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## Review on Recent Progress in Nitrogen-Doped Graphene: Synthesis, Characterization, and Its Potential Applications

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2164	Controllable synthesis of doped graphene and its applications. <b>2014</b> , 10, 2975-91	46
2163	Atomistic origins of high rate capability and capacity of N-doped graphene for lithium storage. <b>2014</b> , 14, 1164-71	271
2162	Doped graphene for metal-free catalysis. <b>2014</b> , 43, 2841-57	608
2161	Transforming hair into heteroatom-doped carbon with high surface area. <b>2014</b> , 10, 2625-36	113
2160	Semiconducting channel self-imposed in metallic graphene using an oxygen ion reaction. <b>2014</b> , 64, 283-288	
2159	From single crystal surfaces to single atoms: investigating active sites in electrocatalysis. <b>2014</b> , 6, 4012-26	53
2158	Vertical junction photodetectors based on reduced graphene oxide/silicon Schottky diodes. <b>2014</b> , 6, 4909-14	88
2157	Excavated Fe-N-C sites for enhanced electrocatalytic activity in the oxygen reduction reaction. <b>2014</b> , 7, 1289-94	33
2156	Facile synthesis of nitrogen-doped graphene supported AuPd-CeO <sub>2</sub> nanocomposites with high-performance for hydrogen generation from formic acid at room temperature. <b>2014</b> , 6, 3073-7	89
2155	Nitrogen-doped graphene oxide quantum dots as photocatalysts for overall water-splitting under visible light illumination. <b>2014</b> , 26, 3297-303	642
2154	A DFT investigation of CO adsorption on VIII B transition metal-doped graphene sheets. <b>2014</b> , 67, 110-117	111
2153	A general approach for fabrication of nitrogen-doped graphene sheets and its application in supercapacitors. <b>2014</b> , 417, 270-7	74
2152	Origin of the electrocatalytic oxygen reduction activity of graphene-based catalysts: a roadmap to achieve the best performance. <b>2014</b> , 136, 4394-403	794
2151	Highly graphitized nitrogen-doped porous carbon nanopolyhedra derived from ZIF-8 nanocrystals as efficient electrocatalysts for oxygen reduction reactions. <b>2014</b> , 6, 6590-602	594
2150	25th anniversary article: Chemically modified/doped carbon nanotubes & graphene for optimized nanostructures & nanodevices. <b>2014</b> , 26, 40-66	432
2149	A radar-like iron based nanohybrid as an efficient and stable electrocatalyst for oxygen reduction. <b>2014</b> , 2, 6703-6707	16
2148	Graphene production via electrochemical reduction of graphene oxide: Synthesis and characterisation. <b>2014</b> , 251, 422-434	388

2147	Application of N-doped graphene modified carbon ionic liquid electrode for direct electrochemistry of hemoglobin. <b>2014</b> , 39, 86-91	20
2146	Conversion of pyrazoline to pyrazole in hydrazine treated N-substituted reduced graphene oxide films obtained by ion bombardment and their electrical properties. <b>2014</b> , 74, 32-43	21
2145	Silicon carbide-derived carbon nanocomposite as a substitute for mercury in the catalytic hydrochlorination of acetylene. <b>2014</b> , 5, 3688	160
2144	In situ nitrogen-doped nanoporous carbon nanocables as an efficient metal-free catalyst for oxygen reduction reaction. <b>2014</b> , 2, 10154	67
2143	Carbon as catalyst and support for electrochemical energy conversion. <b>2014</b> , 75, 5-42	359
2142	Larger-scale fabrication of N-doped graphene-fiber mats used in high-performance energy storage. <b>2014</b> , 252, 113-121	44
2141	A Review of Graphene-Based Nanostructural Materials for Both Catalyst Supports and Metal-Free Catalysts in PEM Fuel Cell Oxygen Reduction Reactions. <b>2014</b> , 4, 1301523	365
2140	A density functional theory study on the adsorption and decomposition of methanol on B12N12 fullerene-like nanocage. <b>2014</b> , 67, 54-60	60
