

Jong-Beom Baek

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

279 papers	23,683 citations	67 h-index	150 g-index
291 ext. papers	26,541 ext. citations	10.8 avg, IF	7.38 L-index

#	Paper	IF	Citations
279	Abrading bulk metal into single atoms.. <i>Nature Nanotechnology</i> , 2022 ,	28.7	12
278	Unveiling the critical role of active site interaction in single atom catalyst towards hydrogen evolution catalysis. <i>Nano Energy</i> , 2022 , 93, 106819	17.1	3
277	Neohexene graphitic nanoplatelets for reinforced low-density polyethylene. <i>Journal of Polymer Research</i> , 2022 , 29, 1	2.7	1
276	Synthesis of all-biomass-derived carbon nanofibers for dual-functional filtration membranes and oxygen evolution reaction electrocatalysts. <i>Journal of Alloys and Compounds</i> , 2022 , 165600	5.7	
275	Direct conversion of aromatic amides into crystalline covalent triazine frameworks by a condensation mechanism. <i>Cell Reports Physical Science</i> , 2021 , 2, 100653	6.1	1
274	Fused aromatic networks as a new class of gas hydrate inhibitors. <i>Chemical Engineering Journal</i> , 2021 , 133691	14.7	2
273	3D Porous Fused Aromatic Networks for High Performance Gas and Iodine Uptakes (Adv. Mater. Interfaces 22/2021). <i>Advanced Materials Interfaces</i> , 2021 , 8, 2170128	4.6	
272	3D Porous Fused Aromatic Networks for High Performance Gas and Iodine Uptakes. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2101373	4.6	0
271	Fused Aromatic Network Structures: Fused Aromatic Network with Exceptionally High Carrier Mobility (Adv. Mater. 9/2021). <i>Advanced Materials</i> , 2021 , 33, 2170063	24	
270	Electrochemical Catalysts for Green Hydrogen Energy. <i>Advanced Energy and Sustainability Research</i> , 2021 , 2, 2100019	1.6	2
269	Catalyst- and Solvent-Free Synthesis of a Chemically Stable Aza-Bridged Bis(phenanthroline) Macrocyclic-Linked Covalent Organic Framework. <i>Angewandte Chemie</i> , 2021 , 133, 17328-17334	3.6	1
268	Catalyst- and Solvent-Free Synthesis of a Chemically Stable Aza-Bridged Bis(phenanthroline) Macrocyclic-Linked Covalent Organic Framework. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 17191-17197	16.4	5
267	Surface Electronic Modulation with Hetero-Single Atoms to Enhance Oxygen Evolution Catalysis. <i>ACS Nano</i> , 2021 ,	16.7	10
266	Recent Progress in Porous Fused Aromatic Networks and Their Applications. <i>Small Science</i> , 2021 , 1, 2000007		6
265	Mechanochemistry for ammonia synthesis under mild conditions. <i>Nature Nanotechnology</i> , 2021 , 16, 325-330	38.9	51
264	Anomalous phonon softening of G-band in compressed graphitic carbon nitride due to strong electrostatic repulsion. <i>Applied Physics Letters</i> , 2021 , 118, 023103	3.4	0
263	An Overview of Cellulose-Based Nanogenerators. <i>Advanced Materials Technologies</i> , 2021 , 6, 2001164	6.8	11

262	Active Site Engineering in Transition Metal Based Electrocatalysts for Green Energy Applications. <i>Accounts of Materials Research</i> , 2021 , 2, 147-158	7.5	5
261	Cellulose-Based Nanogenerators: An Overview of Cellulose-Based Nanogenerators (Adv. Mater. Technol. 3/2021). <i>Advanced Materials Technologies</i> , 2021 , 6, 2170018	6.8	0
260	Fused aromatic networks with the different spatial arrangement of structural units. <i>Cell Reports Physical Science</i> , 2021 , 100502	6.1	0
259	The promise of hydrogen production from alkaline anion exchange membrane electrolyzers. <i>Nano Energy</i> , 2021 , 87, 106162	17.1	34
