Jong-Beom Baek

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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	Nitrogen-doped graphene as efficient metal-free electrocatalyst for oxygen reduction in fuel cells. *ACS Nano*, **2010**, 4, 1321-6	16.7	3349
278	Metal-free catalysts for oxygen reduction reaction. *Chemical Reviews*, **2015**, 115, 4823-92	68.1	1763
277	Carbon nanomaterials for advanced energy conversion and storage. *Small*, **2012**, 8, 1130-66	11	1149
276	BCN graphene as efficient metal-free electrocatalyst for the oxygen reduction reaction. *Angewandte Chemie - International Edition*, **2012**, 51, 4209-12	16.4	996
275	An efficient and pH-universal ruthenium-based catalyst for the hydrogen evolution reaction. *Nature Nanotechnology*, **2017**, 12, 441-446	28.7	857
274	Polyaniline-grafted reduced graphene oxide for efficient electrochemical supercapacitors. *ACS Nano*, **2012**, 6, 1715-23	16.7	724
273	Nitrogenated holey two-dimensional structures. *Nature Communications*, **2015**, 6, 6486	17.4	684
272	Polyelectrolyte-functionalized graphene as metal-free electrocatalysts for oxygen reduction. *ACS Nano*, **2011**, 5, 6202-9	16.7	617
271	Graphene for energy conversion and storage in fuel cells and supercapacitors. *Nano Energy*, **2012**, 1, 534-551	17.1	548
270	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, 1386-93	16.4	497
269	Edge-carboxylated graphene nanosheets via ball milling. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 5588-93	11.5	496
268	Edge-selectively sulfurized graphene nanoplatelets as efficient metal-free electrocatalysts for oxygen reduction reaction: the electron spin effect. *Advanced Materials*, **2013**, 25, 6138-45	24	465
267	Soluble P3HT-grafted graphene for efficient bilayer-heterojunction photovoltaic devices. *ACS Nano* , **2010**, 4, 5633-40	16.7	415
266	Nanocomposites Derived from Polymers and Inorganic Nanoparticles. *Materials*, **2010**, 3, 3654-3674	3.5	352
265	Boosting oxygen reduction catalysis with abundant copper single atom active sites. *Energy and Environmental Science*, **2018**, 11, 2263-2269	35.4	301
264	Two-dimensional polyaniline (C3N) from carbonized organic single crystals in solid state. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 7414-9	11.5	278
263	Facile, scalable synthesis of edge-halogenated graphene nanoplatelets as efficient metal-free eletrocatalysts for oxygen reduction reaction. *Scientific Reports*, **2013**, 3, 1810	4.9	278

262	Nanoporous Graphene Enriched with Fe/Co-N Active Sites as a Promising Oxygen Reduction Electrocatalyst for Anion Exchange Membrane Fuel Cells. *Advanced Functional Materials*, **2016**, 26, 2150-2162	15.6	245
261	N-Doped graphene nanoplatelets as superior metal-free counter electrodes for organic dye-sensitized solar cells. *ACS Nano*, **2013**, 7, 5243-50	16.7	220
260	2D Frameworks of C N and C N as New Anode Materials for Lithium-Ion Batteries. *Advanced Materials*, **2017**, 29, 1702007	24	196
259	Sulfur-graphene nanostructured cathodes via ball-milling for high-performance lithium-sulfur batteries. *ACS Nano*, **2014**, 8, 10920-30	16.7	192
258	Direct nitrogen fixation at the edges of graphene nanoplatelets as efficient electrocatalysts for energy conversion. *Scientific Reports*, **2013**, 3, 2260	4.9	179
257	In Situ Synthesis of Poly(ethylene terephthalate) (PET) in Ethylene Glycol Containing Terephthalic Acid and Functionalized Multiwalled Carbon Nanotubes (MWNTs) as an Approach to MWNT/PET Nanocomposites. *Chemistry of Materials*, **2005**, 17, 5057-5064	9.6	163