2139	Bicontinuous nanoporous N-doped graphene for the oxygen reduction reaction. <b>2014</b> , 26, 4145-50	229
2138	Direct solvothermal synthesis of B/N-doped graphene. <b>2014</b> , 53, 2398-401	57
2137	Recent Advances in the Stabilization of Platinum Electrocatalysts for Fuel-Cell Reactions. <b>2014</b> , 6, 26-45	155
2136	Palladium Nanoparticles Supported on Nitrogen-Doped Carbon Nanofibers: Synthesis, Microstructure, Catalytic Properties, and Self-Sustained Oscillation Phenomena in Carbon Monoxide Oxidation. <b>2014</b> , 6, 2115-2128	36
2135	Nitrogen ion casting on vertically aligned carbon nanotubes: Tip and sidewall chemical modification. <b>2014</b> , 77, 319-328	35
2134	Strongly veined carbon nanoleaves as a highly efficient metal-free electrocatalyst. <b>2014</b> , 53, 6905-9	148
2133	Carbocatalysis by graphene-based materials. <b>2014</b> , 114, 6179-212	512
2132	Nitrogen-Doped Mesoporous Carbon Promoted Chemical Adsorption of Sulfur and Fabrication of High-Areal-Capacity Sulfur Cathode with Exceptional Cycling Stability for Lithium-Sulfur Batteries. <b>2014</b> , 24, 1243-1250	820
2131	Synthesis of nitrogen-doped graphene/ZnO nanocomposites with improved photocatalytic activity. <b>2014</b> , 129, 170-173	28
2130	Deactivation of carbon electrode for elimination of carbon dioxide evolution from rechargeable lithium-oxygen cells. <b>2014</b> , 5, 3937	71

2129	Chemical vapor deposition of N-doped graphene and carbon films: the role of precursors and gas phase. <b>2014</b> , 8, 3337-46	107
2128	Facile Synthesis and Electrochemical Properties of Co3S4-Nitrogen-Doped Graphene Nanocomposites for Supercapacitor Applications. <b>2014</b> , 26, 199-208	49
2127	Catalyst-free synthesis of crumpled boron and nitrogen co-doped graphite layers with tunable bond structure for oxygen reduction reaction. <b>2014</b> , 8, 3313-21	222
2126	Pyridyne cycloaddition of graphene: External active sites for oxygen reduction reaction. <b>2014</b> , 2, 897-901	30
2125	Solution-processed PEDOT:PSS/graphene composites as the electrocatalyst for oxygen reduction reaction. <b>2014</b> , 6, 3587-93	97
2124	Enhanced storage capability and kinetic processes by pores- and hetero-atoms- riched carbon nanobubbles for lithium-ion and sodium-ion batteries anodes. <b>2014</b> , 4, 81-87	198
2123	Hierarchically porous graphene sheets and graphitic carbon nitride intercalated composites for enhanced oxygen reduction reaction. <b>2014</b> , 2, 3209-3215	49
2122	Boron-doped graphene as a high-efficiency counter electrode for dye-sensitized solar cells. <b>2014</b> , 50, 3328-30	99
2121	Nitrogen-containing graphene analyzed by X-ray photoelectron spectroscopy. <b>2014</b> , 70, 59-74	94
2120	Layer-by-layer construction of caterpillar-like reduced graphene oxide/poly(aniline-co-o-aminophenol)Pd nanofiber on glassy carbon electrode and its application as a bromate sensor. <b>2014</b> , 115, 504-510	23
2119	Nitrogen-doped hierarchical lamellar porous carbon synthesized from the fish scale as support material for platinum nanoparticle electrocatalyst toward the oxygen reduction reaction. <b>2014</b> , 6, 819-25	34
2118	Facile synthesis of P-doped carbon quantum dots with highly efficient photoluminescence. <b>2014</b> , 4, 5465	148
2117	Segregation of sublattice domains in nitrogen-doped graphene. <b>2014</b> , 136, 1391-7	73
2116	MoS2. <b>2014</b> ,	36
2115	Rapid synthesis of nitrogen-doped graphene for a lithium ion battery anode with excellent rate performance and super-long cyclic stability. <b>2014</b> , 16, 1060-6	127
2114	Facile preparation of 2D sandwich-like CdS nanoparticles/nitrogen-doped reduced graphene oxide hybrid nanosheets with enhanced photoelectrochemical properties. <b>2014</b> , 2, 19815-19821	41
