Sang Ouk Kim

List of Publications by Year in Descending Order

280 papers	20,444 citations	77 h-index	136 g-index
310 ext. papers	22,395 ext. citations	12.2 avg, IF	6.82 L-index

#	Paper	IF	Citations
280	Large-area Uniform 1-nm-level Amorphous Carbon Layers from 3D Conformal Polymer Brushes. A "Next-generation" Cu Diffusion Barrier?. *Advanced Materials*, **2022**, e2110454	24	1
279	Molecular-Level Lubrication Effect of 0D Nanodiamonds for Highly Bendable Graphene Liquid Crystalline Fibers.. *ACS Applied Materials & Interfaces*, **2022**,	9.5	1
278	Large-Area Uniform 1-nm-Level Amorphous Carbon Layers from 3D Conformal Polymer Brushes. A Next-Generation Cu Diffusion Barrier? (Adv. Mater. 15/2022). *Advanced Materials*, **2022**, 34, 2270113	24	
277	Spectral Instability of Layered Mixed Halide Perovskites Results from Anion Phase Redistribution and Selective Hole Injection. *ACS Nano*, **2021**, 15, 1486-1496	16.7	8
276	Synthesis of carboxylic acid-functionalized polymethacrylate-b-polystyrene as an Ag ion-loadable block copolymer thin film template. *Polymer*, **2021**, 217, 123462	3.9	1
275	Discovery of Single-Atom Catalyst: Customized Heteroelement Dopants on Graphene. *Accounts of Materials Research*, **2021**, 2, 394-406	7.5	3
274	Hetero-Dimensional 2D TiCT MXene and 1D Graphene Nanoribbon Hybrids for Machine Learning-Assisted Pressure Sensors. *ACS Nano*, **2021**, 15, 10347-10356	16.7	18
273	Self-Assembled Nano Lotus Pod Metasurface for Light Trapping. *ACS Photonics*, **2021**, 8, 1616-1622	6.3	1
272	Multidimensional TiCT MXene Architectures Interfacial Electrochemical Self-Assembly. *ACS Nano*, **2021**, 15, 10058-10066	16.7	18
271	Carbon Nanofibers as Potential Catalyst Support for Fuel Cell Cathodes: A Review. *Energy & Fuels*, **2021**, 35, 11761-11799	4.1	8
270	CNT-rGO Hydrogel-Integrated Fabric Composite Synthesized via an Interfacial Gelation Process for Wearable Supercapacitor Electrodes. *ACS Omega*, **2021**, 6, 19578-19585	3.9	3
269	Universal Alignment of Graphene Oxide in Suspensions and Fibers. *ACS Nano*, **2021**,	16.7	3
268	Tailored growth of graphene oxide liquid crystals with controlled polymer crystallization in GO-polymer composites. *Nanoscale*, **2021**, 13, 2720-2727	7.7	1
267	Synthetic multiscale design of nanostructured Ni single atom catalyst for superior CO2 electroreduction. *Chemical Engineering Journal*, **2021**, 426, 131063	14.7	14
266	Alloying of Alkali Metals with Tellurene. *Advanced Energy Materials*, **2021**, 11, 2003248	21.8	3
265	Monodisperse Carbon Nitride Nanosheets as Multifunctional Additives for Efficient and Durable Perovskite Solar Cells.. *ACS Applied Materials & Interfaces*, **2021**, 13, 61215-61226	9.5	1
264	Highly Aligned Carbon Nanowire Array by E-Field Directed Assembly of PAN-Containing Block Copolymers. *ACS Applied Materials & Interfaces*, **2020**, 12, 58113-58121	9.5	3

263	Self-Planarization of High-Performance Graphene Liquid Crystalline Fibers by Hydration. *ACS Central Science*, **2020**, 6, 1105-1114	16.8	8
262	Air-Stable Perovskite Nanostructures with Dimensional Tunability by Polymerizable Structure-Directing Ligands. *ACS Applied Materials & Interfaces*, **2020**, 12, 31770-31775	9.5	3
261	Nanoscale Assembly of 2D Materials for Energy and Environmental Applications. *Advanced Materials*, **2020**, 32, e1907006	24	45