258	Synthesis of Saddle-Shape Octaaminotetraphenylene Octahydrochloride. <i>Journal of Organic Chemistry</i> , 2021 , 86, 14398-14403	4.2	1
257	Carbon-Based Electrocatalysts for Efficient Hydrogen Peroxide Production. <i>Advanced Materials</i> , 2021 , e2103266	24	18
256	Direct preparation of edge-propylene graphitic nanoplatelets and its reinforcing effects in polypropylene. <i>Composites Communications</i> , 2021 , 27, 100896	6.7	3
255	Effect of the carboxyl functional group at the edges of graphene on the signal sensitivity of dopamine detection. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 898, 115628	4.1	6
254	Reinforcement of polystyrene using edge-styrene graphitic nanoplatelets. <i>Journal of Materials Research and Technology</i> , 2021 , 10, 662-670	5.5	6
253	Fused Aromatic Network with Exceptionally High Carrier Mobility. <i>Advanced Materials</i> , 2021 , 33, e2004707	17.4	6
252	Carbon-Based Electrocatalysts for Efficient Hydrogen Peroxide Production (Adv. Mater. 49/2021). <i>Advanced Materials</i> , 2021 , 33, 2170389	24	1
251	Nanocatalytic Materials for Energy-Related Small-Molecules Conversions: Active Site Design, Identification and Structure-Performance Relationship Discovery.. <i>Accounts of Chemical Research</i> , 2021 ,	24.3	2
250	Building and identifying highly active oxygenated groups in carbon materials for oxygen reduction to HO. <i>Nature Communications</i> , 2020 , 11, 2209	17.4	107
249	Edge-NFx (x=1 or 2) Protected Graphitic Nanoplatelets as a Stable Lithium Storage Material. <i>Batteries and Supercaps</i> , 2020 , 3, 928-935	5.6	1
248	Identifying the electrocatalytic active sites of a Ru-based catalyst with high Faraday efficiency in CO ₂ -saturated media for an aqueous Zn/O ₂ system. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 14927-14934	13.4	10
247	Forming indium-carbon (In-C) bonds at the edges of graphitic nanoplatelets. <i>Materials Today Advances</i> , 2020 , 6, 100030	7.4	4
246	Ruthenium anchored on carbon nanotube electrocatalyst for hydrogen production with enhanced Faradaic efficiency. <i>Nature Communications</i> , 2020 , 11, 1278	17.4	156
245	Two-dimensional amine and hydroxy functionalized fused aromatic covalent organic framework. <i>Communications Chemistry</i> , 2020 , 3,	6.3	10

244	Graphene and molybdenum disulphide hybrids for energy applications: an update. <i>Materials Today Advances</i> , 2020 , 6, 100053	7.4	18
243	Vertical two-dimensional layered fused aromatic ladder structure. <i>Nature Communications</i> , 2020 , 11, 2021	17.4	14
242	Edge-selective decoration with ruthenium at graphitic nanoplatelets for efficient hydrogen production at universal pH. <i>Nano Energy</i> , 2020 , 76, 105114	17.1	11
241	Nitrogen-Doped Carbon Nanomaterials: Synthesis, Characteristics and Applications. <i>Chemistry - an Asian Journal</i> , 2020 , 15, 2282-2293	4.5	38
240	Recent advances in ruthenium-based electrocatalysts for the hydrogen evolution reaction. <i>Nanoscale Horizons</i> , 2020 , 5, 43-56	10.8	101
239	Recent Advances in Noble Metal (Pt, Ru, and Ir)-Based Electrocatalysts for Efficient Hydrogen Evolution Reaction. <i>ACS Omega</i> , 2020 , 5, 31-40	3.9	149
238	Iron encased organic networks with enhanced lithium storage properties. <i>Energy Storage</i> , 2020 , 2, e114	2.8	2
237	Heptene-functionalized graphitic nanoplatelets for high-performance composites of linear low-density polyethylene. <i>Composites Science and Technology</i> , 2020 , 199, 108380	8.6	8
