

In-Yup Jeon

List of Publications by Year in descending order

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papers

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61857

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98
all docs

98
docs citations

98
times ranked

10733
citing authors

#	ARTICLE	IF	CITATIONS
1	Nitrogenated holey two-dimensional structures. <i>Nature Communications</i> , 2015, 6, 6486.	5.8	923
2	Edge-carboxylated graphene nanosheets via ball milling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 5588-5593.	3.3	595
3	Large-Scale Production of Edge-Selectively Functionalized Graphene Nanoplatelets via Ball Milling and Their Use as Metal-Free Electrocatalysts for Oxygen Reduction Reaction. <i>Journal of the American Chemical Society</i> , 2013, 135, 1386-1393.	6.6	578
4	Edge-Selectively Sulfurized Graphene Nanoplatelets as Efficient Metal-Free Electrocatalysts for Oxygen Reduction Reaction: The Electron Spin Effect. <i>Advanced Materials</i> , 2013, 25, 6138-6145.	11.1	537
5	Facile, scalable synthesis of edge-halogenated graphene nanoplatelets as efficient metal-free electrocatalysts for oxygen reduction reaction. <i>Scientific Reports</i> , 2013, 3, 1810.	1.6	300
6	N-Doped Graphene Nanoplatelets as Superior Metal-Free Counter Electrodes for Organic Dye-Sensitized Solar Cells. <i>ACS Nano</i> , 2013, 7, 5243-5250.	7.3	238
7	Recent advances in ruthenium-based electrocatalysts for the hydrogen evolution reaction. <i>Nanoscale Horizons</i> , 2020, 5, 43-56.	4.1	223
8	Sulfur-Graphene Nanostructured Cathodes via Ball-Milling for High-Performance Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2014, 8, 10920-10930.	7.3	213
9	Direct nitrogen fixation at the edges of graphene nanoplatelets as efficient electrocatalysts for energy conversion. <i>Scientific Reports</i> , 2013, 3, 2260.	1.6	204
10	Direct Synthesis of a Covalent Triazine-Based Framework from Aromatic Amides. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8438-8442.	7.2	196
11	Edge-Fluorinated Graphene Nanoplatelets as High Performance Electrodes for Dye-Sensitized Solar Cells and Lithium Ion Batteries. <i>Advanced Functional Materials</i> , 2015, 25, 1170-1179.	7.8	174
12	Mechanochemically Assisted Synthesis of a Ru Catalyst for Hydrogen Evolution with Performance Superior to Pt in Both Acidic and Alkaline Media. <i>Advanced Materials</i> , 2018, 30, e1803676.	11.1	173
13	Formation of Large-Area Nitrogen-Doped Graphene Film Prepared from Simple Solution Casting of Edge-Selectively Functionalized Graphite and Its Electrocatalytic Activity. <i>Chemistry of Materials</i> , 2011, 23, 3987-3992.	3.2	171
14	Graphene Phosphonic Acid as an Efficient Flame Retardant. <i>ACS Nano</i> , 2014, 8, 2820-2825.	7.3	169
15	Edge-Selectively Halogenated Graphene Nanoplatelets (XGnPs, X = Cl, Br, or I) Prepared by Ball-Milling and Used as Anode Materials for Lithium-Ion Batteries. <i>Advanced Materials</i> , 2014, 26, 7317-7323.	11.1	160
16	Graphene Nanoplatelets Doped with N at its Edges as Metal-Free Cathodes for Organic Dye-Sensitized Solar Cells. <i>Advanced Materials</i> , 2014, 26, 3055-3062.	11.1	140
17	Scalable Production of Edge-Functionalized Graphene Nanoplatelets via Mechanochemical Ball-Milling. <i>Advanced Functional Materials</i> , 2015, 25, 6961-6975.	7.8	135
18	Nitrogen-Doped Graphene Nanoplatelets from Simple Solution Edge-Functionalization for n-Type Field-Effect Transistors. <i>Journal of the American Chemical Society</i> , 2013, 135, 8981-8988.	6.6	113

