

Nitrogen-Doped Graphene as Efficient Metal-Free Electrocatalysts for Fuel Cells

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Citation Report

#	ARTICLE	IF	CITATIONS
7	Nitrogen-doped graphene and its electrochemical applications. <i>Journal of Materials Chemistry</i> , 2010, 20, 7491.	6.7	1,040
8	Oxygen dissociation on nitrogen-doped single wall nanotube: A first-principles study. <i>Chemical Physics Letters</i> , 2010, 492, 131-136.	1.2	62
9	Boron- and nitrogen-doped carbon nanotubes and graphene. <i>Inorganica Chimica Acta</i> , 2010, 363, 4163-4174.	1.2	171
10	Enhanced electrochemical sensitivity of PtRh electrodes coated with nitrogen-doped graphene. <i>Electrochemistry Communications</i> , 2010, 12, 1423-1427.	2.3	90
11	Spontaneous, catalyst-free formation of nitrogen-doped graphitic carbon nanocages. <i>Carbon</i> , 2010, 48, 4190-4196.	5.4	19
12	Growth and properties of chemically modified graphene. <i>Physica Status Solidi (B): Basic Research</i> , 2010, 247, 2915-2919.	0.7	15
13	Voltage-induced incandescent light emission from large-area graphene films. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	30
14	Roles of radical characters of pristine and nitrogen-substituted hydrographene in dioxygen bindings. <i>Journal of Chemical Physics</i> , 2010, 133, 174703.	1.2	6
15	Electrochemical ascorbic acid sensor based on DMF-exfoliated graphene. <i>Journal of Materials Chemistry</i> , 2010, 20, 7864.	6.7	224
16	Graphene versus carbon nanotubes for chemical sensor and fuel cell applications. <i>Analyst, The</i> , 2010, 135, 2790.	1.7	150
17	In Search of the Active Site in Nitrogen-Doped Carbon Nanotube Electrodes for the Oxygen Reduction Reaction. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 2622-2627.	2.1	579
18	Self-Assembled Graphene Hydrogel <i>via</i> a One-Step Hydrothermal Process. <i>ACS Nano</i> , 2010, 4, 4324-4330.	7.3	2,999
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20	Metal-Free Carbon Nanomaterials Become More Active than Metal Catalysts and Last Longer. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 2165-2173.	2.1	529
21	Soluble P3HT-Grafted Graphene for Efficient Bilayer Heterojunction Photovoltaic Devices. <i>ACS Nano</i> , 2010, 4, 5633-5640.	7.3	451
22	Graphene electrochemistry: an overview of potential applications. <i>Analyst, The</i> , 2010, 135, 2768.	1.7	481
23	Bio-inspired catalyst compositions for enhanced oxygen reduction using nanostructured Pt electrocatalysts in polymer electrolyte fuel cells. <i>Journal of Materials Chemistry</i> , 2010, 20, 9651.	6.7	5
24	Synthesis of hybrid graphene carbon-coated nanocatalysts. <i>Journal of Materials Chemistry</i> , 2010, 20, 8230.	6.7	18

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25	Metal free, end-opened, selective nitrogen-doped vertically aligned carbon nanotubes by a single step in situ low energy plasma process. <i>Journal of Materials Chemistry</i> , 2011, 21, 16162.	6.7	15
26	Theoretical investigation of formation mechanism of bipyridyl molecule on Ni(111) surface: implication for synthesis of N-doped graphene from pyridine. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 6053.	1.3	5
27	Facile construction of non-precious iron nitride-doped carbon nanofibers as cathode electrocatalysts for proton exchange membrane fuel cells. <i>Chemical Communications</i> , 2011, 47, 2910.	2.2	45
28	Effect of Synthesis Route on Oxygen Reduction Reaction Activity of Carbon-Supported Hafnium Oxynitride in Acid Media. <i>Journal of Physical Chemistry C</i> , 2011, 115, 20610-20617.	1.5	36
29	CoMn ₂ O ₄ Spinel Nanoparticles Grown on Graphene as Bifunctional Catalyst for Lithium-Air Batteries. <i>Journal of the Electrochemical Society</i> , 2011, 158, A1379.	1.3	218
30	Hybrid gold nanoparticle-reduced graphene oxide nanosheets as active catalysts for highly efficient reduction of nitroarenes. <i>Journal of Materials Chemistry</i> , 2011, 21, 15431.	6.7	222
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32	Effect of Hydrogen Termination on Carbon <i>K</i> -Edge X-ray Absorption Spectra of Nanographene. <i>Journal of Physical Chemistry C</i> , 2011, 115, 5392-5403.	1.5	44
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34	Size effect of graphene on electrocatalytic activation of oxygen. <i>Chemical Communications</i> , 2011, 47, 10016.	2.2	212