236	Enhancing the Photocatalytic Activity of TiO ₂ Catalysts. <i>Advanced Sustainable Systems</i> , 2020 , 4, 2000197	5.9	22
235	Revealing Isolated M-N C Active Sites for Efficient Collaborative Oxygen Reduction Catalysis. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 23678-23683	16.4	30
234	Revealing Isolated M-N C Active Sites for Efficient Collaborative Oxygen Reduction Catalysis. <i>Angewandte Chemie</i> , 2020 , 132, 23886-23891	3.6	8
233	Balancing hydrogen adsorption/desorption by orbital modulation for efficient hydrogen evolution catalysis. <i>Nature Communications</i> , 2019 , 10, 4060	17.4	70
232	Tuning edge-oxygenated groups on graphitic carbon materials against corrosion. <i>Nano Energy</i> , 2019 , 66, 104112	17.1	7
231	Paramagnetic Carbon Nanosheets with Random Hole Defects and Oxygenated Functional Groups. <i>Angewandte Chemie</i> , 2019 , 131, 11796-11801	3.6	1
230	Identifying the structure of Zn-N active sites and structural activation. <i>Nature Communications</i> , 2019 , 10, 2623	17.4	50
229	Paramagnetic Carbon Nanosheets with Random Hole Defects and Oxygenated Functional Groups. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 11670-11675	16.4	4
228	Room-Temperature Organic Ferromagnetism. <i>Chem</i> , 2019 , 5, 1012-1014	16.2	4
227	Edge-thionic acid-functionalized graphene nanoplatelets as anode materials for high-rate lithium ion batteries. <i>Nano Energy</i> , 2019 , 62, 419-425	17.1	16

226	Oxidative Dehydrogenation of Ethylbenzene into Styrene by Fe-Graphitic Catalysts. <i>ACS Nano</i> , 2019 , 13, 5893-5899	16.7	12
225	Synergistic Coupling Derived Cobalt Oxide with Nitrogenated Holey Two-Dimensional Matrix as an Efficient Bifunctional Catalyst for Metal-Air Batteries. <i>ACS Nano</i> , 2019 , 13, 5502-5512	16.7	62
224	Graphene Nanoplatelets: Edge-Functionalized Graphene Nanoplatelets as Metal-Free Electrocatalysts for Dye-Sensitized Solar Cells (Adv. Mater. 13/2019). <i>Advanced Materials</i> , 2019 , 31, 1970091	24	1
223	Innentitelbild: Paramagnetic Carbon Nanosheets with Random Hole Defects and Oxygenated Functional Groups (Angew. Chem. 34/2019). <i>Angewandte Chemie</i> , 2019 , 131, 11668-11668	3.6	
222	Converting Unstable Imine-Linked Network into Stable Aromatic Benzoxazole-Linked One via Post-oxidative Cyclization. <i>Journal of the American Chemical Society</i> , 2019 , 141, 11786-11790	16.4	50
221	Forming layered conjugated porous BBL structures. <i>Polymer Chemistry</i> , 2019 , 10, 4185-4193	4.9	6
220	Metal (M = Ru, Pd and Co) embedded in C ₂ N with enhanced lithium storage properties. <i>Materials Today Energy</i> , 2019 , 14, 100359	7	9
219	Dissociating stable nitrogen molecules under mild conditions by cyclic strain engineering. <i>Science Advances</i> , 2019 , 5, eaax8275	14.3	8
218	Low-Temperature Conversion of Alcohols into Bulky Nanoporous Graphene and Pure Hydrogen with Robust Selectivity on CaO. <i>Advanced Materials</i> , 2019 , 31, e1807267	24	16
217	Edge-Functionalized Graphene Nanoplatelets as Metal-Free Electrocatalysts for Dye-Sensitized Solar Cells. <i>Advanced Materials</i> , 2019 , 31, e1804440	24	29
216	Fused Aromatic Network Structures as a Platform for Efficient Electrocatalysis. <i>Advanced Materials</i> , 2019 , 31, e1805062	24	22
215	Scalable Synthesis of Tetrapodal Octaamine. <i>European Journal of Organic Chemistry</i> , 2019 , 2019, 2335-2338	3.8	4