2113	One-Pot Synthesis of Cobalt-Incorporated Nitrogen-Doped Reduced Graphene Oxide as an Oxygen Reduction Reaction Catalyst in Alkaline Medium. <b>2014</b> , 1, 2163-2171	31
2112	Chemical preparation of graphene materials results in extensive unintentional doping with heteroatoms and metals. <b>2014</b> , 20, 15760-7	33

2111	A theoretical study of the interaction of hydrogen and oxygen with palladium or gold adsorbed on pyridine-like nitrogen-doped graphene. <b>2014</b> , 15, 4042-8	16
2110	A unique architecture based on 1 D semiconductor, reduced graphene oxide, and chalcogenide with multifunctional properties. <b>2014</b> , 20, 10456-65	11
2109	Dyeing bacterial cellulose pellicles for energetic heteroatom doped carbon nanofiber aerogels. <b>2014</b> , 7, 1861-1872	84
2108	Stability and spectroscopy of single nitrogen dopants in graphene at elevated temperatures. <b>2014</b> , 8, 11806-15	39
2107	Biosynthesis approach to nitrogen doped graphene by denitrifying bacteria CFMI-1. <b>2014</b> , 4, 40292-40295	6
2106	Selective oxidative conversion of triaryldihydro[C59N]fullerenes: a model case for oxygenation of carbon allotropes. <b>2014</b> , 50, 2021-3	8
2105	Block copolymer-templated nitrogen-enriched nanocarbons with morphology-dependent electrocatalytic activity for oxygen reduction. <b>2014</b> , 5, 3315	37
2104	Synthesis of an efficient heteroatom-doped carbon electro-catalyst for oxygen reduction reaction by pyrolysis of protein-rich pulse flour cooked with SiO <sub>2</sub> nanoparticles. <b>2014</b> , 16, 4251-9	40
2103	Electrocatalytic activity for the oxygen reduction reaction of oxygen-containing nanocarbon synthesized by solution plasma. <b>2014</b> , 2, 10589	53
2102	Synthesis and assembly of nanomaterials under magnetic fields. <b>2014</b> , 6, 14064-105	104
2101	Nitrogen-doped activated carbon with micrometer-scale channels derived from luffa sponge fibers as electrocatalysts for oxygen reduction reaction with high stability in acidic media. <b>2014</b> , 149, 56-64	53
2100	Ultrasmall MnO@N-rich carbon nanosheets for high-power asymmetric supercapacitors. <b>2014</b> , 2, 12519	79
2099	Synthesis of nitrogen-doped graphene by chemical vapour deposition using melamine as the sole solid source of carbon and nitrogen. <b>2014</b> , 2, 7396	68
2098	Design and synthesis of carbonized polypyrrole-coated graphene aerogel acting as an efficient metal-free catalyst for oxygen reduction. <b>2014</b> , 4, 16979-16984	23
2097	One-step synthesis of sulfur doped graphene foam for oxygen reduction reactions. <b>2014</b> , 43, 3420-3	73
2096	Two and three dimensional network polymers for electrocatalysis. <b>2014</b> , 16, 11150-61	8
2095	Nitrogen and sulfur co-doped graphene counter electrodes with synergistically enhanced performance for dye-sensitized solar cells. <b>2014</b> , 2, 12232-12239	111
2094	A promising monolayer membrane for oxygen separation from harmful gases: nitrogen-substituted polyphenylene. <b>2014</b> , 6, 9960-4	47

2093	Ultrathin MnO(2) nanoflakes as efficient catalysts for oxygen reduction reaction. <b>2014</b> , 50, 7885-8	103
2092	Dopamine-induced Pt and N-doped carbon@silica hybrids as high-performance anode catalysts for polymer electrolyte membrane fuel cells. <b>2014</b> , 4, 42582-42584	10
2091	Nitrogen-Doped Graphene/Platinum Counter Electrodes for Dye-Sensitized Solar Cells. <b>2014</b> , 1, 1264-1269	33
2090	A density function theory study on the NO reduction on nitrogen doped graphene. <b>2014</b> , 16, 20561-9	49
2089	In situ solution plasma synthesis of nitrogen-doped carbon nanoparticles as metal-free electrocatalysts for the oxygen reduction reaction. <b>2014</b> , 2, 18677-18686	74
2088	A simple approach towards nitrogen-doped graphene and metal/graphene by solid-state pyrolysis of metal phthalocyanine. <b>2014</b> , 38, 2993-2998	12