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36	Controllable healing of defects and nitrogen doping of graphene by CO and NO molecules. <i>Physical Review B</i> , 2011, 83, .	1.1	67
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44	Nitrogen-doped carbon xerogel: A novel carbon-based electrocatalyst for oxygen reduction reaction in proton exchange membrane (PEM) fuel cells. <i>Energy and Environmental Science</i> , 2011, 4, 3389.	15.6	171
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46	The ripple's enhancement in graphene sheets by spark plasma sintering. <i>AIP Advances</i> , 2011, 1, 032170.	0.6	2
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55	Design and synthesis of nitrogen-containing calcined polymer/carbon nanotube hybrids that act as a platinum-free oxygen reduction fuel cell catalyst. <i>Chemical Communications</i> , 2011, 47, 6843.	2.2	39
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65	Visualizing Individual Nitrogen Dopants in Monolayer Graphene. <i>Science</i> , 2011, 333, 999-1003.	6.0	774
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75	Assembly of chemically modified graphene: methods and applications. <i>Journal of Materials Chemistry</i> , 2011, 21, 3311-3323.	6.7	250
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85	A facile route for preparation of non-noble CNF cathode catalysts in alkaline ethanol fuel cells. <i>Electrochimica Acta</i> , 2011, 56, 9186-9190.	2.6	50
86	Heat-treated multi-walled carbon nanotubes as durable supports for PEM fuel cell catalysts. <i>Electrochimica Acta</i> , 2011, 58, 736-742.	2.6	27
87	Electrochemical synthesis of reduced graphene sheet-AuPd alloy nanoparticle composites for enzymatic biosensing. <i>Biosensors and Bioelectronics</i> , 2011, 29, 159-166.	5.3	208
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1705	In situ formation of nitrogen-doped onion-like carbon as catalyst support for enhanced oxygen reduction activity and durability. <i>Carbon</i> , 2016, 101, 420-430.	5.4	43
1706	Electrocatalysis enhancement of iron-based catalysts induced by synergy of methanol and oxygen-containing groups. <i>Nano Energy</i> , 2016, 21, 265-275.	8.2	12
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1708	New trends in the development of heterogeneous catalysts for electrochemical CO ₂ reduction. <i>Catalysis Today</i> , 2016, 270, 19-30.	2.2	259
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1777	Self-constructed carbon nanoparticles-coated porous biocarbon from plant moss as advanced oxygen reduction catalysts. <i>Applied Catalysis B: Environmental</i> , 2016, 181, 635-643.	10.8	88
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1855	Graphene-based Oxygen Reduction Electrodes for Low Temperature Solid Oxide Fuel Cells. <i>Fuel Cells</i> , 2017, 17, 344-352.	1.5	10
1856	Cobalt-nitrogen-activated carbon as catalyst in acetylene hydrochlorination. <i>Catalysis Communications</i> , 2017, 98, 22-25.	1.6	23
1857	Catechol adsorption on graphene nanoplatelets: isotherm, flat to vertical phase transition and desorption kinetics. <i>Chemical Science</i> , 2017, 8, 4771-4778.	3.7	27
1858	Solution processible MoO _x -incorporated graphene anode for efficient polymer light-emitting diodes. <i>Nanotechnology</i> , 2017, 28, 235201.	1.3	4
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1861	Bipolar nitrogen-doped graphene frameworks as high-performance cathodes for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 1588-1594.	5.2	21
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1865	Trapping of gaseous pollutants on defective N-doped graphene. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 636-643.	1.3	10
1866	N-Doping of graphene oxide at low temperature for the oxygen reduction reaction. <i>Chemical Communications</i> , 2017, 53, 873-876.	2.2	121
1867	A noble silver nanoflower on nitrogen doped carbon nanotube for enhanced oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 1075-1084.	3.8	27
1868	Functional Carbon Nanomesh Clusters. <i>Advanced Functional Materials</i> , 2017, 27, 1701514.	7.8	18
1869	Laser in-situ synthesis of SnO ₂ /N-doped graphene nanocomposite with enhanced lithium storage properties based on both alloying and insertion reactions. <i>Applied Surface Science</i> , 2017, 422, 645-653.	3.1	18