214	Robust fused aromatic pyrazine-based two-dimensional network for stably cocooning iron nanoparticles as an oxygen reduction electrocatalyst. <i>Nano Energy</i> , 2019 , 56, 581-587	17.1	24
213	Edge-carboxylated graphene nanoplatelets as efficient electrode materials for electrochemical supercapacitors. <i>Carbon</i> , 2019 , 142, 89-98	10.4	39
212	Direct Synthesis of a Covalent Triazine-Based Framework from Aromatic Amides. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 8438-8442	16.4	129
211	Direct Synthesis of a Covalent Triazine-Based Framework from Aromatic Amides. <i>Angewandte Chemie</i> , 2018 , 130, 8574-8578	3.6	29
210	A Robust 3D Cage-like Ultramicroporous Network Structure with High Gas-Uptake Capacity. <i>Angewandte Chemie</i> , 2018 , 130, 3473-3478	3.6	4
209	A Robust 3D Cage-like Ultramicroporous Network Structure with High Gas-Uptake Capacity. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 3415-3420	16.4	34

208	Boron-nitrogen-phosphorous doped graphene nanoplatelets for enhanced electrocatalytic activity. <i>European Polymer Journal</i> , 2018 , 99, 511-517	5.2	14
207	Defect-Free Encapsulation of Fe in 2D Fused Organic Networks as a Durable Oxygen Reduction Electrocatalyst. <i>Journal of the American Chemical Society</i> , 2018 , 140, 1737-1742	16.4	103
206	3D Macroporous MoxC@N-C with Incorporated Mo Vacancies as Anodes for High-Performance Lithium-Ion Batteries. <i>Small Methods</i> , 2018 , 2, 1800040	12.8	26
205	Organic Ferromagnetism: Trapping Spins in the Glassy State of an Organic Network Structure. <i>Chem</i> , 2018 , 4, 2357-2369	16.2	29
204	Hyperbranched Macromolecules: From Synthesis to Applications. <i>Molecules</i> , 2018 , 23,	4.8	31
203	A New Strategy for Outstanding Performance and Durability in Acidic Fuel Cells: A Small Amount Pt Anchored on Fe, N co-Doped Graphene Nanoplatelets. <i>ChemElectroChem</i> , 2018 , 5, 2857-2862	4.3	13
202	Boosting oxygen reduction catalysis with abundant copper single atom active sites. <i>Energy and Environmental Science</i> , 2018 , 11, 2263-2269	35.4	301
201	Fe@C2N: A highly-efficient indirect-contact oxygen reduction catalyst. <i>Nano Energy</i> , 2018 , 44, 304-310	17.1	85
200	Direct and efficient conversion from low-quality graphite to high-quality graphene nanoplatelets. <i>FlatChem</i> , 2018 , 12, 10-16	5.1	5
199	Hydrogen Evolution Reaction: Encapsulating Iridium Nanoparticles Inside a 3D Cage-Like Organic Network as an Efficient and Durable Catalyst for the Hydrogen Evolution Reaction (Adv. Mater. 52/2018). <i>Advanced Materials</i> , 2018 , 30, 1870401	24	2
198	Encapsulating Iridium Nanoparticles Inside a 3D Cage-Like Organic Network as an Efficient and Durable Catalyst for the Hydrogen Evolution Reaction. <i>Advanced Materials</i> , 2018 , 30, e1805606	24	69
197	Molybdenum-Based Carbon Hybrid Materials to Enhance the Hydrogen Evolution Reaction. <i>Chemistry - A European Journal</i> , 2018 , 24, 18158-18179	4.8	33
196	Hydrogen Evolution Reaction: Mechanochemically Assisted Synthesis of a Ru Catalyst for Hydrogen Evolution with Performance Superior to Pt in Both Acidic and Alkaline Media (Adv. Mater. 44/2018). <i>Advanced Materials</i> , 2018 , 30, 1870330	24	13
195	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	24	125
194	Functionalized Graphene-Based, Metal-Free Electrocatalysts for Oxygen Reduction Reaction in Fuel Cells 2018 , 529-554		1