2087	Dually functional, N-doped porous graphene foams as counter electrodes for dye-sensitized solar cells. <b>2014</b> , 16, 21820-6	29
2086	Plasma synthesis of nitrogen-doped porous graphene supporting Pd nanoparticles as a new catalyst for C-C coupling reactions. <b>2014</b> , 4, 26804	19
2085	Functionalization of graphene with nitrogen using ethylenediaminetetraacetic acid and their electrochemical energy storage properties. <b>2014</b> , 4, 24248	18
2084	Supercritical fluid processing of nitric acid treated nitrogen doped graphene with enhanced electrochemical supercapacitance. <b>2014</b> , 4, 52256-52262	47
2083	A 3D hybrid of layered MoS <sub>2</sub> /nitrogen-doped graphene nanosheet aerogels: an effective catalyst for hydrogen evolution in microbial electrolysis cells. <b>2014</b> , 2, 13795-13800	172
2082	FTO-free counter electrodes for dye-sensitized solar cells using carbon nanosheets synthesised from a polymeric carbon source. <b>2014</b> , 16, 17595-602	10
2081	Submerged liquid plasma low energy synthesis of nitrogen-doped graphene for electrochemical applications. <b>2014</b> , 2, 3332-3337	45
2080	Hexamethylenetetramine mediated simultaneous nitrogen doping and reduction of graphene oxide for a metal-free SERS substrate. <b>2014</b> , 4, 44146-44150	11
2079	Nitrogen-doped open pore channeled graphene facilitating electrochemical performance of TiO <sub>2</sub> nanoparticles as an anode material for sodium ion batteries. <b>2014</b> , 2, 5182-5186	116
2078	Activated carbon with micrometer-scale channels prepared from luffa sponge fibers and their application for supercapacitors. <b>2014</b> , 4, 35789-35796	36
2077	From two-dimension to one-dimension: the curvature effect of silicon-doped graphene and carbon nanotubes for oxygen reduction reaction. <b>2014</b> , 16, 17479-86	42
2076	Luminescent CePO <sub>4</sub> /TiO <sub>2</sub> colloids for H <sub>2</sub> O <sub>2</sub> and glucose sensing. <b>2014</b> , 139, 4547-55	47



2075	Nitrogen/sulfur co-doped non-noble metal material as an efficient electrocatalyst for the oxygen reduction reaction in alkaline media. <b>2014</b> , 4, 19756-19765	15
2074	Biomass-derived three-dimensional porous N-doped carbonaceous aerogel for efficient supercapacitor electrodes. <b>2014</b> , 4, 23412	61
2073	Activated nitrogen doped graphene shell towards electrochemical oxygen reduction reaction by its encapsulation on Au nanoparticle (Au@N-Gr) in water-in-oil nanoreactors <b>2014</b> , 2, 1383-1390	32
2072	Preparation of N-doped graphene by reduction of graphene oxide with mixed microbial system and its haemocompatibility. <b>2014</b> , 6, 4882-8	37
2071	Enhancing electrocatalytic performance of Sb-doped SnO <sub>2</sub> electrode by compositing nitrogen-doped graphene nanosheets. <b>2014</b> , 280, 304-14	55
2070	Covalently coupled hybrid of graphitic carbon nitride with reduced graphene oxide as a superior performance lithium-ion battery anode. <b>2014</b> , 6, 12555-64	163
2069	Pyrolysis of cellulose under ammonia leads to nitrogen-doped nanoporous carbon generated through methane formation. <b>2014</b> , 14, 2225-9	240
2068	Strain-Controllable Magnetism in Co Decorated Pyridinic N-Doped Graphene. <b>2014</b> , 50, 1-4	3
2067	Fe-N-C Electrocatalysts for Oxygen Reduction Reaction Synthesized by Using Aniline Salt and Fe <sup>3+</sup> /H <sub>2</sub> O <sub>2</sub> Catalytic System. <b>2014</b> , 146, 809-818	24
2066	N-doped porous graphene for carbon dioxide separation: a molecular dynamics study. <b>2014</b> , 59, 3919-3925	7
2065	Enhanced amperometric sensing for direct detection of nitenpyram via synergistic effect of copper nanoparticles and nitrogen-doped graphene. <b>2014</b> , 734, 25-30	16
2064	Interplay between Oxidized Monovacancy and Nitrogen Doping in Graphene. <b>2014</b> , 118, 19795-19805	9