1870	Carbon-based catalysts for metal-free electrocatalysis. <i>Current Opinion in Electrochemistry</i> , 2017, 4, 18-25.	2.5	88
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1879	Unique copper and reduced graphene oxide nanocomposite toward the efficient electrochemical reduction of carbon dioxide. <i>Scientific Reports</i> , 2017, 7, 3184.	1.6	64
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1890	Ice-templating synthesis of macroporous noble metal/3D-graphene nanocomposites: their fluorescence lifetimes and catalytic study. <i>New Journal of Chemistry</i> , 2017, 41, 7861-7869.	1.4	24
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1895	Nitrogen doping for facile and effective modification of graphene surfaces. <i>RSC Advances</i> , 2017, 7, 28383-28392.	1.7	45
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1899	Synthesis, characterization and prospective applications of nitrogen-doped graphene: A short review. <i>Journal of Science: Advanced Materials and Devices</i> , 2017, 2, 141-149.	1.5	123
1900	Influence of various carbon nano-forms as supports for Pt catalyst on proton exchange membrane fuel cell performance. <i>Journal of Power Sources</i> , 2017, 360, 196-205.	4.0	91
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1904	Fe/N co-doped carbon materials with controllable structure as highly efficient electrocatalysts for oxygen reduction reaction in Al-air batteries. <i>Energy Storage Materials</i> , 2017, 8, 49-58.	9.5	70
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1906	First-principles identification of site dependent activity of graphene based electrocatalyst. <i>Molecular Catalysis</i> , 2017, 432, 242-249.	1.0	6
1907	Simultaneous Co-Doping of Nitrogen and Fluorine into MWCNTs: An In-Situ Conversion to Graphene Like Sheets and Its Electro-Catalytic Activity toward Oxygen Reduction Reaction. <i>Journal of the Electrochemical Society</i> , 2017, 164, F568-F576.	1.3	31
1908	3D interconnected hierarchically porous N-doped carbon with NH ₃ activation for efficient oxygen reduction reaction. <i>Applied Catalysis B: Environmental</i> , 2017, 210, 57-66.	10.8	131
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1910	Pyridinic and graphitic nitrogen-rich graphene for high-performance supercapacitors and metal-free bifunctional electrocatalysts for ORR and OER. <i>RSC Advances</i> , 2017, 7, 17950-17958.	1.7	123
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1920	Nitrogen-doped truncated carbon nanotubes inserted into nitrogen-doped graphene nanosheets with a sandwich structure: a highly efficient metal-free catalyst for the HER. <i>Journal of Materials Chemistry A</i> , 2017, 5, 6405-6410.	5.2	38
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1922	Graphene-Based Nanomaterials for Catalysis. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 3477-3502.	1.8	234
1923	One-Step Electrochemical Preparation of Multilayer Graphene Functionalized with Nitrogen. <i>Nanoscale Research Letters</i> , 2017, 12, 175.	3.1	31
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1925	Temperature distribution in graphene doped with nitrogen and graphene with grain boundary. <i>Journal of Molecular Graphics and Modelling</i> , 2017, 74, 100-104.	1.3	14
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1929	From Trash to Treasure: Turning Air Pollutants into Materials for Energy Storage. <i>ChemNanoMat</i> , 2017, 3, 392-400.	1.5	4
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1932	Ionic liquid modified N-doped graphene as a potential platform for the electrochemical discrimination of DNA sequences. <i>Sensors and Actuators B: Chemical</i> , 2017, 247, 556-563.	4.0	21
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1936	Multifunctional Carbon-Based Metal-Free Electrocatalysts for Simultaneous Oxygen Reduction, Oxygen Evolution, and Hydrogen Evolution. <i>Advanced Materials</i> , 2017, 29, 1604942.	11.1	606
1937	Template-directed synthesis of nitrogen- and sulfur-codoped carbon nanowire aerogels with enhanced electrocatalytic performance for oxygen reduction. <i>Nano Research</i> , 2017, 10, 1888-1895.	5.8	34
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1939	Sacrificial Templating Fabrication of Hierarchically Porous Nitrogen-Doped Carbon Nanosheets as Superior Oxygen Reduction Electrocatalysts. <i>ChemNanoMat</i> , 2017, 3, 130-134.	1.5	1