193	Construction of Porous Mo3P/Mo Nanobelts as Catalysts for Efficient Water Splitting. <i>Angewandte Chemie</i> , 2018 , 130, 14335-14339	3.6	6
192	Construction of Porous Mo P/Mo Nanobelts as Catalysts for Efficient Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 14139-14143	16.4	53
191	Controlled Fabrication of Hierarchically Structured Nitrogen-Doped Carbon Nanotubes as a Highly Active Bifunctional Oxygen Electrocatalyst. <i>Advanced Functional Materials</i> , 2017 , 27, 1605717	15.6	62

190	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	10	36
189	Defect/Edge-Selective Functionalization of Carbon Materials by "Direct" Friedel-Crafts Acylation Reaction. <i>Advanced Materials</i> , 2017 , 29, 1606317	24	18
188	Electrocatalysts: Controlled Fabrication of Hierarchically Structured Nitrogen-Doped Carbon Nanotubes as a Highly Active Bifunctional Oxygen Electrocatalyst (Adv. Funct. Mater. 9/2017). <i>Advanced Functional Materials</i> , 2017 , 27,	15.6	1
187	Heavily aluminated graphene nanoplatelets as an efficient flame-retardant. <i>Carbon</i> , 2017 , 116, 77-83	10.4	32
186	An efficient and pH-universal ruthenium-based catalyst for the hydrogen evolution reaction. <i>Nature Nanotechnology</i> , 2017 , 12, 441-446	28.7	857
185	Reinforcement efficiency of carbon nanotubes and their effect on crystal-crystal slip in poly(ether ketone)/carbon nanotube composite fibers. <i>Composites Science and Technology</i> , 2017 , 147, 116-125	8.6	11
184	Two-Dimensional Covalent Organic Frameworks for Optoelectronics and Energy Storage. <i>ChemNanoMat</i> , 2017 , 3, 373-391	3.5	82
183	One-Pot Purification and Iodination of Waste Kish Graphite into High-Quality Electrocatalyst. <i>Particle and Particle Systems Characterization</i> , 2017 , 34, 1600426	3.1	4
182	Nitrogen-rich two-dimensional porous polybenzimidazole network as a durable metal-free electrocatalyst for a cobalt reduction reaction in organic dye-sensitized solar cells. <i>Nano Energy</i> , 2017 , 34, 533-540	17.1	11
181	Electrocatalysis: Porous Cobalt Phosphide Polyhedrons with Iron Doping as an Efficient Bifunctional Electrocatalyst (Small 40/2017). <i>Small</i> , 2017 , 13,	11	1
180	Fluorine Functionalized Graphene Nano Platelets for Highly Stable Inverted Perovskite Solar Cells. <i>Nano Letters</i> , 2017 , 17, 6385-6390	11.5	84
179	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	13	9
178	2D Frameworks of C N and C N as New Anode Materials for Lithium-Ion Batteries. <i>Advanced Materials</i> , 2017 , 29, 1702007	24	196
177	Porous Cobalt Phosphide Polyhedrons with Iron Doping as an Efficient Bifunctional Electrocatalyst. <i>Small</i> , 2017 , 13, 1701167	11	59
176	Ultrasonic Chemistry: Carbon-Heteroatom Bond Formation by an Ultrasonic Chemical Reaction for Energy Storage Systems (Adv. Mater. 47/2017). <i>Advanced Materials</i> , 2017 , 29, 1770339	24	4
175	Charge transport in graphene oxide. <i>Nano Today</i> , 2017 , 17, 38-53	17.9	20
174	Forming a three-dimensional porous organic network via solid-state explosion of organic single crystals. <i>Nature Communications</i> , 2017 , 8, 1599	17.4	9
173	Carbon-Heteroatom Bond Formation by an Ultrasonic Chemical Reaction for Energy Storage Systems. <i>Advanced Materials</i> , 2017 , 29, 1702747	24	23

172	Macroporous Inverse Opal-like MoC with Incorporated Mo Vacancies for Significantly Enhanced Hydrogen Evolution. <i>ACS Nano</i> , 2017 , 11, 7527-7533	16.7	84