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19	High-yield exfoliation of three-dimensional graphite into two-dimensional graphene-like sheets. <i>Chemical Communications</i> , 2010, 46, 6320.	2.2	109
20	Exploration of the Effective Location of Surface Oxygen Defects in Graphene-Based Electrocatalysts for All-vanadium Redox Flow Batteries. <i>Advanced Energy Materials</i> , 2015, 5, 1401550.	10.2	107
21	Fluorine Functionalized Graphene Nano Platelets for Highly Stable Inverted Perovskite Solar Cells. <i>Nano Letters</i> , 2017, 17, 6385-6390.	4.5	106
22	Edge-halogenated graphene nanoplatelets with F, Cl, or Br as electrocatalysts for all-vanadium redox flow batteries. <i>Nano Energy</i> , 2016, 26, 233-240.	8.2	105
23	Nitrogen-Doped Carbon Nanomaterials: Synthesis, Characteristics and Applications. <i>Chemistry - an Asian Journal</i> , 2020, 15, 2282-2293.	1.7	100
24	Large-Area Graphene Films by Simple Solution Casting of Edge-Selectively Functionalized Graphite. <i>ACS Nano</i> , 2011, 5, 4974-4980.	7.3	98
25	Edge-selenated graphene nanoplatelets as durable metal-free catalysts for iodine reduction reaction in dye-sensitized solar cells. <i>Science Advances</i> , 2016, 2, e1501459.	4.7	88
26	High-performance dye-sensitized solar cells using edge-halogenated graphene nanoplatelets as counter electrodes. <i>Nano Energy</i> , 2015, 13, 336-345.	8.2	85
27	Edge-functionalized graphene-like platelets as a co-curing agent and a nanoscale additive to epoxy resin. <i>Journal of Materials Chemistry</i> , 2011, 21, 7337.	6.7	84
28	Edge-carboxylated graphene nanoplatelets as oxygen-rich metal-free cathodes for organic dye-sensitized solar cells. <i>Energy and Environmental Science</i> , 2014, 7, 1044-1052.	15.6	82
29	Controlled Fabrication of Hierarchically Structured Nitrogen-Doped Carbon Nanotubes as a Highly Active Bifunctional Oxygen Electrocatalyst. <i>Advanced Functional Materials</i> , 2017, 27, 1605717.	7.8	80
30	Antimony-doped graphene nanoplatelets. <i>Nature Communications</i> , 2015, 6, 7123.	5.8	77
31	Direct Solvothermal Synthesis of B/N-Doped Graphene. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 2398-2401.	7.2	61
32	Water-Dispersible, Sulfonated Hyperbranched Poly(ether-ketone) Grafted Multiwalled Carbon Nanotubes as Oxygen Reduction Catalysts. <i>ACS Nano</i> , 2012, 6, 6345-6355.	7.3	57
33	Semimetallic Transport in Nanocomposites Derived from Grafting of Linear and Hyperbranched Poly(phenylene sulfide)s onto the Surface of Functionalized Multi-Walled Carbon Nanotubes. <i>Macromolecules</i> , 2008, 41, 7423-7432.	2.2	56
34	Highly Conducting and Flexible Few-Walled Carbon Nanotube Thin Film. <i>ACS Nano</i> , 2011, 5, 2324-2331.	7.3	54
35	Cloud-like graphene nanoplatelets on $\text{Nd}_{0.5}\text{Sr}_{0.5}\text{CoO}_3$ nanorods as an efficient bifunctional electrocatalyst for hybrid Li-air batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 2122-2127.	5.2	54
36	Mechanochemically driven solid-state Diels-Alder reaction of graphite into graphene nanoplatelets. <i>Chemical Science</i> , 2013, 4, 4273.	3.7	49