256	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	9.6	161
255	Preparation of electrospun nanofibers of carbon nanotube/polycaprolactone nanocomposite. *Polymer*, **2006**, 47, 8019-8025	3.9	159
254	Ruthenium anchored on carbon nanotube electrocatalyst for hydrogen production with enhanced Faradaic efficiency. *Nature Communications*, **2020**, 11, 1278	17.4	156
253	Novel quinoxaline-based organic sensitizers for dye-sensitized solar cells. *Organic Letters*, **2011**, 13, 3880-3	6.2	152
252	BCN Graphene as Efficient Metal-Free Electrocatalyst for the Oxygen Reduction Reaction. *Angewandte Chemie*, **2012**, 124, 4285-4288	3.6	151
251	Recent Advances in Noble Metal (Pt, Ru, and Ir)-Based Electrocatalysts for Efficient Hydrogen Evolution Reaction. *ACS Omega*, **2020**, 5, 31-40	3.9	149
250	Edge-Fluorinated Graphene Nanoplatelets as High Performance Electrodes for Dye-Sensitized Solar Cells and Lithium Ion Batteries. *Advanced Functional Materials*, **2015**, 25, 1170-1179	15.6	146
249	Electrochemical supercapacitors from conducting polyaniline-graphene platforms. *Chemical Communications*, **2014**, 50, 6298-308	5.8	141
248	Graphene phosphonic acid as an efficient flame retardant. *ACS Nano*, **2014**, 8, 2820-5	16.7	136
247	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, 7317-23	24	133
246	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
245	Direct Synthesis of a Covalent Triazine-Based Framework from Aromatic Amides. *Angewandte Chemie - International Edition*, **2018**, 57, 8438-8442	16.4	129

244	Mechanochemically Assisted Synthesis of a Ru Catalyst for Hydrogen Evolution with Performance Superior to Pt in Both Acidic and Alkaline Media. *Advanced Materials*, **2018**, 30, e1803676	24	125
243	Graphene and molybdenum disulfide hybrids: synthesis and applications. *Materials Today*, **2015**, 18, 286-298	22.8	115
242	Building and identifying highly active oxygenated groups in carbon materials for oxygen reduction to HO. *Nature Communications*, **2020**, 11, 2209	17.4	107
241	Cobalt Oxide Encapsulated in C2N-h2D Network Polymer as a Catalyst for Hydrogen Evolution. *Chemistry of Materials*, **2015**, 27, 4860-4864	9.6	105
240	Scalable Production of Edge-Functionalized Graphene Nanoplatelets via Mechanochemical Ball-Milling. *Advanced Functional Materials*, **2015**, 25, 6961-6975	15.6	105
239	Controlled growth and modification of vertically-aligned carbon nanotubes for multifunctional applications. *Materials Science and Engineering Reports*, **2010**, 70, 63-91	30.9	104
238	Defect-Free Encapsulation of Fe in 2D Fused Organic Networks as a Durable Oxygen Reduction Electrocatalyst. *Journal of the American Chemical Society*, **2018**, 140, 1737-1742	16.4	103
237	Nitrogen-doped graphene nanoplatelets from simple solution edge-functionalization for n-type field-effect transistors. *Journal of the American Chemical Society*, **2013**, 135, 8981-8	16.4	102
236	Recent advances in ruthenium-based electrocatalysts for the hydrogen evolution reaction. *Nanoscale Horizons*, **2020**, 5, 43-56	10.8	101
235	High-yield exfoliation of three-dimensional graphite into two-dimensional graphene-like sheets. *Chemical Communications*, **2010**, 46, 6320-2	5.8	97
234	Graphene oxide nanoribbon as hole extraction layer to enhance efficiency and stability of polymer solar cells. *Advanced Materials*, **2014**, 26, 786-90	24	94