171	A facile approach to tailoring electrocatalytic activities of imine-rich nitrogen-doped graphene for oxygen reduction reaction. <i>Carbon</i> , 2017 , 122, 515-523	10.4	22
170	Simple solution-based synthesis of pyridinic-rich nitrogen-doped graphene nanoplatelets for supercapacitors. <i>Applied Energy</i> , 2017 , 195, 1071-1078	10.7	46
169	Metalated graphene nanoplatelets and their uses as anode materials for lithium-ion batteries. <i>2D Materials</i> , 2017 , 4, 014002	5.9	13
168	Eco-friendly synthesis of graphene nanoplatelets. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 15281-15293	13	18
167	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	14.3	76
166	Nanoporous Graphene Enriched with Fe/Co-N Active Sites as a Promising Oxygen Reduction Electrocatalyst for Anion Exchange Membrane Fuel Cells. <i>Advanced Functional Materials</i> , 2016 , 26, 2150-2162	15.6	245
165	Effects of process parameters and surface treatments of graphene nanoplatelets on the crystallinity and thermomechanical properties of polyamide 6 composite fibers. <i>Composites Part B: Engineering</i> , 2016 , 100, 220-227	10	35
164	Two-dimensional polyaniline (C3N) from carbonized organic single crystals in solid state. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 7414-9	11.5	278
163	Unusually Stable Triazine-based Organic Superstructures. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 7413-7	16.4	4
162	Cloud-like graphene nanoplatelets on Nd _{0.5} Sr _{0.5} CoO ₃ nanorods as an efficient bifunctional electrocatalyst for hybrid LiBr batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 2122-2127	13	46
161	Functionalized graphene nanoplatelets from ball milling for energy applications. <i>Current Opinion in Chemical Engineering</i> , 2016 , 11, 52-58	5.4	62
160	Nitrogen-Doped Graphene for Photocatalytic Hydrogen Generation. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 1125-37	4.5	49
159	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	17.1	82
158	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	13	32
157	Covalently functionalized graphene with organic semiconductors for energy and optoelectronic applications. <i>Materials Research Express</i> , 2016 , 3, 044001	1.7	7
156	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	17.1	37
155	Conformational Transitions of Polymer Brushes for Reversibly Switching Graphene Transistors. <i>Macromolecules</i> , 2016 , 49, 7434-7441	5.5	15

154	Fe@N-Graphene Nanoplatelet-Embedded Carbon Nanofibers as Efficient Electrocatalysts for Oxygen Reduction Reaction. <i>Advanced Science</i> , 2016 , 3, 1500205	13.6	39
153	Energy Conversion: Fe@N-Graphene Nanoplatelet-Embedded Carbon Nanofibers as Efficient Electrocatalysts for Oxygen Reduction Reaction (Adv. Sci. 1/2016). <i>Advanced Science</i> , 2016 , 3,	13.6	78
152	Nitrogenated holey two-dimensional structures. <i>Nature Communications</i> , 2015 , 6, 6486	17.4	684
151	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	10.4	9
150	Cobalt Oxide Encapsulated in C ₂ N-h ₂ D Network Polymer as a Catalyst for Hydrogen Evolution. <i>Chemistry of Materials</i> , 2015 , 27, 4860-4864	9.6	105
149	Graphene based 2D-materials for supercapacitors. <i>2D Materials</i> , 2015 , 2, 032002	5.9	60
148	High-performance dye-sensitized solar cells using edge-halogenated graphene nanoplatelets as counter electrodes. <i>Nano Energy</i> , 2015 , 13, 336-345	17.1	78