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37	Metalloid tellurium-doped graphene nanoplatelets as ultimately stable electrocatalysts for cobalt reduction reaction in dye-sensitized solar cells. <i>Nano Energy</i> , 2016, 30, 867-876.	8.2	49
38	Edge-carboxylated graphene nanoplatelets as efficient electrode materials for electrochemical supercapacitors. <i>Carbon</i> , 2019, 142, 89-98.	5.4	49
39	Stability of multi-walled carbon nanotubes in commonly used acidic media. <i>Carbon</i> , 2012, 50, 1465-1476.	5.4	48
40	Fe@N-G Graphene Nanoplatelet-Embedded Carbon Nanofibers as Efficient Electrocatalysts for Oxygen Reduction Reaction. <i>Advanced Science</i> , 2016, 3, 1500205.	5.6	47
41	Molybdenum-Based Carbon Hybrid Materials to Enhance the Hydrogen Evolution Reaction. <i>Chemistry - A European Journal</i> , 2018, 24, 18158-18179.	1.7	46
42	Edge-iodine/sulfonic acid-functionalized graphene nanoplatelets as efficient electrocatalysts for oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2014, 2, 8690-8695.	5.2	45
43	Direct grafting of linear macromolecular wedges to the edge of pristine graphite to prepare edge-functionalized graphene-based polymer composites. <i>Journal of Materials Chemistry</i> , 2010, 20, 10936.	6.7	44
44	Edge-thionic acid-functionalized graphene nanoplatelets as anode materials for high-rate lithium ion batteries. <i>Nano Energy</i> , 2019, 62, 419-425.	8.2	44
45	Functionalization of Carbon Nanotubes. , 0, , .		43
46	Solvent-free mechanochemical reduction of graphene oxide. <i>Carbon</i> , 2014, 77, 501-507.	5.4	43
47	Understanding of the capacity contribution of carbon in phosphorus-carbon composites for high-performance anodes in lithium ion batteries. <i>Nano Research</i> , 2017, 10, 1268-1281.	5.8	43
48	Heavily aluminated graphene nanoplatelets as an efficient flame-retardant. <i>Carbon</i> , 2017, 116, 77-83.	5.4	43
49	Hyperbranched Macromolecules: From Synthesis to Applications. <i>Molecules</i> , 2018, 23, 657.	1.7	43
50	Nanocomposites derived from <i>in situ</i> grafting of linear and hyperbranched poly(ether ketone)s containing flexible oxyethylene spacers onto the surface of multiwalled carbon nanotubes. <i>Journal of Polymer Science Part A</i> , 2008, 46, 3471-3481.	2.5	41
51	Direct Synthesis of a Covalent Triazine-Based Framework from Aromatic Amides. <i>Angewandte Chemie</i> , 2018, 130, 8574-8578.	1.6	40
52	Grafting of polyaniline onto the surface of 4-aminobenzoyl-functionalized multiwalled carbon nanotube and its electrochemical properties. <i>Journal of Polymer Science Part A</i> , 2010, 48, 3103-3112.	2.5	37
53	Nanocomposite prepared from <i>in situ</i> grafting of polypyrrole to aminobenzoyl-functionalized multiwalled carbon nanotube and its electrochemical properties. <i>Journal of Polymer Science Part A</i> , 2011, 49, 2529-2537.	2.5	35
54	Comparative study of edge-functionalized graphene nanoplatelets as metal-free counter electrodes for highly efficient dye-sensitized solar cells. <i>Materials Today Energy</i> , 2018, 9, 67-73.	2.5	34