260	N2-dopant of graphene with electrochemically switchable bifunctional ORR/OER catalysis for Zn-air battery. *Energy Storage Materials*, **2020**, 32, 517-524	19.4	30
259	Electromagnetic Interference Shielding: Electromagnetic Shielding of Monolayer MXene Assemblies (Adv. Mater. 9/2020). *Advanced Materials*, **2020**, 32, 2070064	24	12
258	Electromagnetic Shielding of Monolayer MXene Assemblies. *Advanced Materials*, **2020**, 32, e1906769	24	207
257	Ultra-large area graphene hybrid hydrogel for customized performance supercapacitors: High volumetric, areal energy density and potential wearability. *Electrochimica Acta*, **2020**, 332, 135492	6.7	15
256	Longitudinal unzipping of 2D transition metal dichalcogenides. *Nature Communications*, **2020**, 11, 5032	17.4	7
255	2D graphene oxide liquid crystal for real-world applications: Energy, environment, and antimicrobial. *APL Materials*, **2020**, 8, 070903	5.7	12
254	2D Materials Decorated with Ultrathin and Porous Graphene Oxide for High Stability and Selective Surface Activity. *Advanced Materials*, **2020**, 32, e2002723	24	18
253	Large-Area Alignment of Supramolecular Columns by Photothermal Laser Writing. *Advanced Materials*, **2020**, 32, e2002620	24	3
252	Mussel Inspired Highly Aligned TiCT MXene Film with Synergistic Enhancement of Mechanical Strength and Ambient Stability. *ACS Nano*, **2020**, 14, 11722-11732	16.7	78
251	Tungsten nitride-coated graphene fibers for high-performance wearable supercapacitors. *Nanoscale*, **2020**, 12, 20239-20249	7.7	16
250	Deep-Learning-Based Deconvolution of Mechanical Stimuli with TiCT MXene Electromagnetic Shield Architecture Dual-Mode Wireless Signal Variation Mechanism. *ACS Nano*, **2020**, 14, 11962-11972	16.7	10
249	Smart Nanostructured Materials based on Self-Assembly of Block Copolymers. *Advanced Functional Materials*, **2020**, 30, 1902049	15.6	27
248	Intact Crystalline Semiconducting Graphene Nanoribbons from Unzipping Nitrogen-Doped Carbon Nanotubes. *ACS Applied Materials & Interfaces*, **2019**, 11, 38006-38015	9.5	9
247	Nitrogen-Dopant-Induced Organic–Inorganic Hybrid Perovskite Crystal Growth on Carbon Nanotubes. *Advanced Functional Materials*, **2019**, 29, 1902489	15.6	11
246	Cobalt Based Nanoparticles Embedded Reduced Graphene Oxide Aerogel for Hydrogen Evolution Electrocatalyst. *Particle and Particle Systems Characterization*, **2019**, 36, 1900090	3.1	8

245	A perspective on R&D status of energy storage systems in South Korea. *Energy Storage Materials*, **2019**, 23, 154-158	19.4	7
244	Nanopatterns with a Square Symmetry from an Orthogonal Lamellar Assembly of Block Copolymers. *ACS Applied Materials & Interfaces*, **2019**, 11, 20265-20271	9.5	8
243	Flash-induced ultrafast recrystallization of perovskite for flexible light-emitting diodes. *Nano Energy*, **2019**, 61, 236-244	17.1	20
242	Ambient Stabilization of Few Layer Phosphorene via Noncovalent Functionalization with Surfactants: Systematic 2D NMR Characterization in Aqueous Dispersion. *Chemistry of Materials*, **2019**, 31, 2786-2794	9.6	30
241	Spontaneous Nanobelt Formation by Self-Assembly of Benzyl GABA. *Chemistry - an Asian Journal*, **2019**, 14, 1945-1948	4.5	
240	Directed Nanoscale Self-Assembly of Natural Photosystems on Nitrogen-Doped Carbon Nanotubes for Solar-Energy Harvesting.. *ACS Applied Bio Materials*, **2019**, 2, 2109-2115	4.1	5