1940	CuO nanoparticles supported on nitrogen and sulfur co-doped graphene nanocomposites for non-enzymatic glucose sensing. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	0.8	16
1941	Highly exposed Fe ^{N₄} active sites in porous poly-iron-phthalocyanine based oxygen reduction electrocatalyst with ultrahigh performance for air cathode. <i>Dalton Transactions</i> , 2017, 46, 1803-1810.	1.6	32
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1943	Improvement of methane uptake inside graphene sheets using nitrogen, boron and lithium-doped structures: A hybrid molecular simulation. <i>Korean Journal of Chemical Engineering</i> , 2017, 34, 876-884.	1.2	8
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1945	1D Co- and N-Doped Hierarchically Porous Carbon Nanotubes Derived from Bimetallic Metal Organic Framework for Efficient Oxygen and Triiodide Reduction Reactions. <i>Advanced Energy Materials</i> , 2017, 7, 1601979.	10.2	194
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1947	New catalyst supports prepared by surface modification of graphene- and carbon nanotube structures with nitrogen containing carbon coatings. <i>Journal of Power Sources</i> , 2017, 341, 240-249.	4.0	28
1948	Highly active and stable single iron site confined in graphene nanosheets for oxygen reduction reaction. <i>Nano Energy</i> , 2017, 32, 353-358.	8.2	234
1949	Facile approach for synthesis of doped carbon electrocatalyst from cellulose nanofibrils toward high-performance metal-free oxygen reduction and hydrogen evolution. <i>Nano Energy</i> , 2017, 32, 336-346.	8.2	132
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1953	Synthesis and characterization of amine functionalized graphene oxide and scope as catalyst for Knoevenagel condensation reaction. <i>Catalysis Communications</i> , 2017, 92, 31-34.	1.6	58
1954	Scalable 3-D Carbon Nitride Sponge as an Efficient Metal-Free Bifunctional Oxygen Electrocatalyst for Rechargeable Zn-Air Batteries. <i>ACS Nano</i> , 2017, 11, 347-357.	7.3	369
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1957	Electropolymerization Fabrication of Co Phosphate Nanoparticles Encapsulated in N,P-Codoped Mesoporous Carbon Networks as a 3D Integrated Electrode for Full Water Splitting. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 571-579.	3.2	34
1958	Graphene and derivatives – Synthesis techniques, properties and their energy applications. <i>Energy</i> , 2017, 140, 766-778.	4.5	119
1959	Synthesis of W ₂ N nanorods-graphene hybrid structure with enhanced oxygen reduction reaction performance. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 25924-25932.	3.8	14
1960	Simultaneous analysis of uric acid, xanthine and hypoxanthine using voltammetric sensor based on nanocomposite of palygorskite and nitrogen doped graphene. <i>Journal of Electroanalytical Chemistry</i> , 2017, 805, 159-170.	1.9	44
1961	Low friction of graphene nanocrystallite embedded carbon nitride coatings prepared with MCECR plasma sputtering. <i>Surface and Coatings Technology</i> , 2017, 332, 153-160.	2.2	14
1962	Fast Synthesis of Highly Oxidized Graphene Oxide. <i>ChemistrySelect</i> , 2017, 2, 9000-9006.	0.7	29
1963	Synthesis of Nitrogen-Doped Porous Carbon Spheres with Improved Porosity toward the Electrocatalytic Oxygen Reduction. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 11105-11116.	3.2	61
1964	Coffee Waste-Derived Hierarchical Porous Carbon as a Highly Active and Durable Electrocatalyst for Electrochemical Energy Applications. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 41303-41313.	4.0	74
1965	Platinum-free, graphene based anodes and air cathodes for single chamber microbial fuel cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 23872-23886.	5.2	45
1966	Achievement of safer palladium nanocrystals by enlargement of {100} crystallographic facets. <i>Nanotoxicology</i> , 2017, 11, 907-922.	1.6	11
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1968	Synthesis of Few-Layer Graphene by Peeling Graphite Flakes via Electron Exchange in Solution Plasma. <i>Journal of Physical Chemistry C</i> , 2017, 121, 23793-23802.	1.5	14