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55	Graphene Nanoplatelets with Selectively Functionalized Edges as Electrode Material for Electrochemical Energy Storage. <i>Langmuir</i> , 2015, 31, 5676-5683.	1.6	33
56	Edge-selectively antimony-doped graphene nanoplatelets as an outstanding counter electrode with an unusual electrochemical stability for dye-sensitized solar cells employing cobalt electrolytes. <i>Journal of Materials Chemistry A</i> , 2016, 4, 9029-9037.	5.2	33
57	Synthesis and electrical properties of polyaniline/polyaniline grafted multiwalled carbon nanotube mixture via <i>in situ</i> static interfacial polymerization. <i>Journal of Polymer Science Part A</i> , 2010, 48, 1962-1972.	2.5	32
58	Edge-Selectively Functionalized Graphene Nanoplatelets. <i>Chemical Record</i> , 2013, 13, 224-238.	2.9	31
59	Wedging graphite into graphene and graphene-like platelets by dendritic macromolecules. <i>Journal of Materials Chemistry</i> , 2011, 21, 7820.	6.7	27
60	Edge-Exfoliated Graphites for Facile Kinetics of Delithiation. <i>ACS Nano</i> , 2012, 6, 10770-10775.	7.3	27
61	Carbon-Heteroatom Bond Formation by an Ultrasonic Chemical Reaction for Energy Storage Systems. <i>Advanced Materials</i> , 2017, 29, 1702747.	11.1	27
62	Oxidative Dehydrogenation of Ethylbenzene into Styrene by Fe-Graphitic Catalysts. <i>ACS Nano</i> , 2019, 13, 5893-5899.	7.3	26
63	Scalable Synthesis of Pure and Stable Hexaaminobenzene Trihydrochloride. <i>Synlett</i> , 2013, 24, 246-248.	1.0	23
64	Electrochemical activity of a polyaniline/polyaniline-grafted multiwalled carbon nanotube mixture produced by a simple suspension polymerization. <i>Electrochimica Acta</i> , 2011, 56, 10023-10031.	2.6	22
65	Multifunctional poly(2,5-benzimidazole)/carbon nanotube composite films. <i>Journal of Polymer Science Part A</i> , 2010, 48, 1067-1078.	2.5	21
66	Hydrogen Evolution Reaction: Mechanochemically Assisted Synthesis of a Ru Catalyst for Hydrogen Evolution with Performance Superior to Pt in Both Acidic and Alkaline Media (<i>Adv. Mater.</i> 44/2018). <i>Advanced Materials</i> , 2018, 30, 1870330.	11.1	21
67	A New Strategy for Outstanding Performance and Durability in Acidic Fuel Cells: A Small Amount Pt Anchored on Fe, N Doped Graphene Nanoplatelets. <i>ChemElectroChem</i> , 2018, 5, 2857-2862.	1.7	18
68	Edge-Functionalization of Pyrene as a Miniature Graphene via Friedel-Crafts Acylation Reaction in Poly(Phosphoric Acid). <i>Nanoscale Research Letters</i> , 2010, 5, 1686-1691.	3.1	17
69	Boron-nitrogen-phosphorous doped graphene nanoplatelets for enhanced electrocatalytic activity. <i>European Polymer Journal</i> , 2018, 99, 511-517.	2.6	17
70	Metalated graphene nanoplatelets and their uses as anode materials for lithium-ion batteries. <i>2D Materials</i> , 2017, 4, 014002.	2.0	15
71	Reinforcement of polystyrene using edge-styrene graphitic nanoplatelets. <i>Journal of Materials Research and Technology</i> , 2021, 10, 662-670.	2.6	14
72	Tuning edge-oxygenated groups on graphitic carbon materials against corrosion. <i>Nano Energy</i> , 2019, 66, 104112.	8.2	13