239	Open porous graphene nanoribbon hydrogel via additive-free interfacial self-assembly: Fast mass transport electrodes for high-performance biosensing and energy storage. *Energy Storage Materials* , **2019**, 16, 251-258	19.4	17
238	Effective and sustainable Cs+ remediation via exchangeable sodium-ion sites in graphene oxide fibers. *Journal of Materials Chemistry A*, **2019**, 7, 17754-17760	13	4
237	Janus Graphene Liquid Crystalline Fiber with Tunable Properties Enabled by Ultrafast Flash Reduction. *Small*, **2019**, 15, e1901529	11	15
236	Conformal 3D Nanopatterning by Block Copolymer Lithography with Vapor-Phase Deposited Neutral Adlayer. *ACS Nano*, **2019**, 13, 13092-13099	16.7	10
235	High-Energy Efficiency Membraneless Flowless Zn-Br Battery: Utilizing the Electrochemical-Chemical Growth of Polybromides. *Advanced Materials*, **2019**, 31, e1904524	24	37
234	Reversible Alloying of Phosphorene with Potassium and Its Stabilization Using Reduced Graphene Oxide Buffer Layers. *ACS Nano*, **2019**, 13, 14094-14106	16.7	21
233	Utilizing Hidden Surfaces: End-Cap Removal of Carbon Nanotubes for Improved Lithium Storage. *Journal of Physical Chemistry C*, **2019**, 123, 6220-6228	3.8	2
232	Unravelling inherent electrocatalysis of mixed-conducting oxide activated by metal nanoparticle for fuel cell electrodes. *Nature Nanotechnology*, **2019**, 14, 245-251	28.7	59
231	Fe-N4 complex embedded free-standing carbon fabric catalysts for higher performance ORR both in alkaline & acidic media. *Nano Energy*, **2019**, 56, 524-530	17.1	56
230	Joule heating-induced sp2-restoration in graphene fibers. *Carbon*, **2019**, 142, 230-237	10.4	27
229	Photoexcitation-Controllable Magnetization in Magnetic Semiconducting Nanohybrid Containing Fe2O3 Graphene (0D 2D) van der Waals Heterostructure Based on Steady-State Pump Probe Light Scattering Measurement in Magnetic Field. *Journal of Physical Chemistry C*, **2018**, 122, 6912-6917	3.8	2
228	Laser-Directed Self-Assembly of Highly Aligned Lamellar and Cylindrical Block Copolymer Nanostructures: Experiment and Simulation. *Macromolecules*, **2018**, 51, 1418-1426	5.5	16

227	High Activity Hydrogen Evolution Catalysis by Uniquely Designed Amorphous/Metal Interface of Core□hell Phosphosulfide/N-Doped CNTs. *Advanced Energy Materials*, **2018**, 8, 1702806	21.8	35
226	Perovskite Light-Emitting Diodes via Laser Crystallization: Systematic Investigation on Grain Size Effects for Device Performance. *ACS Applied Materials & Interfaces*, **2018**, 10, 2490-2495	9.5	27
225	The Effect of Thickness and Chemical Reduction of Graphene Oxide on Nanoscale Friction. *Journal of Physical Chemistry B*, **2018**, 122, 543-547	3.4	18
224	Graphene-based materials and structures for energy harvesting with fluids □A review. *Materials Today*, **2018**, 21, 1019-1041	21.8	50
223	Graphene oxide liquid crystals: a frontier 2D soft material for graphene-based functional materials. *Chemical Society Reviews*, **2018**, 47, 6013-6045	58.5	88
222	Mussel-Inspired Defect Engineering of Graphene Liquid Crystalline Fibers for Synergistic Enhancement of Mechanical Strength and Electrical Conductivity. *Advanced Materials*, **2018**, 30, e1803267	24	49
221	Tailored Colloidal Stability and Rheological Properties of Graphene Oxide Liquid Crystals with Polymer-Induced Depletion Attractions. *ACS Nano*, **2018**, 12, 11399-11406	16.7	17
220	Ultralarge Area Sub-10 nm Plasmonic Nanogap Array by Block Copolymer Self-Assembly for Reliable High-Sensitivity SERS. *ACS Applied Materials & Interfaces*, **2018**, 10, 44660-44667	9.5	36