233	Exploration of the Effective Location of Surface Oxygen Defects in Graphene-Based Electrocatalysts for All-Vanadium Redox-Flow Batteries. *Advanced Energy Materials*, **2015**, 5, 1401550	21.8	90
232	Graphene in photovoltaic applications: organic photovoltaic cells (OPVs) and dye-sensitized solar cells (DSSCs). *Journal of Materials Chemistry A*, **2014**, 2, 12136	13	89
231	Large-area graphene films by simple solution casting of edge-selectively functionalized graphite. *ACS Nano*, **2011**, 5, 4974-80	16.7	85
230	Fe@C2N: A highly-efficient indirect-contact oxygen reduction catalyst. *Nano Energy*, **2018**, 44, 304-310	17.1	85
229	Fluorine Functionalized Graphene Nano Platelets for Highly Stable Inverted Perovskite Solar Cells. *Nano Letters*, **2017**, 17, 6385-6390	11.5	84
228	Macroporous Inverse Opal-like MoC with Incorporated Mo Vacancies for Significantly Enhanced Hydrogen Evolution. *ACS Nano*, **2017**, 11, 7527-7533	16.7	84
227	Two-Dimensional Covalent Organic Frameworks for Optoelectronics and Energy Storage. *ChemNanoMat*, **2017**, 3, 373-391	3.5	82

226	Edge-halogenated graphene nanoplatelets with F, Cl, or Br as electrocatalysts for all-vanadium redox flow batteries. *Nano Energy*, **2016**, 26, 233-240	17.1	82
225	Grafting of Vapor-Grown Carbon Nanofibers via in-Situ Polycondensation of 3-Phenoxybenzoic Acid in Poly(phosphoric acid). *Macromolecules*, **2004**, 37, 8278-8285	5.5	80
224	Covalent modification of vapour-grown carbon nanofibers via direct Friedel□rafts acylation in polyphosphoric acid. *Journal of Materials Chemistry*, **2004**, 14, 2052-2056		79
223	High-performance dye-sensitized solar cells using edge-halogenated graphene nanoplatelets as counter electrodes. *Nano Energy*, **2015**, 13, 336-345	17.1	78
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221	Edge-selenated graphene nanoplatelets as durable metal-free catalysts for iodine reduction reaction in dye-sensitized solar cells. *Science Advances*, **2016**, 2, e1501459	14.3	76
220	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
219	Edge-functionalized graphene-like platelets as a co-curing agent and a nanoscale additive to epoxy resin. *Journal of Materials Chemistry*, **2011**, 21, 7337		76
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217	Balancing hydrogen adsorption/desorption by orbital modulation for efficient hydrogen evolution catalysis. *Nature Communications*, **2019**, 10, 4060	17.4	70
216	Modification of bisphenol-A based bismaleimide resin (BPA-BMI) with an allyl-terminated hyperbranched polyimide (AT-PAEKI). *Polymer*, **2006**, 47, 2813-2821	3.9	70
215	Encapsulating Iridium Nanoparticles Inside a 3D Cage-Like Organic Network as an Efficient and Durable Catalyst for the Hydrogen Evolution Reaction. *Advanced Materials*, **2018**, 30, e1805606	24	69
214	Antimony-doped graphene nanoplatelets. *Nature Communications*, **2015**, 6, 7123	17.4	68
213	Doped graphene supercapacitors. *Nanotechnology*, **2015**, 26, 492001	3.4	67
212	Nb-doped TiO2 nanoparticles for organic dye-sensitized solar cells. *RSC Advances*, **2013**, 3, 16380	3.7	65
211	Multiwalled carbon nanotubes and nanofibers grafted with polyetherketones in mild and viscous polymeric acid. *Polymer*, **2006**, 47, 1132-1140	3.9	63
210	Controlled Fabrication of Hierarchically Structured Nitrogen-Doped Carbon Nanotubes as a Highly Active Bifunctional Oxygen Electrocatalyst. *Advanced Functional Materials*, **2017**, 27, 1605717	15.6	62