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1972	Tailoring platelet carbon nanofibers for high-purity Pyridinic-N doping: A novel method for synthesizing oxygen reduction reaction catalysts. <i>Carbon</i> , 2017, 125, 401-408.	5.4	49
1973	Synthesis of dimethyl carbonate on single Cu atom embedded in N-doped graphene: Effect of nitrogen species. <i>Molecular Catalysis</i> , 2017, 443, 1-13.	1.0	16
1974	The Oxygen Reduction Reaction on Graphene from Quantum Mechanics: Comparing Armchair and Zigzag Carbon Edges. <i>Journal of Physical Chemistry C</i> , 2017, 121, 24408-24417.	1.5	29
1975	Metallic Cobalt@Nitrogen-Doped Carbon Nanocomposites: Carbon-Shell Regulation toward Efficient Bi-Functional Electrocatalysis. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 37721-37730.	4.0	59
1976	Nitrogen-Doped Graphene Nanosheets/S Composites as Cathode in Room-Temperature Sodium-Sulfur Batteries. <i>ChemistrySelect</i> , 2017, 2, 9425-9432.	0.7	30
1977	Phenolic resin/chitosan composite derived nitrogen-doped carbon as highly durable and anti-poisoning electrocatalyst for oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 26704-26712.	3.8	7
1978	Co Nanoparticles Encapsulated in N-Doped Carbon Nanosheets: Enhancing Oxygen Reduction Catalysis without Metal-Nitrogen Bonding. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 38499-38506.	4.0	42
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1983	Highly Microporous Nitrogen-Doped Carbon Synthesized from Azine-Linked Covalent Organic Framework and its Supercapacitor Function. <i>Chemistry - A European Journal</i> , 2017, 23, 17504-17510.	1.7	67
1984	Efficient and Durable Oxygen Reduction Electrocatalyst Based on CoMn Alloy Oxide Nanoparticles Supported Over N-Doped Porous Graphene. <i>ACS Catalysis</i> , 2017, 7, 6700-6710.	5.5	104
1985	From <i>Chlorella</i> to Nestlike Framework Constructed with Doped Carbon Nanotubes: A Biomass-Derived, High-Performance, Bifunctional Oxygen Reduction/Evolution Catalyst. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 32168-32178.	4.0	63
1986	Exploring an effective oxygen reduction reaction catalyst via 4e ⁻ process based on waved-graphene. <i>Science China Materials</i> , 2017, 60, 739-746.	3.5	11
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1990	Cobalt Oxide on N-Doped Carbon for 1-Butene Oligomerization to Produce Linear Octenes. <i>ACS Catalysis</i> , 2017, 7, 7479-7489.	5.5	17
1991	Ball-Milled Carbon Nanomaterials for Energy and Environmental Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 9568-9585.	3.2	187
1992	High-Stability Electrodes for High-Temperature Proton Exchange Membrane Fuel Cells by Using Advanced Nanocarbonaceous Materials. <i>ChemElectroChem</i> , 2017, 4, 3288-3295.	1.7	8
1993	Molecular-Level Insights into Oxygen Reduction Catalysis by Graphite-Conjugated Active Sites. <i>ACS Catalysis</i> , 2017, 7, 7680-7687.	5.5	33
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2001	A Facile and Versatile Electrochemical Tuning of Graphene for Oxygen Reduction Reaction in Acidic, Neutral and Alkali media. <i>ChemistrySelect</i> , 2017, 2, 8541-8552.	0.7	2
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2008	Revealing impact of plasma condition on graphite nanostructures and effective charge doping of graphene. <i>Carbon</i> , 2017, 123, 174-185.	5.4	7
2009	Edges of graphene and carbon nanotubes with high catalytic performance for the oxygen reduction reaction. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 21003-21011.	1.3	15
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2011	The Neglected Significant Role for Graphene-Based Acetylene Hydrochlorination Catalysts – Intrinsic Graphene Defects. <i>ChemistrySelect</i> , 2017, 2, 6016-6022.	0.7	21
2012	Low cost iodine doped graphene for fuel cell electrodes. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 26877-26888.	3.8	31
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2015	Few-layer MoS ₂ as nitrogen protective barrier. <i>Nanotechnology</i> , 2017, 28, 415706.	1.3	6
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2037	Introduction of sulfur to graphene oxide by Friedel-Crafts reaction. <i>FlatChem</i> , 2017, 6, 28-36.	2.8	7
2038	Generalized Synthesis of a Family of Highly Heteroatom-Doped Ordered Mesoporous Carbons. <i>Chemistry of Materials</i> , 2017, 29, 10178-10186.	3.2	74