219	2D Nanopatterning: 2D Metal Chalcogenide Nanopatterns by Block Copolymer Lithography (Adv. Funct. Mater. 50/2018). *Advanced Functional Materials*, **2018**, 28, 1870354	15.6	3
218	Graphene Fibers: Mussel-Inspired Defect Engineering of Graphene Liquid Crystalline Fibers for Synergistic Enhancement of Mechanical Strength and Electrical Conductivity (Adv. Mater. 40/2018). *Advanced Materials*, **2018**, 30, 1870298	24	2
217	Ultrastable Graphene-Encapsulated 3 nm Nanoparticles by In Situ Chemical Vapor Deposition. *Advanced Materials*, **2018**, 30, e1805023	24	17
216	2D Metal Chalcogenide Nanopatterns by Block Copolymer Lithography. *Advanced Functional Materials*, **2018**, 28, 1804508	15.6	22
215	Enhancing the Performance of Surface Plasmon Resonance Biosensor via Modulation of Electron Density at the Graphene□old Interface. *Advanced Materials Interfaces*, **2018**, 5, 1800433	4.6	10
214	Synergistically enhanced photocatalytic activity of graphitic carbon nitride and WO3 nanohybrids mediated by photo-Fenton reaction and H2O2. *Applied Catalysis B: Environmental*, **2017**, 206, 263-270	21.8	47
213	Controlled Segmentation of Metal Nanowire Array by Block Copolymer Lithography and Reversible Ion Loading. *Small*, **2017**, 13, 1603939	11	14
212	Amorphous Molybdenum Sulfide Deposited Graphene Liquid Crystalline Fiber for Hydrogen Evolution Reaction Catalysis. *Particle and Particle Systems Characterization*, **2017**, 34, 1600375	3.1	24
211	Self-Assembly of Complex Multimetal Nanostructures from Perforated Lamellar Block Copolymer Thin Films. *ACS Applied Materials & Interfaces*, **2017**, 9, 15727-15732	9.5	18
210	Perylene tetracarboxylate surfactant assisted liquid phase exfoliation of graphite into graphene nanosheets with facile re-dispersibility in aqueous/organic polar solvents. *Carbon*, **2017**, 119, 555-568	10.4	58

209	Cobalt-Based Active Species Molecularly Immobilized on Carbon Nanotubes for the Oxygen Reduction Reaction. *ChemSusChem*, **2017**, 10, 3473-3481	8.3	16
208	Flash Light Millisecond Self-Assembly of High Block Copolymers for Wafer-Scale Sub-10 nm Nanopatterning. *Advanced Materials*, **2017**, 29, 1700595	24	66
207	Alkylated sulfonated poly(arylene sulfone)s for proton exchange membranes. *Macromolecular Research*, **2017**, 25, 400-407	1.9	4
206	Hybrid Perovskites: Effective Crystal Growth for Optoelectronic Applications. *Advanced Energy Materials*, **2017**, 7, 1602596	21.8	54
205	Selective protein transport through ultra-thin suspended reduced graphene oxide nanopores. *Nanoscale*, **2017**, 9, 13457-13464	7.7	14
204	Microtopography-Guided Conductive Patterns of Liquid-Driven Graphene Nanoplatelet Networks for Stretchable and Skin-Conformal Sensor Array. *Advanced Materials*, **2017**, 29, 1606453	24	77
203	Nitrogen Dopants in Carbon Nanomaterials: Defects or a New Opportunity?. *Small Methods*, **2017**, 1, 1600014	12.8	114
202	Spontaneous linker-free binding of polyoxometalates on nitrogen-doped carbon nanotubes for efficient water oxidation. *Journal of Materials Chemistry A*, **2017**, 5, 1941-1947	13	39
201	Single-layer graphene-wrapped Li4Ti5O12 anode with superior lithium storage capability. *Carbon*, **2017**, 114, 275-283	10.4	52
200	Ultrafast Interfacial Self-Assembly of 2D Transition Metal Dichalcogenides Monolayer Films and Their Vertical and In-Plane Heterostructures. *ACS Applied Materials & Interfaces*, **2017**, 9, 1021-1028	9.5	30