209	Synergistic Coupling Derived Cobalt Oxide with Nitrogenated Holey Two-Dimensional Matrix as an Efficient Bifunctional Catalyst for Metal-Air Batteries. *ACS Nano*, **2019**, 13, 5502-5512	16.7	62

208	Functionalized graphene nanoplatelets from ball milling for energy applications. *Current Opinion in Chemical Engineering*, **2016**, 11, 52-58	5.4	62
207	Enhancement of the field-effect mobility of poly(3-hexylthiophene)/functionalized carbon nanotube hybrid transistors. *Organic Electronics*, **2008**, 9, 317-322	3.5	61
206	Graphene based 2D-materials for supercapacitors. *2D Materials*, **2015**, 2, 032002	5.9	60
205	Porous Cobalt Phosphide Polyhedrons with Iron Doping as an Efficient Bifunctional Electrocatalyst. *Small*, **2017**, 13, 1701167	11	59
204	Direct solvothermal synthesis of B/N-doped graphene. *Angewandte Chemie - International Edition*, **2014**, 53, 2398-401	16.4	57
203	Graphene supported non-precious metal-macrocycle catalysts for oxygen reduction reaction in fuel cells. *Nanoscale*, **2015**, 7, 6991-8	7.7	56
202	Electrochemical supercapacitors based on a novel graphene/conjugated polymer composite system. *Journal of Materials Chemistry*, **2012**, 22, 12268		55
201	Semimetallic Transport in Nanocomposites Derived from Grafting of Linear and Hyperbranched Poly(phenylene sulfide)s onto the Surface of Functionalized Multi-Walled Carbon Nanotubes. *Macromolecules*, **2008**, 41, 7423-7432	5.5	55
200	Transport behavior of functionalized multi-wall carbon nanotubes in water-saturated quartz sand as a function of tube length. *Water Research*, **2012**, 46, 4521-31	12.5	54
199	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	9.6	53
198	Construction of Porous Mo P/Mo Nanobelts as Catalysts for Efficient Water Splitting. *Angewandte Chemie - International Edition*, **2018**, 57, 14139-14143	16.4	53
197	In situ Polymerization of Multi-Walled Carbon Nanotube/Nylon-6 Nanocomposites and Their Electrospun Nanofibers. *Nanoscale Research Letters*, **2009**, 4, 39-46	5	52
196	Improved syntheses of poly(oxy-1,3-phenylenecarbonyl-1,4-phenylene) and related poly(ether□ketones) using polyphosphoric acid/P2O5 as polymerization medium. *Polymer*, **2003**, 44, 4135-4147	3.9	52
195	Highly conducting and flexible few-walled carbon nanotube thin film. *ACS Nano*, **2011**, 5, 2324-31	16.7	51
194	A New Hyperbranched Poly(arylene□ether□ketone□imide): Synthesis, Chain-End Functionalization, and Blending with a Bis(maleimide). *Macromolecules*, **2002**, 35, 4951-4959	5.5	51
193	Mechanochemistry for ammonia synthesis under mild conditions. *Nature Nanotechnology*, **2021**, 16, 325-330	38.7	51
192	Identifying the structure of Zn-N active sites and structural activation. *Nature Communications*, **2019**, 10, 2623	17.4	50
191	Converting Unstable Imine-Linked Network into Stable Aromatic Benzoxazole-Linked One via Post-oxidative Cyclization. *Journal of the American Chemical Society*, **2019**, 141, 11786-11790	16.4	50

190	Nitrogen-Doped Graphene for Photocatalytic Hydrogen Generation. *Chemistry - an Asian Journal*, **2016**, 11, 1125-37	4.5	49
189	Water-dispersible, sulfonated hyperbranched poly(ether-ketone) grafted multiwalled carbon nanotubes as oxygen reduction catalysts. *ACS Nano*, **2012**, 6, 6345-55	16.7	48
188	Nanocomposites based on vapor-grown carbon nanofibers and an epoxy: Functionalization, preparation and characterization. *European Polymer Journal*, **2010**, 46, 1404-1416	5.2	47
