Hyun-Jung Choi

List of Publications by Year
in descending order

42 papers	9,007 citations	159358 30 h-index	276539 41 g-index
42 all docs	42 docs citations	42 times ranked	12916 citing authors

#	Article	IF	Citations
1	Boron-nitrogen-phosphorous doped graphene nanoplatelets for enhanced electrocatalytic activity. European Polymer Journal, 2018, 99, 511-517.	2.6	17
2	Fe@C2N: A highly-efficient indirect-contact oxygen reduction catalyst. Nano Energy, 2018, 44, 304-310.	8.2	118
3	Controlled Fabrication of Hierarchically Structured Nitrogenâ€Doped Carbon Nanotubes as a Highly Active Bifunctional Oxygen Electrocatalyst. Advanced Functional Materials, 2017, 27, 1605717.	7.8	80
4	Electrocatalyts: Controlled Fabrication of Hierarchically Structured Nitrogenâ€Doped Carbon Nanotubes as a Highly Active Bifunctional Oxygen Electrocatalyst (Adv. Funct. Mater. 9/2017). Advanced Functional Materials, 2017, 27, .	7.8	1
5	Heavily aluminated graphene nanoplatelets as an efficient flame-retardant. Carbon, 2017, 116, 77-83.	5.4	43
6	Oneâ€Pot Purification and Iodination of Waste Kish Graphite into Highâ€Quality Electrocatalyst. Particle and Particle Systems Characterization, 2017, 34, 1600426.	1.2	8
7	A facile approach to tailoring electrocatalytic activities of imine-rich nitrogen-doped graphene for oxygen reduction reaction. Carbon, 2017, 122, 515-523.	5.4	25
8	Simple solution-based synthesis of pyridinic-rich nitrogen-doped graphene nanoplatelets for supercapacitors. Applied Energy, 2017, 195, 1071-1078.	5.1	60
9	Metalated graphene nanoplatelets and their uses as anode materials for lithium-ion batteries. 2D Materials, 2017, 4, 014002.	2.0	15
10	Two-dimensional polyaniline (C ₃ N) from carbonized organic single crystals in solid state. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 7414-7419.	3.3	380
11	Antimony-doped graphene nanoplatelets. Nature Communications, 2015, 6, 7123.	5.8	77
12	Fluorine: Edge-Fluorinated Graphene Nanoplatelets as High Performance Electrodes for Dye-Sensitized Solar Cells and Lithium Ion Batteries (Adv. Funct. Mater. 8/2015). Advanced Functional Materials, 2015, 25, 1328-1328.	7.8	6
13	Edgeâ€Fluorinated Graphene Nanoplatelets as High Performance Electrodes for Dyeâ€Sensitized Solar Cells and Lithium Ion Batteries. Advanced Functional Materials, 2015, 25, 1170-1179.	7.8	174
14	Graphene supported non-precious metal-macrocycle catalysts for oxygen reduction reaction in fuel cells. Nanoscale, 2015, 7, 6991-6998.	2.8	58
15	Nitrogenated holey two-dimensional structures. Nature Communications, 2015, 6, 6486.	5.8	923
16	High-performance dye-sensitized solar cells using edge-halogenated graphene nanoplatelets as counter electrodes. Nano Energy, 2015, 13, 336-345.	8.2	85
17	Metal-Free Catalysts for Oxygen Reduction Reaction. Chemical Reviews, 2015, 115, 4823-4892.	23.0	2,083
18	Wet-chemical nitrogen-doping of graphene nanoplatelets as electrocatalysts for the oxygen reduction reaction. Journal of Materials Chemistry A, 2015, 3, 7659-7665.	5.2	40