2063	TiO <sub>2</sub> / N-graphene nanocomposite via a facile in-situ hydrothermal sol-gel strategy for visible light photodegradation of eosin Y. <b>2014</b> , 60, 188-194	20
2062	A cobalt-nitrogen complex on N-doped three-dimensional graphene framework as a highly efficient electrocatalyst for oxygen reduction reaction. <b>2014</b> , 6, 15066-72	110
2061	Nitrogen-Doped Hollow Carbon Spheres as a Support for Platinum-Based Electrocatalysts. <i>ACS Catalysis</i> , <b>2014</b> , 4, 3856-3868	13.1 93
2060	Mussel-inspired, ultralight, multifunctional 3D nitrogen-doped graphene aerogel. <b>2014</b> , 80, 174-182	128
2059	High sulfur loading composite wrapped by 3D nitrogen-doped graphene as a cathode material for lithium-sulfur batteries. <b>2014</b> , 2, 5018-5023	231
2058	Hydrothermal transformation of dried grass into graphitic carbon-based high performance electrocatalyst for oxygen reduction reaction. <b>2014</b> , 10, 3371-8	122

2057	Nitrogen-doped reduced graphene oxide-Ni(OH) <sub>2</sub> -built 3D flower composite with easy hydrothermal process and excellent electrochemical performance. <b>2014</b> , 138, 69-78	39
2056	Fabrication of functionalized nitrogen-doped graphene for supercapacitor electrodes. <b>2014</b> , 20, 1489-1494	22
2055	Toward new fuel cell support materials: a theoretical and experimental study of nitrogen-doped graphene. <b>2014</b> , 7, 2609-20	40
2054	Oxidation of Ethylbenzene to Acetophenone with N-Doped Graphene: Insight from Theory. <b>2014</b> , 118, 12275-12284	31
2053	Strongly Veined Carbon Nanoleaves as a Highly Efficient Metal-Free Electrocatalyst. <b>2014</b> , 126, 7025-7029	43
2052	The chemistry of imperfections in N-graphene. <b>2014</b> , 14, 4982-8	64
2051	Metal-free doped carbon materials as electrocatalysts for the oxygen reduction reaction. <b>2014</b> , 2, 4085-4110	608
2050	Oxygen Reduction on Graphene/Carbon Nanotube Composites Doped Sequentially with Nitrogen and Sulfur. <i>ACS Catalysis</i> , <b>2014</b> , 4, 2734-2740	13.1 145
2049	Low energy synthesis of nitrogen functionalized graphene/nanoclay hybrid via submerged liquid plasma approach. <b>2014</b> , 78, 446-454	24
2048	A novel electrochemiluminescence sensor based on nitrogen-doped graphene/CdTe quantum dots composite. <b>2014</b> , 315, 22-27	13
2047	Synthesis of dual-doped non-precious metal electrocatalysts and their electrocatalytic activity for oxygen reduction reaction. <b>2014</b> , 23, 498-506	6
2046	Pig Bone Derived Hierarchical Porous Carbon-Supported Platinum Nanoparticles with Superior Electrocatalytic Activity Towards Oxygen Reduction Reaction. <b>2014</b> , 26, 1831-1839	23
2045	Nitrogen-doped graphdiyne as a metal-free catalyst for high-performance oxygen reduction reactions. <b>2014</b> , 6, 11336-43	188
2044	Ag nanoparticles supported on N-doped graphene hybrids for catalytic reduction of 4-nitrophenol. <b>2014</b> , 4, 43204-43211	47
2043	Small-sized and high-dispersed WN from [SiO <sub>4</sub> (W <sub>3</sub> O <sub>9</sub> ) <sub>4</sub> ] <sub>4</sub> clusters loading on GO-derived graphene as promising carriers for methanol electro-oxidation. <b>2014</b> , 7, 1939-1949	111
2042	Recent advances of doped carbon as non-precious catalysts for oxygen reduction reaction. <b>2014</b> , 2, 15704-15716	16
2041	Heteroatom-doped graphene materials: syntheses, properties and applications. <b>2014</b> , 43, 7067-98	1258
2040	Chemical control of graphene architecture: tailoring shape and properties. <b>2014</b> , 8, 9733-54	89

2039	Palladium nanoparticle decorated high nitrogen-doped graphene with high catalytic activity for SuzukiMiyaura and Ullmann-type coupling reactions in aqueous media. <b>2014</b> , 488, 265-274	66
2038	Green synthesis of silver nanoparticles on nitrogen-doped graphene for hydrogen peroxide detection. <b>2014</b> , 146, 646-653	93
