal of the Electrochemical Society, 2022, 169, 127518.	1.3	3
195	First-Principles Investigation of Adsorption Behaviors and Electronic, Optical, and Gas-Sensing Properties of Pure and Pd-Decorated GeS ₂ Monolayers. ACS Omega, 2022, 7, 46440-46451.	1.6	7
196	Activation of Ibuprofen via Ultrasonic Complexation with Silver in N-Doped Oxidized Graphene Nanoparticles for Microwave Chemotherapy of Cervix Tumor Tissues. ACS Biomaterials Science and Engineering, 2023, 9, 182-196.	2.6	1
197	Defect engineering in carbon materials for electrochemical energy storage and catalytic conversion. Materials Advances, 2023, 4, 835-867.	2.6	11
198	Effect of MoS ₂ in doped-reduced graphene oxide composites. Enhanced electrocatalysis for HER. Electrochimica Acta, 2023, 441, 141781.	2.6	7
199	Comprehensive Review on Nitrogen-Doped Graphene: Structure Characterization, Growth Strategy, and Capacitive Energy Storage. Energy & Fuels, 2023, 37, 902-918.	2.5	8

#	ARTICLE	IF	CITATIONS
200	An Insight into Carbon Nanomaterial-Based Photocatalytic Water Splitting for Green Hydrogen Production. <i>Catalysts</i> , 2023, 13, 66.	1.6	11
201	Exploring 2D materials at surfaces through synchrotron-based core-level photoelectron spectroscopy. <i>Surface Science Reports</i> , 2023, 78, 100586.	3.8	1
202	Doping of Laser-Induced Graphene and Its Applications. <i>Advanced Materials Technologies</i> , 2023, 8, .	3.0	6
203	Modification of graphene with nitrogen and oxygen via radical reactions with simple mechanical treatment. <i>Diamond and Related Materials</i> , 2023, 135, 109857.	1.8	0
204	Core-shell N-doped carbon embedded Co ₃ O ₄ nanoparticles with interconnected and hierarchical porous structure as superior anode materials for lithium-ion batteries. <i>Journal of Energy Storage</i> , 2023, 63, 106998.	3.9	8
205	Low temperature electrical transport in microwave plasma fabricated free-standing graphene and N-graphene sheets. <i>Materials Research Express</i> , 2023, 10, 025602.	0.8	1
206	Facile synthesis of nitrogen-doped graphene, and its advanced electrochemical activity toward efficient lithium ion storage. <i>Functional Materials Letters</i> , 0, , .	0.7	0
207	Catalytic C-C/H Bond Activation Relay for Synthesis of Fluorescent Naphthoquinolinium Salts. <i>European Journal of Organic Chemistry</i> , 2023, 26, .	1.2	1
214	Preparation of Graphene Loaded Cobalt Catalyst and its Oxygen Evolution Performance. , 2023, , .		0
235	Advances in the synthesis of heteroatom-doped graphene-based materials and their application in sensors, adsorbents and catalysis. <i>Analyst</i> , The, 2023, 148, 6201-6222.	1.7	0
237	Promising Ce single-atom-dispersed nitrogen-doped graphene catalysts for the hydrogen evolution reaction. <i>Materials Advances</i> , 2023, 4, 6498-6506.	2.6	0
240	Roles and mechanisms of carbonaceous materials in advanced oxidation coupling processes for degradation organic pollutants in wastewater: a review. <i>Biochar</i> , 2023, 5, .	6.2	3