147	Graphene nanoplatelets with selectively functionalized edges as electrode material for electrochemical energy storage. <i>Langmuir</i> , 2015 , 31, 5676-83	4	23
146	Metal-free catalysts for oxygen reduction reaction. <i>Chemical Reviews</i> , 2015 , 115, 4823-92	68.1	1763
145	Wet-chemical nitrogen-doping of graphene nanoplatelets as electrocatalysts for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 7659-7665	13	39
144	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	21.8	90
143	Scalable Production of Edge-Functionalized Graphene Nanoplatelets via Mechanochemical Ball-Milling. <i>Advanced Functional Materials</i> , 2015 , 25, 6961-6975	15.6	105
142	Antimony-doped graphene nanoplatelets. <i>Nature Communications</i> , 2015 , 6, 7123	17.4	68
141	Fluorine: Edge-Fluorinated Graphene Nanoplatelets as High Performance Electrodes for Dye-Sensitized Solar Cells and Lithium Ion Batteries (Adv. Funct. Mater. 8/2015). <i>Advanced Functional Materials</i> , 2015 , 25, 1328-1328	15.6	6
140	Doped graphene supercapacitors. <i>Nanotechnology</i> , 2015 , 26, 492001	3.4	67
139	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	15.6	146
138	Graphene and molybdenum disulfide hybrids: synthesis and applications. <i>Materials Today</i> , 2015 , 18, 286-298	29.8	115
137	Graphene supported non-precious metal-macrocycle catalysts for oxygen reduction reaction in fuel cells. <i>Nanoscale</i> , 2015 , 7, 6991-8	7.7	56

- ¹³⁶ Graphene nanoplatelets doped with N at its edges as metal-free cathodes for organic dye-sensitized solar cells. *Advanced Materials*, **2014**, 26, 3055-62 24 132
- ¹³⁵ Direct solvothermal synthesis of B/N-doped graphene. *Angewandte Chemie - International Edition*, **2014**, 53, 2398-401 16.4 57
- ¹³⁴ B-Doped Graphene as an Electrochemically Superior Metal-Free Cathode Material As Compared to Pt over a Co(II)/Co(III) Electrolyte for Dye-Sensitized Solar Cell. *Chemistry of Materials*, **2014**, 26, 3586-3591 53
- ¹³³ Graphene oxide nanoribbon as hole extraction layer to enhance efficiency and stability of polymer solar cells. *Advanced Materials*, **2014**, 26, 786-90 24 94
- ¹³² A solvent-free Diels-Alder reaction of graphite into functionalized graphene nanosheets. *Chemical Communications*, **2014**, 50, 14651-3 5.8 27
- ¹³¹ Two and three dimensional network polymers for electrocatalysis. *Physical Chemistry Chemical Physics*, **2014**, 16, 11150-61 3.6 8
- ¹³⁰ Graphene phosphonic acid as an efficient flame retardant. *ACS Nano*, **2014**, 8, 2820-5 16.7 136
- ¹²⁹ Edge-selectively halogenated graphene nanoplatelets (XGnPs, X = Cl, Br, or I) prepared by ball-milling and used as anode materials for lithium-ion batteries. *Advanced Materials*, **2014**, 26, 7317-23²⁴ 133
- ¹²⁸ Edge-carboxylated graphene nanoplatelets as oxygen-rich metal-free cathodes for organic dye-sensitized solar cells. *Energy and Environmental Science*, **2014**, 7, 1044-1052 35.4 76
- ¹²⁷ Edge-iodine/sulfonic acid-functionalized graphene nanoplatelets as efficient electrocatalysts for oxygen reduction reaction. *Journal of Materials Chemistry A*, **2014**, 2, 8690-8695 13 39
- ¹²⁶ Graphene in photovoltaic applications: organic photovoltaic cells (OPVs) and dye-sensitized solar cells (DSSCs). *Journal of Materials Chemistry A*, **2014**, 2, 12136 13 89
- ¹²⁵ Modeling, processing, and characterization of exfoliated graphite nanoplatelet-nylon 6 composite fibers. *Composites Part B: Engineering*, **2014**, 66, 511-517 10 13
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