2037	Nitrogen segregation in nanocarbons. <b>2014</b> , 173, 215-32	10
2036	Nitrogen-enriched, double-shelled carbon/layered double hydroxide hollow microspheres for excellent electrochemical performance. <b>2014</b> , 6, 10887-95	65
2035	Laser-induced solid-phase doped graphene. <b>2014</b> , 8, 7671-7	41
2034	Pt-decorated 3D architectures built from graphene and graphitic carbon nitride nanosheets as efficient methanol oxidation catalysts. <b>2014</b> , 26, 5160-5	304
2033	Nitrogen-doped mesoporous reduced graphene oxide for high-performance supercapacitors. <b>2014</b> , 4, 22455	19
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2031	Amino acid mediated functionalization and reduction of graphene oxide synthesis and the formation mechanism of nitrogen-doped graphene. <b>2014</b> , 38, 3457-3467	48
2030	Mechanism of Enhanced Carbon Cathode Performance by Nitrogen Doping in LithiumSulfur Battery: An X-ray Absorption Spectroscopic Study. <b>2014</b> , 118, 7765-7771	93
2029	Van der Waals Epitaxial Growth of Transition Metal Dichalcogenides on Pristine and N-Doped Graphene. <b>2014</b> , 14, 4920-4928	15
2028	A non-enzymatic hydrogen peroxide sensor based on a glassy carbon electrode modified with cuprous oxide and nitrogen-doped graphene in a nafion matrix. <b>2014</b> , 181, 1463-1470	49
2027	Mechanical exfoliation of graphite in 1-butyl-3-methylimidazolium hexafluorophosphate (BMIM-PF6) providing graphene nanoplatelets that exhibit enhanced electrocatalysis. <b>2014</b> , 271, 312-325	7
2026	Progress on the Theoretical Study of Two-Dimensional MoS2 Monolayer and Nanoribbon. <b>2014</b> , 1-35	2
2025	Oxygen reduction reaction by electrochemically reduced graphene oxide. <b>2014</b> , 173, 415-28	65
2024	Effect of nitrogen doping of graphene oxide on hydrogen and hydroxyl adsorption. <b>2014</b> , 64, 1303-1307	2
2023	Strategies on the Design of Nitrogen-Doped Graphene. <b>2014</b> , 5, 119-25	73
2022	Recent progress on nitrogen/carbon structures designed for use in energy and sustainability applications. <b>2014</b> , 7, 1212-1249	487

2021	Synthesis of nitrogen doped graphite oxide and its electrochemical properties. <b>2014</b> , 14, 82-86	25
2020	Flexible nitrogen-doped graphene/carbon nanotube/Co <sub>3</sub> O <sub>4</sub> paper and its oxygen reduction activity. <b>2014</b> , 6, 7534-41	72
2019	Modified Carbon Materials for O <sub>2</sub> Reduction Reaction Electrocatalysts in Acid PEM Fuel Cells. <b>2014</b> , 119-156	3
2018	Facile hydrothermal fabrication of nitrogen-doped graphene/Fe <sub>2</sub> O <sub>3</sub> composites as high performance electrode materials for supercapacitor. <b>2014</b> , 604, 87-93	94
2017	Rapid room-temperature synthesis of Pd nanodendrites on reduced graphene oxide for catalytic oxidation of ethylene glycol and glycerol. <b>2014</b> , 39, 3730-3738	79
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2014	Observation of active sites for oxygen reduction reaction on nitrogen-doped multilayer graphene. <b>2014</b> , 8, 6856-62	445
2013	A novel activating strategy to achieve highly porous carbon monoliths for CO <sub>2</sub> capture. <b>2014</b> , 2, 4819-4826	101
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2010	Supercapacitors of nanocrystalline metal-organic frameworks. <b>2014</b> , 8, 7451-7	540
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2008	Recent progress on graphene-based hybrid electrocatalysts. <b>2014</b> , 1, 379-399	277
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2006	Heteroatom-doped graphene for electrochemical energy storage. <b>2014</b> , 59, 2102-2121	37
2005	Highly active nitrogen-doped few-layer graphene/carbon nanotube composite electrocatalyst for oxygen reduction reaction in alkaline media. <b>2014</b> , 73, 361-370	226