#	Article	IF	Citations
19	Graphene Nanoplatelets Doped with N at its Edges as Metalâ€Free Cathodes for Organic Dyeâ€Sensitized Solar Cells. Advanced Materials, 2014, 26, 3055-3062.	11.1	140
20	Two and three dimensional network polymers for electrocatalysis. Physical Chemistry Chemical Physics, 2014, 16, 11150-11161.	1.3	11
21	Edge-carboxylated graphene nanoplatelets as oxygen-rich metal-free cathodes for organic dye-sensitized solar cells. Energy and Environmental Science, 2014, 7, 1044-1052.	15.6	82
22	Graphene in photovoltaic applications: organic photovoltaic cells (OPVs) and dye-sensitized solar cells (DSSCs). Journal of Materials Chemistry A, 2014, 2, 12136.	5.2	107
23	Solvent-free mechanochemical reduction of graphene oxide. Carbon, 2014, 77, 501-507.	5.4	43
24	Edgeâ€Selectively Sulfurized Graphene Nanoplatelets as Efficient Metalâ€Free Electrocatalysts for Oxygen Reduction Reaction: The Electron Spin Effect. Advanced Materials, 2013, 25, 6138-6145.	11.1	537
25	Nb-doped TiO2 nanoparticles for organic dye-sensitized solar cells. RSC Advances, 2013, 3, 16380.	1.7	75
26	Large-Scale Production of Edge-Selectively Functionalized Graphene Nanoplatelets via Ball Milling and Their Use as Metal-Free Electrocatalysts for Oxygen Reduction Reaction. Journal of the American Chemical Society, 2013, 135, 1386-1393.	6.6	578
27	Nitrogen-Doped Graphene Nanoplatelets from Simple Solution Edge-Functionalization for n-Type Field-Effect Transistors. Journal of the American Chemical Society, 2013, 135, 8981-8988.	6.6	113
28	Edgeâ€Selectively Functionalized Graphene Nanoplatelets. Chemical Record, 2013, 13, 224-238.	2.9	31
29	N-Doped Graphene Nanoplatelets as Superior Metal-Free Counter Electrodes for Organic Dye-Sensitized Solar Cells. ACS Nano, 2013, 7, 5243-5250.	7.3	238
30	Facile, scalable synthesis of edge-halogenated graphene nanoplatelets as efficient metal-free eletrocatalysts for oxygen reduction reaction. Scientific Reports, 2013, 3, 1810.	1.6	300
31	Direct nitrogen fixation at the edges of graphene nanoplatelets as efficient electrocatalysts for energy conversion. Scientific Reports, 2013, 3, 2260.	1.6	204
32	Graphene for energy conversion and storage in fuel cells and supercapacitors. Nano Energy, 2012, 1, 534-551.	8.2	628
33	Large clusters and hollow microfibers by multicomponent self-assembly of citrate stabilized gold nanoparticles with temperature-responsive amphiphilic dendrimers. Journal of Materials Chemistry, 2012, 22, 13365.	6.7	5
34	Edge-carboxylated graphene nanosheets via ball milling. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 5588-5593.	3.3	595
35	Polyaniline-Grafted Reduced Graphene Oxide for Efficient Electrochemical Supercapacitors. ACS Nano, 2012, 6, 1715-1723.	7.3	807
36	Water-Dispersible, Sulfonated Hyperbranched Poly(ether-ketone) Grafted Multiwalled Carbon Nanotubes as Oxygen Reduction Catalysts. ACS Nano, 2012, 6, 6345-6355.	7.3	57

#	Article	IF	Citations
37	Immobilization of platinum nanoparticles on 3,4-diaminobenzoyl-functionalized multi-walled carbon nanotube and its electrocatalytic activity. Journal of Nanoparticle Research, 2012, 14, 1.	0.8	6
38	Formation of Large-Area Nitrogen-Doped Graphene Film Prepared from Simple Solution Casting of Edge-Selectively Functionalized Graphite and Its Electrocatalytic Activity. Chemistry of Materials, 2011, 23, 3987-3992.	3.2	171
39	Wedging graphite into graphene and graphene-like platelets by dendritic macromolecules. Journal of Materials Chemistry, 2011, 21, 7820.	6.7	27
40	Electrochemical activity of a polyaniline/polyaniline-grafted multiwalled carbon nanotube mixture produced by a simple suspension polymerization. Electrochimica Acta, 2011, 56, 10023-10031.	2.6	22
41	Nanocomposite prepared from in situ grafting of polypyrrole to aminobenzoylâ€functionalized multiwalled carbon nanotube and its electrochemical properties. Journal of Polymer Science Part A, 2011, 49, 2529-2537.	2.5	35
42	Mild and Nondestructive Chemical Modification of Carbon Nanotubes (CNTs): Direct Friedel-Crafts Acylation Reaction. , 0, , .		2