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73	Mechanochemically driven iodination of activated charcoal for metal-free electrocatalyst for fuel cells and hybrid Li-air cells. <i>Carbon</i> , 2015, 93, 465-472.	5.4	12
74	Forming a three-dimensional porous organic network via solid-state explosion of organic single crystals. <i>Nature Communications</i> , 2017, 8, 1599.	5.8	12
75	Heptene-functionalized graphitic nanoplatelets for high-performance composites of linear low-density polyethylene. <i>Composites Science and Technology</i> , 2020, 199, 108380.	3.8	11
76	Direct preparation of edge-propylene graphitic nanoplatelets and its reinforcing effects in polypropylene. <i>Composites Communications</i> , 2021, 27, 100896.	3.3	11
77	Sponge Behaviors of Functionalized Few-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2010, 114, 14868-14875.	1.5	10
78	Enhanced electrocatalytic performance of Pt nanoparticles on triazine-functionalized graphene nanoplatelets for both oxygen and iodine reduction reactions. <i>Journal of Materials Chemistry A</i> , 2017, 5, 21936-21946.	5.2	10
79	Paramagnetic Carbon Nanosheets with Random Hole Defects and Oxygenated Functional Groups. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 11670-11675.	7.2	9
80	Synthesis of linear and hyperbranched poly(etherketone)s containing flexible oxyethylene spacers. <i>Journal of Polymer Science Part A</i> , 2007, 45, 5112-5122.	2.5	8
81	One-Pot Purification and Iodination of Waste Kish Graphite into High-Quality Electrocatalyst. <i>Particle and Particle Systems Characterization</i> , 2017, 34, 1600426.	1.2	8
82	Self-controlled synthesis of hyperbranched poly(etherketone)s from $A_{2} + B_{3}$ approach in poly(phosphoric acid). <i>Journal of Polymer Science Part A</i> , 2009, 47, 3326-3336.	2.5	6
83	Immobilization of platinum nanoparticles on 3,4-diaminobenzoyl-functionalized multi-walled carbon nanotube and its electrocatalytic activity. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	0.8	6
84	Fluorine: Edge-Fluorinated Graphene Nanoplatelets as High Performance Electrodes for Dye-Sensitized Solar Cells and Lithium Ion Batteries (<i>Adv. Funct. Mater.</i> 8/2015). <i>Advanced Functional Materials</i> , 2015, 25, 1328-1328.	7.8	6
85	Direct and efficient conversion from low-quality graphite to high-quality graphene nanoplatelets. <i>FlatChem</i> , 2018, 12, 10-16.	2.8	6
86	Edge- NF_{1-2} Protected Graphitic Nanoplatelets as a Stable Lithium Storage Material. <i>Batteries and Supercaps</i> , 2020, 3, 928-935.	2.4	6
87	Influence of the Hydrophilic Surface of Nanofiber Support on the Performance of Hybrid Supercapacitors. <i>Energies</i> , 2021, 14, 7621.	1.6	6
88	Strain-induced delamination of edge-grafted graphite. <i>Chemical Communications</i> , 2012, 48, 11109.	2.2	4
89	Ultrasonic Chemistry: Carbon-Heteroatom Bond Formation by an Ultrasonic Chemical Reaction for Energy Storage Systems (<i>Adv. Mater.</i> 47/2017). <i>Advanced Materials</i> , 2017, 29, 1770339.	11.1	4
90	Electrochemical Catalysts for Green Hydrogen Energy. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2100019.	2.8	4

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91	Direct conversion of aromatic amides into crystalline covalent triazine frameworks by a condensation mechanism. <i>Cell Reports Physical Science</i> , 2021, 2, 100653.	2.8	4
92	Neohexene graphitic nanoplatelets for reinforced low-density polyethylene. <i>Journal of Polymer Research</i> , 2022, 29, 1.	1.2	3
93	Mild and Nondestructive Chemical Modification of Carbon Nanotubes (CNTs): Direct Friedel-Crafts Acylation Reaction. , 0, , .		2
94	Improved performance of poly(styrene- <i>co</i> -butadiene) using butadiene graphitic nanoplatelets. <i>Journal of Applied Polymer Science</i> , 2022, 139, .	1.3	2
95	Electrocatalysts: Controlled Fabrication of Hierarchically Structured Nitrogen-Doped Carbon Nanotubes as a Highly Active Bifunctional Oxygen Electrocatalyst (<i>Adv. Funct. Mater.</i> 9/2017). <i>Advanced Functional Materials</i> , 2017, 27, .	7.8	1
96	Oxygen reduction reaction by metal-free catalysts. , 2022, , 241-275.		1
97	Energy Conversion: Fe@N-Graphene Nanoplatelet-Embedded Carbon Nanofibers as Efficient Electrocatalysts for Oxygen Reduction Reaction (<i>Adv. Sci.</i> 1/2016). <i>Advanced Science</i> , 2016, 3, .	5.6	0