187	Cloud-like graphene nanoplatelets on Nd0.5Sr0.5CoO3 nanorods as an efficient bifunctional electrocatalyst for hybrid Li air batteries. *Journal of Materials Chemistry A*, **2016**, 4, 2122-2127	13	46
186	The oxidation mechanism of highly ordered pyrolytic graphite in a nitric acid/sulfuric acid mixture. *Carbon*, **2013**, 52, 493-498	10.4	46
185	Simple solution-based synthesis of pyridinic-rich nitrogen-doped graphene nanoplatelets for supercapacitors. *Applied Energy*, **2017**, 195, 1071-1078	10.7	46
184	In situ grafting of carboxylic acid-terminated hyperbranched poly(ether-ketone) to the surface of carbon nanotubes. *Polymer*, **2007**, 48, 4034-4040	3.9	46
183	Stability of multi-walled carbon nanotubes in commonly used acidic media. *Carbon*, **2012**, 50, 1465-1476	10.4	45
182	In-Situ Grafting of Hyperbranched Poly(ether ketone)s onto Multiwalled Carbon Nanotubes via the A3 + B2 Approach. *Macromolecules*, **2007**, 40, 4474-4480	5.5	44
181	Mechanochemically driven solid-state Diels Alder reaction of graphite into graphene nanoplatelets. *Chemical Science*, **2013**, 4, 4273	9.4	42
180	Nanocomposites Derived from a Low-Color Aromatic Polyimide (CP2) and Amine-Functionalized Vapor-Grown Carbon Nanofibers: In Situ Polymerization and Characterization. *Macromolecules*, **2007**, 40, 6100-6111	5.5	41
179	Wet-chemical nitrogen-doping of graphene nanoplatelets as electrocatalysts for the oxygen reduction reaction. *Journal of Materials Chemistry A*, **2015**, 3, 7659-7665	13	39
178	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
177	Fe@N-Graphene Nanoplatelet-Embedded Carbon Nanofibers as Efficient Electrocatalysts for Oxygen Reduction Reaction. *Advanced Science*, **2016**, 3, 1500205	13.6	39
176	Edge-carboxylated graphene nanoplatelets as efficient electrode materials for electrochemical supercapacitors. *Carbon*, **2019**, 142, 89-98	10.4	39
175	Nanocomposites derived from in situ grafting of linear and hyperbranched poly(ether-ketone)s containing flexible oxyethylene spacers onto the surface of multiwalled carbon nanotubes. *Journal of Polymer Science Part A*, **2008**, 46, 3471-3481	2.5	38
174	Nitrogen-Doped Carbon Nanomaterials: Synthesis, Characteristics and Applications. *Chemistry - an Asian Journal*, **2020**, 15, 2282-2293	4.5	38
173	Direct grafting of linear macromolecular wedges to the edge of pristine graphite to prepare edge-functionalized graphene-based polymer composites. *Journal of Materials Chemistry*, **2010**, 20, 10936		37

172	Metalloid tellurium-doped graphene nanoplatelets as ultimately stable electrocatalysts for cobalt reduction reaction in dye-sensitized solar cells. *Nano Energy*, **2016**, 30, 867-876	17.1	37
171	Understanding of the capacity contribution of carbon in phosphorus-carbon composites for high-performance anodes in lithium ion batteries. *Nano Research*, **2017**, 10, 1268-1281	10	36
170	Unusual thermal relaxation of viscosity-and-shear-induced strain in poly(ether-ketones) synthesized in highly viscous polyphosphoric acid/P2O5 medium. *Polymer*, **2005**, 46, 1543-1552	3.9	36
169	Effects of process parameters and surface treatments of graphene nanoplatelets on the crystallinity and thermomechanical properties of polyamide 6 composite fibers. *Composites Part B: Engineering*, **2016**, 100, 220-227	10	35
168	A Robust 3D Cage-like Ultramicroporous Network Structure with High Gas-Uptake Capacity. *Angewandte Chemie - International Edition*, **2018**, 57, 3415-3420	16.4	34