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2041	Self-template synthesis of biomass-derived 3D hierarchical N-doped porous carbon for simultaneous determination of dihydroxybenzene isomers. <i>Scientific Reports</i> , 2017, 7, 14985.	1.6	21
2042	Dissociation of O ₂ molecule on Fe/N _x clusters embedded in C ₆₀ fullerene, carbon nanotube and graphene. <i>Synthetic Metals</i> , 2017, 234, 38-46.	2.1	28

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2056	One-step and low-temperature synthesis of iodine-doped graphene and its multifunctional applications for hydrogen evolution reaction and electrochemical sensing. <i>Electrochimica Acta</i> , 2017, 246, 1155-1162.	2.6	26
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2059	A facile approach to tailoring electrocatalytic activities of imine-rich nitrogen-doped graphene for oxygen reduction reaction. <i>Carbon</i> , 2017, 122, 515-523.	5.4	25
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2063	Synergistically enhanced activity of nitrogen-doped carbon dots/graphene composites for oxygen reduction reaction. <i>Applied Surface Science</i> , 2017, 423, 909-916.	3.1	44
2064	Highly microporous nitrogen doped graphene-like carbon material as an efficient fuel cell catalyst. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 19903-19912.	3.8	14
2065	Graphene-Based Functional Architectures: Sheets Regulation and Macrostructure Construction toward Actuators and Power Generators. <i>Accounts of Chemical Research</i> , 2017, 50, 1663-1671.	7.6	92
2066	Single-Atomic Ruthenium Catalytic Sites on Nitrogen-Doped Graphene for Oxygen Reduction Reaction in Acidic Medium. <i>ACS Nano</i> , 2017, 11, 6930-6941.	7.3	435
2067	Watermelon-like Rh _x S _y @C nanospheres: phase evolution and its influence on the electrocatalytic performance for oxygen reduction reaction. <i>Journal of Materials Science</i> , 2017, 52, 11402-11412.	1.7	5
2068	Reversible hydrogen adsorption on Co/N ₄ cluster embedded in graphene: The role of charge manipulation. <i>Chemical Physics</i> , 2017, 493, 85-90.	0.9	25
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2070	A highly active and stable La _{0.5} Sr _{0.5} Ni _{0.4} Fe _{0.6} O _{3-δ} perovskite electrocatalyst for oxygen evolution reaction in alkaline media. <i>Electrochimica Acta</i> , 2017, 246, 997-1003.	2.6	41
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2078	Improved performance of a single chamber microbial fuel cell using nitrogen-doped polymer-metal-carbon nanocomposite-based air-cathode. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 3271-3280.	3.8	53

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2080	Highly efficient nitrogen-doped carbide-derived carbon materials for oxygen reduction reaction in alkaline media. <i>Carbon</i> , 2017, 113, 159-169.	5.4	88
2081	Plasma-etched, S-doped graphene for effective hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 4184-4192.	3.8	67
2082	Nanoscale Engineering of Efficient Oxygen Reduction Electrocatalysts by Tailoring the Local Chemical Environment of Pt Surface Sites. <i>ACS Catalysis</i> , 2017, 7, 17-24.	5.5	44
2083	Enhancing Electrocatalytic Performance of Bifunctional Cobalt-Manganese Oxynitride Nanocatalysts on Graphene. <i>ChemSusChem</i> , 2017, 10, 68-73.	3.6	28
2084	3D cobalt-embedded nitrogen-doped graphene xerogel as an efficient electrocatalyst for oxygen reduction reaction in an alkaline medium. <i>Journal of Applied Electrochemistry</i> , 2017, 47, 13-23.	1.5	6
2085	Electrocatalytic Oxygen Evolution Reaction in Acidic Environments – Reaction Mechanisms and Catalysts. <i>Advanced Energy Materials</i> , 2017, 7, 1601275.	10.2	847
2086	Heteroatom-doped graphene as electrocatalysts for air cathodes. <i>Materials Horizons</i> , 2017, 4, 7-19.	6.4	142
2087	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.	2.2	73
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2090	Applications of graphene in microbial fuel cells: The gap between promise and reality. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 72, 1389-1403.	8.2	148
2091	Reusable DNA-functionalized-graphene for ultrasensitive mercury (II) detection and removal. <i>Biosensors and Bioelectronics</i> , 2017, 87, 129-135.	5.3	57