199	Wide concentration liquid crystallinity of graphene oxide aqueous suspensions with interacting polymers. *Materials Horizons*, **2017**, 4, 1157-1164	14.4	20
198	Electric field directed self-assembly of block copolymers for rapid formation of large-area complex nanopatterns. *Molecular Systems Design and Engineering*, **2017**, 2, 560-566	4.6	20
197	Phosphorene for energy and catalytic applications: filling the gap between graphene and 2D metal chalcogenides. *2D Materials*, **2017**, 4, 042006	5.9	38
196	Supramolecular Nanotubules as a Catalytic Regulator for Palladium Cations: Applications in Selective Catalysis. *Angewandte Chemie - International Edition*, **2017**, 56, 11511-11514	16.4	36
195	UV-crosslinked poly(arylene ether sulfone) LAPONITE nanocomposites for proton exchange membranes. *RSC Advances*, **2017**, 7, 28358-28365	3.7	4
194	Supramolecular Nanotubules as a Catalytic Regulator for Palladium Cations: Applications in Selective Catalysis. *Angewandte Chemie*, **2017**, 129, 11669-11672	3.6	5
193	Single-step self-assembly of multilayer graphene based dielectric nanostructures. *FlatChem*, **2017**, 4, 61-67	5.1	7
192	Interface-Confined High Crystalline Growth of Semiconducting Polymers at Graphene Fibers for High-Performance Wearable Supercapacitors. *ACS Nano*, **2017**, 11, 9424-9434	16.7	75

191	Omnidirectional Deformable Energy Textile for Human Joint Movement Compatible Energy Storage. *ACS Applied Materials & Interfaces*, **2017**, 9, 41363-41370	9.5	11
190	Carbon nanotube-grafted inverse opal nanostructures. *Optical Materials Express*, **2017**, 7, 2242	2.6	2
189	Bimodal phase separated block copolymer/homopolymer blends self-assembly for hierarchical porous metal nanomesh electrodes. *Nanoscale*, **2017**, 10, 100-108	7.7	11
188	Divalent Fe Atom Coordination in Two-Dimensional Microporous Graphitic Carbon Nitride. *ACS Applied Materials & Interfaces*, **2016**, 8, 25438-43	9.5	46
187	Alloyed Nanoparticles: Low-Temperature Chemical Vapor Deposition Synthesis of Pt□o Alloyed Nanoparticles with Enhanced Oxygen Reduction Reaction Catalysis (Adv. Mater. 33/2016). *Advanced Materials*, **2016**, 28, 7292-7292	24	1
186	Application of N-Doped Three-Dimensional Reduced Graphene Oxide Aerogel to Thin Film Loudspeaker. *ACS Applied Materials & Interfaces*, **2016**, 8, 22295-300	9.5	24
185	Fabrication of 50 nm scale Pt nanostructures by block copolymer (BCP) and its characteristics of surface-enhanced Raman scattering (SERS). *RSC Advances*, **2016**, 6, 70756-70762	3.7	9
184	Hierarchical Directed Self-Assembly of Diblock Copolymers for Modified Pattern Symmetry. *Advanced Functional Materials*, **2016**, 26, 6462-6470	15.6	14
183	Hierarchical spatial heterogeneity in liquid crystals composed of graphene oxides. *Physical Chemistry Chemical Physics*, **2016**, 18, 22399-406	3.6	15
182	Highly tunable refractive index visible-light metasurface from block copolymer self-assembly. *Nature Communications*, **2016**, 7, 12911	17.4	109
181	Atomic thin titania nanosheet-coupled reduced graphene oxide 2D heterostructures for enhanced photocatalytic activity and fast lithium storage. *Electronic Materials Letters*, **2016**, 12, 211-218	2.9	12
180	3D Tailored Crumpling of Block-Copolymer Lithography on Chemically Modified Graphene. *Advanced Materials*, **2016**, 28, 1591-6	24	46