167	The promise of hydrogen production from alkaline anion exchange membrane electrolyzers. *Nano Energy*, **2021**, 87, 106162	17.1	34
166	Solvent-free mechanochemical reduction of graphene oxide. *Carbon*, **2014**, 77, 501-507	10.4	33
165	Grafting of polyaniline onto the surface of 4-aminobenzoyl-functionalized multiwalled carbon nanotube and its electrochemical properties. *Journal of Polymer Science Part A*, **2010**, 48, 3103-3112	2.5	33
164	One-pot purification and functionalization of single-walled carbon nanotubes in less-corrosive poly(phosphoric acid). *Carbon*, **2008**, 46, 1841-1849	10.4	33
163	Molybdenum-Based Carbon Hybrid Materials to Enhance the Hydrogen Evolution Reaction. *Chemistry - A European Journal*, **2018**, 24, 18158-18179	4.8	33
162	Heavily aluminated graphene nanoplatelets as an efficient flame-retardant. *Carbon*, **2017**, 116, 77-83	10.4	32
161	Edge-selectively antimony-doped graphene nanoplatelets as an outstanding counter electrode with an unusual electrochemical stability for dye-sensitized solar cells employing cobalt electrolytes. *Journal of Materials Chemistry A*, **2016**, 4, 9029-9037	13	32
160	Hyperbranched Macromolecules: From Synthesis to Applications. *Molecules*, **2018**, 23,	4.8	31
159	Nanocomposite prepared from in situ grafting of polypyrrole to aminobenzoyl-functionalized multiwalled carbon nanotube and its electrochemical properties. *Journal of Polymer Science Part A*, **2011**, 49, 2529-2537	2.5	31
158	Self-Controlled Synthesis of Hyperbranched Poly(ether ketone)s from A3 + B2 Approach via Different Solubilities of Monomers in the Reaction Medium. *Macromolecules*, **2006**, 39, 9057-9063	5.5	31
157	Thermal behaviour of poly (phenylene sulfide) and its derivatives. *Polymer*, **1993**, 34, 2524-2527	3.9	31
156	Edge-selectively functionalized graphene nanoplatelets. *Chemical Record*, **2013**, 13, 224-38	6.6	30
155	Epoxy/amine-functionalized short-length vapor-grown carbon nanofiber composites. *Journal of Polymer Science Part A*, **2008**, 46, 7473-7482	2.5	30

154	Fluorine- and Hydroxyl-Terminated Hyperbranched Poly(phenylquinoxalines) (PPQs) from Copolymerization of Self-Polymerizable AB and AB2, BA, and BA2 Monomers. *Macromolecules*, **2005**, 38, 1131-1140	5.5	30
153	Revealing Isolated M-N C Active Sites for Efficient Collaborative Oxygen Reduction Catalysis. *Angewandte Chemie - International Edition*, **2020**, 59, 23678-23683	16.4	30
152	Direct Synthesis of a Covalent Triazine-Based Framework from Aromatic Amides. *Angewandte Chemie*, **2018**, 130, 8574-8578	3.6	29
151	Organic Ferromagnetism: Trapping Spins in the Glassy State of an Organic Network Structure. *CheM*, **2018**, 4, 2357-2369	16.2	29
150	Hyperbranched Polyphenylquinoxalines from Self-Polymerizable AB2 and A2B Monomers. *Macromolecules*, **2005**, 38, 297-306	5.5	29
149	Edge-Functionalized Graphene Nanoplatelets as Metal-Free Electrocatalysts for Dye-Sensitized Solar Cells. *Advanced Materials*, **2019**, 31, e1804440	24	29
148	A solvent-free Diels-Alder reaction of graphite into functionalized graphene nanosheets. *Chemical Communications*, **2014**, 50, 14651-3	5.8	27
147	Functionalization of Carbon Nanotubes **2011**,		27
146	Synthesis and electrical properties of polyaniline/polyaniline grafted multiwalled carbon nanotube mixture via in situ static interfacial polymerization. *Journal of Polymer Science Part A*, **2010**, 48, 1962-1972	2.5	27