2092	Simple solution-based synthesis of pyridinic-rich nitrogen-doped graphene nanoplatelets for supercapacitors. <i>Applied Energy</i> , 2017, 195, 1071-1078.	5.1	60
2093	In situ one-pot preparation of reduced graphene oxide/polyaniline composite for high-performance electrochemical capacitors. <i>Applied Surface Science</i> , 2017, 392, 71-79.	3.1	85
2094	Noble-metal-free hetero-structural CdS/Nb2O5/N-doped-graphene ternary photocatalytic system as visible-light-driven photocatalyst for hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2017, 201, 202-210.	10.8	153
2095	Oxygen-Molecule Adsorption and Dissociation on BCN Graphene: A First-Principles Study. <i>ChemPhysChem</i> , 2017, 18, 101-110.	1.0	11
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2099	Electrically Rechargeable Zinc Air Batteries: Progress, Challenges, and Perspectives. <i>Advanced Materials</i> , 2017, 29, 1604685.	11.1	1,143
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2101	Synthesis and Characterization Carbon Nanotubes Doped Carbon Aerogels. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 275, 012006.	0.3	1
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2103	Direct synthesis of Pt-free catalyst on gas diffusion layer of fuel cell and usage of high boiling point fuels for efficient utilization of waste heat. <i>Applied Energy</i> , 2017, 205, 1050-1058.	5.1	20
2104	In situ fabrication of nickel based oxide on nitrogen-doped graphene for high electrochemical performance supercapacitors. <i>Chemical Physics Letters</i> , 2017, 685, 457-464.	1.2	15
2105	Nitrogen-doped Graphene Modified Glassy Carbon Electrode for Electrochemical Determination of Breast Cancer Marker Carbohydrate Antigen 15-3. <i>International Journal of Electrochemical Science</i> , 2017, 12, 8280-8287.	0.5	5
2106	4. Controlled Chemical Synthesis in CVD Graphene. , 2017, , .		1
2108	Metal-Free Carbon-Based Materials: Promising Electrocatalysts for Oxygen Reduction Reaction in Microbial Fuel Cells. <i>International Journal of Molecular Sciences</i> , 2017, 18, 25.	1.8	67
2109	N-Doped Carbon Xerogels as Pt Support for the Electro-Reduction of Oxygen. <i>Materials</i> , 2017, 10, 1092.	1.3	31
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2111	A Review of Theoretical Studies on Functionalized Graphene for Electrochemical Energy Conversion and Storage Applications. <i>Current Physical Chemistry</i> , 2017, 6, 244-265.	0.1	1
2112	Green Synthesis of N-doped Graphene Nanosheets by Cow Urine. <i>Current Graphene Science</i> , 2017, 1, .	0.5	8
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2114	Controlled Chemical Synthesis in CVD Graphene. <i>ChemistrySelect</i> , 2017, 2, .	0.7	7
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2122	Biomass chitosan derived cobalt/nitrogen doped carbon nanotubes for the electrocatalytic oxygen reduction reaction. Journal of Materials Chemistry A, 2018, 6, 5740-5745.	5.2	113
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2127	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.	3.2	62
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2129	Manganese deception on graphene and implications in catalysis. Carbon, 2018, 132, 623-631.	5.4	54
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2131	Facile synthesis of nitrogen-doped graphene frameworks for enhanced performance of hole transport material-free perovskite solar cells. Journal of Materials Chemistry C, 2018, 6, 3097-3103.	2.7	38
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2135	CVD grown graphene as catalyst for acid electrolytes. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 10710-10716.	3.8	21
2136	Non-platinum metal-organic framework based electro-catalyst for promoting oxygen reduction reaction. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	1
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2147	Homogeneously Dispersed Co ₉ S ₈ Anchored on Nitrogen and Sulfur Co-Doped Carbon Derived from Soybean as Bifunctional Oxygen Electrocatalysts and Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 16436-16448.	4.0	57
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2165	Enhanced electrochemical performance of nitrogen-doped graphene and poly[Ni(salen)] composite electrodes for supercapacitors. <i>Ionics</i> , 2018, 24, 3143-3153.	1.2	7
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