179	Dopant-specific unzipping of carbon nanotubes for intact crystalline graphene nanostructures. *Nature Communications*, **2016**, 7, 10364	17.4	94
178	Subnanometer Cobalt-Hydroxide-Anchored N-Doped Carbon Nanotube Forest for Bifunctional Oxygen Catalyst. *ACS Applied Materials & Interfaces*, **2016**, 8, 1571-7	9.5	62
177	Laser Writing Block Copolymer Self-Assembly on Graphene Light-Absorbing Layer. *ACS Nano*, **2016**, 10, 3435-42	16.7	89
176	One-Dimensional RuO2/Mn2O3 Hollow Architectures as Efficient Bifunctional Catalysts for Lithium-Oxygen Batteries. *Nano Letters*, **2016**, 16, 2076-83	11.5	164
175	Two-Terminal Graphene Oxide Devices for Electrical Modulation of Broadband Terahertz Waves. *Advanced Optical Materials*, **2016**, 4, 548-554	8.1	2
174	Liquid Crystals: Graphene Oxide Liquid Crystals: Discovery, Evolution and Applications (Adv. Mater. 16/2016). *Advanced Materials*, **2016**, 28, 3044	24	2

173	Graphene Oxide Liquid Crystals: Discovery, Evolution and Applications. *Advanced Materials*, **2016**, 28, 3045-68	24	167
172	Low-Temperature Chemical Vapor Deposition Synthesis of Pt-Co Alloyed Nanoparticles with Enhanced Oxygen Reduction Reaction Catalysis. *Advanced Materials*, **2016**, 28, 7115-22	24	122
171	Laser Crystallization of Organic-Inorganic Hybrid Perovskite Solar Cells. *ACS Nano*, **2016**, 10, 7907-14	16.7	95
170	Effective control of crystal grain size in CH3NH3PbI3 perovskite solar cells with a pseudohalide Pb(SCN)2 additive. *CrystEngComm*, **2016**, 18, 6090-6095	3.3	71
169	Atomic layer deposition assisted sacrificial template synthesis of mesoporous TiO2 electrode for high performance lithium ion battery anodes. *Energy Storage Materials*, **2016**, 2, 27-34	19.4	26
168	Large-Area Buckled MoS2 Films on the Graphene Substrate. *ACS Applied Materials & Interfaces*, **2016**, 8, 13512-9	9.5	30
167	Complex High-Aspect-Ratio Metal Nanostructures by Secondary Sputtering Combined with Block Copolymer Self-Assembly. *Advanced Materials*, **2016**, 28, 8439-8445	24	21
166	High Energy Density All Solid State Asymmetric Pseudocapacitors Based on Free Standing Reduced Graphene Oxide-Co3O4 Composite Aerogel Electrodes. *ACS Applied Materials & Interfaces*, **2016**, 8, 22253-60	9.5	44
165	Enhancing Organic Solar Cells with Plasmonic Nanomaterials. *ChemNanoMat*, **2016**, 2, 19-27	3.5	11
164	Systematic study on the sensitivity enhancement in graphene plasmonic sensors based on layer-by-layer self-assembled graphene oxide multilayers and their reduced analogues. *ACS Applied Materials & Interfaces*, **2015**, 7, 144-51	9.5	51
163	Direct Observation of a Carbon Filament in Water-Resistant Organic Memory. *ACS Nano*, **2015**, 9, 7306-13	16.7	65
162	Au-Ag core-shell nanoparticle array by block copolymer lithography for synergistic broadband plasmonic properties. *ACS Nano*, **2015**, 9, 5536-43	16.7	112
161	Self-Size-Limiting Nanoscale Perforation of Graphene for Dense Heteroatom Doping. *ACS Applied Materials & Interfaces*, **2015**, 7, 25898-905	9.5	22
160	Surfactant mediated liquid phase exfoliation of graphene. *Nano Convergence*, **2015**, 2, 20	9.2	95
159	Selective and Regenerative Carbon Dioxide Capture by Highly Polarizing Porous Carbon Nitride. *ACS Nano*, **2015**, 9, 9148-57	16.7	73
158	Chemically modified graphene based supercapacitors for flexible and miniature devices. *Electronic Materials Letters*, **2015**, 11, 719-734	2.9	40