2004	Electroreduction of oxygen on palladium nanoparticles supported on nitrogen-doped graphene nanosheets. <b>2014</b> , 137, 206-212	56

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2002	Atomistic mechanisms of codoping-induced p- to n-type conversion in nitrogen-doped graphene. <b>2014</b> , 6, 14911-8	28
2001	Boron- and nitrogen-doped graphene quantum dots/graphene hybrid nanoplatelets as efficient electrocatalysts for oxygen reduction. <b>2014</b> , 8, 10837-43	346
2000	In situ formation of Ni(OH) <sub>2</sub> nanoparticle on nitrogen-doped reduced graphene oxide nanosheet for high-performance supercapacitor electrode material. <b>2014</b> , 317, 370-377	35
1999	Reduction in oxidative stress during cellular responses to chemically functionalised graphene. <b>2014</b> , 2, 5202-5208	3
1998	Thermal conductivity of graphene nanoribbons with defects and nitrogen doping. <b>2014</b> , 79, 29-35	21
1997	An electrochemical sensor based on the three-dimensional functionalized graphene for simultaneous determination of hydroquinone and catechol. <b>2014</b> , 722-723, 38-45	39
1996	Plasma-assisted nitrogen doping of graphene-encapsulated Pt nanocrystals as efficient fuel cell catalysts. <b>2014</b> , 2, 472-477	40
1995	Graphene-supported nanoelectrocatalysts for fuel cells: synthesis, properties, and applications. <b>2014</b> , 114, 5117-60	790
1994	Pyrolyzed Polyaniline/Graphene Nanosheets with Enhanced Lithium-Storage Properties: Preparation and Characterization. <b>2014</b> , 1, 951-956	8
1993	Direct Synthesis of Nitrogen-Doped Carbon Materials from Protic Ionic Liquids and Protic Salts: Structural and Physicochemical Correlations between Precursor and Carbon. <b>2014</b> , 26, 2915-2926	130
1992	Nitrogen doped carbon catalyzing acetylene conversion to vinyl chloride. <b>2014</b> , 23, 131-135	36
1991	Nitrogen implantation of suspended graphene flakes: Annealing effects and selectivity of sp <sup>2</sup> nitrogen species. <b>2014</b> , 73, 371-381	61
1990	Efficient oxygen reduction electrocatalyst based on edge-nitrogen-rich graphene nanoplatelets: toward a large-scale synthesis. <b>2014</b> , 6, 3930-6	43
1989	Nitrogen-containing carbon nanostructures: A promising carrier for catalysis of ammonia borane dehydrogenation. <b>2014</b> , 68, 462-472	24
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1987	Transparent N-doped graphene films on substrates fabricated by hydroxylamine diffusion induced assembly. <b>2014</b> , 116, 23-26	
1986	First principles study of oxygen reduction reaction mechanisms on N-doped graphene with a transition metal support. <b>2014</b> , 140, 225-231	45

1985	Nitrogen-doped nanodiamond rod array electrode with superior performance for electroreductive debromination of polybrominated diphenyl ethers. <b>2014</b> , 154-155, 206-212	27
1984	Synthesis of nitrogen-doped multilayer graphene from milk powder with melamine and their application to fuel cells. <b>2014</b> , 76, 1-9	51
1983	Luminescence properties of boron and nitrogen doped graphene quantum dots prepared from arc-discharge-generated doped graphene samples. <b>2014</b> , 595-596, 203-208	142
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1422	Synthesis of Pyrene-Fused Pyrazaacenes on Metal Surfaces: Toward One-Dimensional Conjugated Nanostructures. <b>2016</b> , 10, 1033-41	46
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1420	Moving beyond flexible to stretchable conductive electrodes using metal nanowires and graphenes. <b>2016</b> , 8, 1789-822	59
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1320	Si-, Ge-, Sn-Based Anode Materials for Lithium-Ion Batteries: From Structure Design to Electrochemical Performance. <b>2017</b> , 1, 1600037	174

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