145	3D Macroporous MoxC@N-C with Incorporated Mo Vacancies as Anodes for High-Performance Lithium-Ion Batteries. *Small Methods*, **2018**, 2, 1800040	12.8	26
144	Multifunctional quinoxaline containing small molecules with multiple electron-donating moieties: Solvatochromic and optoelectronic properties. *Synthetic Metals*, **2012**, 162, 1169-1176	3.6	26
143	Note: Thermal conductivity measurement of individual poly(ether ketone)/carbon nanotube fibers using a steady-state dc thermal bridge method. *Review of Scientific Instruments*, **2012**, 83, 016103	1.7	26
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141	Linear-hyperbranched copolymerization as a tool to modulate thermal properties and crystallinity of a para-poly(ether-ketone). *Polymer*, **2003**, 44, 3451-3459	3.9	26
140	Wedging graphite into graphene and graphene-like platelets by dendritic macromolecules. *Journal of Materials Chemistry*, **2011**, 21, 7820		24
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138	Robust fused aromatic pyrazine-based two-dimensional network for stably cocooning iron nanoparticles as an oxygen reduction electrocatalyst. *Nano Energy*, **2019**, 56, 581-587	17.1	24
137	Graphene nanoplatelets with selectively functionalized edges as electrode material for electrochemical energy storage. *Langmuir*, **2015**, 31, 5676-83	4	23

136	Carbon-Heteroatom Bond Formation by an Ultrasonic Chemical Reaction for Energy Storage Systems. *Advanced Materials*, **2017**, 29, 1702747	24	23
135	Edge-exfoliated graphites for facile kinetics of delithiation. *ACS Nano*, **2012**, 6, 10770-5	16.7	23
134	A facile approach to tailoring electrocatalytic activities of imine-rich nitrogen-doped graphene for oxygen reduction reaction. *Carbon*, **2017**, 122, 515-523	10.4	22
133	Enhancing the Photocatalytic Activity of TiO2 Catalysts. *Advanced Sustainable Systems*, **2020**, 4, 2000197	5.9	22
132	Fused Aromatic Network Structures as a Platform for Efficient Electrocatalysis. *Advanced Materials*, **2019**, 31, e1805062	24	22
131	Electrochemical activity of a polyaniline/polyaniline-grafted multiwalled carbon nanotube mixture produced by a simple suspension polymerization. *Electrochimica Acta*, **2011**, 56, 10023-10031	6.7	21
130	Processing, structure and properties of poly(ether ketone) grafted few wall carbon nanotube composite fibers. *Polymer*, **2010**, 51, 3940-3947	3.9	21
129	Poly(2,5-benzoxazole)/carbon nanotube composites via in situ polymerization of 3-amino-4-hydroxybenzoic acid hydrochloride in a mild poly(phosphoric acid). *European Polymer Journal*, **2008**, 44, 1603-1612	5.2	21
128	Charge transport in graphene oxide. *Nano Today*, **2017**, 17, 38-53	17.9	20
127	Grafting of vapor-grown carbon nanofibers (VGCNF) with a hyperbranched poly(ether-ketone). *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2006**, 132, 103-107	3.1	19
126	Defect/Edge-Selective Functionalization of Carbon Materials by "Direct" Friedel-Crafts Acylation Reaction. *Advanced Materials*, **2017**, 29, 1606317	24	18
125	Graphene and molybdenum disulphide hybrids for energy applications: an update. *Materials Today Advances*, **2020**, 6, 100053	7.4	18
124	Eco-friendly synthesis of graphene nanoplatelets. *Journal of Materials Chemistry A*, **2016**, 4, 15281-15293	13	18
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120	Carbon-Based Electrocatalysts for Efficient Hydrogen Peroxide Production. *Advanced Materials*, **2021**, e2103266	24	18
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