157	Synergistic concurrent enhancement of charge generation, dissociation, and transport in organic solar cells with plasmonic metal-carbon nanotube hybrids. *Advanced Materials*, **2015**, 27, 1519-25	24	77
156	Liquid crystallinity driven highly aligned large graphene oxide composites. *Journal of Solid State Chemistry*, **2015**, 224, 115-119	3.3	15

155	Resilient High Catalytic Performance of Platinum Nanocatalysts with Porous Graphene Envelope. *ACS Nano*, **2015**, 9, 5947-57	16.7	44
154	Directed self-assembly of cylinder-forming diblock copolymers on sparse chemical patterns. *Soft Matter*, **2015**, 11, 4496-506	3.6	14
153	High-performance nanopattern triboelectric generator by block copolymer lithography. *Nano Energy*, **2015**, 12, 331-338	17.1	101
152	Atomic layer deposition encapsulated activated carbon electrodes for high voltage stable supercapacitors. *ACS Applied Materials & Interfaces*, **2015**, 7, 1899-906	9.5	24
151	Anomalous rapid defect annihilation in self-assembled nanopatterns by defect melting. *Nano Letters*, **2015**, 15, 1190-6	11.5	31
150	Three-dimensional shape engineered, interfacial gelation of reduced graphene oxide for high rate, large capacity supercapacitors. *Advanced Materials*, **2014**, 26, 615-9, 505	24	349
149	25th anniversary article: Chemically modified/doped carbon nanotubes & graphene for optimized nanostructures & nanodevices. *Advanced Materials*, **2014**, 26, 40-66	24	432
148	Subwavelength imaging in the visible range using a metal coated carbon nanotube forest. *Nanoscale*, **2014**, 6, 5967-70	7.7	4
147	Complementary p- and n-type polymer doping for ambient stable graphene inverter. *ACS Nano*, **2014**, 8, 650-6	16.7	38
146	N-doped graphitic self-encapsulation for high performance silicon anodes in lithium-ion batteries. *Energy and Environmental Science*, **2014**, 7, 621-626	35.4	127
145	Carbon: 25th Anniversary Article: Chemically Modified/Doped Carbon Nanotubes & Graphene for Optimized Nanostructures & Nanodevices (Adv. Mater. 1/2014). *Advanced Materials*, **2014**, 26, 2-2	24	6
144	Nanodomain swelling block copolymer lithography for morphology tunable metal nanopatterning. *Small*, **2014**, 10, 3742-9	11	16
143	Electroless Bimetal Decoration on N-Doped Carbon Nanotubes and Graphene for Oxygen Reduction Reaction Catalysts. *Particle and Particle Systems Characterization*, **2014**, 31, 965-970	3.1	19
142	Random-graft polymer-directed synthesis of inorganic mesostructures with ultrathin frameworks. *Angewandte Chemie - International Edition*, **2014**, 53, 5117-21	16.4	34
141	Semiconducting polymers with nanocrystallites interconnected via boron-doped carbon nanotubes. *Nano Letters*, **2014**, 14, 7100-6	11.5	16
140	Random-Graft Polymer-Directed Synthesis of Inorganic Mesostructures with Ultrathin Frameworks. *Angewandte Chemie*, **2014**, 126, 5217-5221	3.6	6
139	Production of novel FeOOH/reduced graphene oxide hybrids and their performance as oxygen reduction reaction catalysts. *Carbon*, **2014**, 80, 127-134	10.4	35
138	Rheological properties of graphene oxide liquid crystal. *Carbon*, **2014**, 80, 453-461	10.4	91

137	Liquid crystal size selection of large-size graphene oxide for size-dependent N-doping and oxygen reduction catalysis. *ACS Nano*, **2014**, 8, 9073-80	16.7	99
136	High performance organic photovoltaics with plasmonic-coupled metal nanoparticle clusters. *ACS Nano*, **2014**, 8, 10305-12	16.7	74
135	Highly efficient inverted polymer light-emitting diodes using surface modifications of ZnO layer. *Nature Communications*, **2014**, 5, 4840	17.4	115
134	Nitrogen-doped carbon nanotubes and graphene composite structures for energy and catalytic applications. *Chemical Communications*, **2014**, 50, 6818-30	5.8	361
133	Wrinkle-directed self-assembly of block copolymers for aligning of nanowire arrays. *Advanced Materials*, **2014**, 26, 4665-70	24	34
132	Electrical biomolecule detection using nanopatterned silicon via block copolymer lithography. *Small*, **2014**, 10, 337-43	11	42
131	Two-minute assembly of pristine large-area graphene based films. *Nano Letters*, **2014**, 14, 1388-93	11.5	85
130	Molybdenum sulfide/N-doped CNT forest hybrid catalysts for high-performance hydrogen evolution reaction. *Nano Letters*, **2014**, 14, 1228-33	11.5	554
129	Device-oriented graphene nanopatterning by mussel-inspired directed block copolymer self-assembly. *Nanotechnology*, **2014**, 25, 014008	3.4	27
128	Nanowire random networks. *Materials Today*, **2014**, 17, 412-413	21.8	2
127	Direct Growth of Polyaniline Chains from Nitrogen Site of N-Doped Carbon Nanotubes for High Performance Supercapacitor. *Advances in Science and Technology*, **2014**, 93, 164-167	0.1	1
126	Atomic Layer Deposition Assisted Pattern Multiplication of Block Copolymer Lithography for 5 nm Scale Nanopatterning. *Advanced Functional Materials*, **2014**, 24, 4343-4348	15.6	48
125	Amine-based polar solvent treatment for highly efficient inverted polymer solar cells. *Advanced Materials*, **2014**, 26, 494-500	24	139
124	Negative-tone block copolymer lithography by in situ surface chemical modification. *Small*, **2014**, 10, 4207-12	11	4
123	Graphene oxide-assisted production of carbon nitrides using a solution process and their photocatalytic activity. *Carbon*, **2014**, 66, 119-125	10.4	49
122	Directed self-assembly of block copolymers for next generation nanolithography. *Materials Today*, **2013**, 16, 468-476	21.8	212
121	Multicomponent nanopatterns by directed block copolymer self-assembly. *ACS Nano*, **2013**, 7, 8899-907	16.7	86
120	Monodisperse pattern nanoalloying for synergistic intermetallic catalysis. *Nano Letters*, **2013**, 13, 5720-6	11.5	50

119	Work function engineering of ZnO electrodes by using p-type and n-type doped carbon nanotubes. *Nanotechnology*, **2013**, 24, 484013	3.4	10
118	Flexible and transferrable self-assembled nanopatterning on chemically modified graphene. *Advanced Materials*, **2013**, 25, 1331-5	24	84
117	Directed self-assembly of block copolymers for universal nanopatterning. *Soft Matter*, **2013**, 9, 2780	3.6	54
116	Exciton dissociation and charge-transport enhancement in organic solar cells with quantum-dot/N-doped CNT hybrid nanomaterials. *Advanced Materials*, **2013**, 25, 2011-7	24	92
115	Direct growth of polyaniline chains from N-doped sites of carbon nanotubes. *Small*, **2013**, 9, 3829-33	11	42
114	The role of N-doped multiwall carbon nanotubes in achieving highly efficient polymer bulk heterojunction solar cells. *Nano Letters*, **2013**, 13, 2365-9	11.5	175
113	Solar Cells: Exciton Dissociation and Charge-Transport Enhancement in Organic Solar Cells with Quantum-Dot/N-doped CNT Hybrid Nanomaterials (Adv. Mater. 14/2013). *Advanced Materials*, **2013** , 25, 2104-2104	24	3
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