Sang Ouk Kim

List of Publications by Citations

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	Epitaxial self-assembly of block copolymers on lithographically defined nanopatterned substrates. *Nature*, **2003**, 424, 411-4	50.4	1450
279	Directed assembly of block copolymer blends into nonregular device-oriented structures. *Science*, **2005**, 308, 1442-6	33.3	843
278	Molybdenum sulfide/N-doped CNT forest hybrid catalysts for high-performance hydrogen evolution reaction. *Nano Letters*, **2014**, 14, 1228-33	11.5	554
277	Flexible nanocomposite generator made of BaTiO nanoparticles and graphitic carbons. *Advanced Materials*, **2012**, 24, 2999-3004, 2937	24	511
276	Noncovalent functionalization of graphene with end-functional polymers. *Journal of Materials Chemistry*, **2010**, 20, 1907		491
275	Graphene oxide thin films for flexible nonvolatile memory applications. *Nano Letters*, **2010**, 10, 4381-6	11.5	483
274	Graphene oxide liquid crystals. *Angewandte Chemie - International Edition*, **2011**, 50, 3043-7	16.4	453
273	25th anniversary article: Chemically modified/doped carbon nanotubes & graphene for optimized nanostructures & nanodevices. *Advanced Materials*, **2014**, 26, 40-66	24	432
272	Three-dimensional self-assembly of graphene oxide platelets into mechanically flexible macroporous carbon films. *Angewandte Chemie - International Edition*, **2010**, 49, 10084-8	16.4	386
271	Nitrogen-doped carbon nanotubes and graphene composite structures for energy and catalytic applications. *Chemical Communications*, **2014**, 50, 6818-30	5.8	361
270	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
269	Polymer Brushes via Controlled, Surface-Initiated Atom Transfer Radical Polymerization (ATRP) from Graphene Oxide. *Macromolecular Rapid Communications*, **2010**, 31, 281-8	4.8	325
268	Chemical structures of hydrazine-treated graphene oxide and generation of aromatic nitrogen doping. *Nature Communications*, **2012**, 3, 638	17.4	302
267	Theory, synthesis, and oxygen reduction catalysis of Fe-porphyrin-like carbon nanotube. *Physical Review Letters*, **2011**, 106, 175502	7.4	290
266	Versatile carbon hybrid films composed of vertical carbon nanotubes grown on mechanically compliant graphene films. *Advanced Materials*, **2010**, 22, 1247-52	24	282
265	Workfunction-tunable, N-doped reduced graphene transparent electrodes for high-performance polymer light-emitting diodes. *ACS Nano*, **2012**, 6, 159-67	16.7	275
264	Combination of titanium oxide and a conjugated polyelectrolyte for high-performance inverted-type organic optoelectronic devices. *Advanced Materials*, **2011**, 23, 2759-63	24	235

263	Flexible room-temperature NO2 gas sensors based on carbon nanotubes/reduced graphene hybrid films. *Applied Physics Letters*, **2010**, 96, 213105	3.4	235
262	Peptide/graphene hybrid assembly into core/shell nanowires. *Advanced Materials*, **2010**, 22, 2060-4	24	230
261	Selective electron- or hole-transport enhancement in bulk-heterojunction organic solar cells with N- or B-doped carbon nanotubes. *Advanced Materials*, **2011**, 23, 629-33	24	228
260	Vertical ZnO nanowires/graphene hybrids for transparent and flexible field emission. *Journal of Materials Chemistry*, **2011**, 21, 3432-3437		216
259	Directed self-assembly of block copolymers for next generation nanolithography. *Materials Today*, **2013**, 16, 468-476	21.8	212
258	Electromagnetic Shielding of Monolayer MXene Assemblies. *Advanced Materials*, **2020**, 32, e1906769	24	207
257	Tailored Assembly of Carbon Nanotubes and Graphene. *Advanced Functional Materials*, **2011**, 21, 1338-1354	19.6	191
256	Fabrication and electrochemical characterization of TiO2 three-dimensional nanonetwork based on peptide assembly. *ACS Nano*, **2009**, 3, 1085-90	16.7	183
255	Synthesis of Exfoliated PMMA/Na-MMT Nanocomposites via Soap-Free Emulsion Polymerization. *Macromolecules*, **2001**, 34, 8978-8985	5.5	181
254	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
253	Transferred vertically aligned N-doped carbon nanotube arrays: use in dye-sensitized solar cells as counter electrodes. *Chemical Communications*, **2011**, 47, 4264-6	5.8	170
252	Biomineralized N-doped CNT/TiO2 core/shell nanowires for visible light photocatalysis. *ACS Nano*, **2012**, 6, 935-43	16.7	167
251	Mussel-inspired block copolymer lithography for low surface energy materials of teflon, graphene, and gold. *Advanced Materials*, **2011**, 23, 5618-22	24	167
250	Graphene Oxide Liquid Crystals: Discovery, Evolution and Applications. *Advanced Materials*, **2016**, 28, 3045-68	24	167
249	One-Dimensional RuO2/Mn2O3 Hollow Architectures as Efficient Bifunctional Catalysts for Lithium-Oxygen Batteries. *Nano Letters*, **2016**, 16, 2076-83	11.5	164
248	Flexible multilevel resistive memory with controlled charge trap B- and N-doped carbon nanotubes. *Nano Letters*, **2012**, 12, 2217-21	11.5	156
247	Role of water in directing diphenylalanine assembly into nanotubes and nanowires. *Advanced Materials*, **2010**, 22, 583-7	24	156
246	Carbon nanotube-based membranes: Fabrication and application to desalination. *Journal of Industrial and Engineering Chemistry*, **2012**, 18, 1551-1559	6.3	144

245	Amine-based polar solvent treatment for highly efficient inverted polymer solar cells. *Advanced Materials*, **2014**, 26, 494-500	24	139
244	Soft graphoepitaxy of block copolymer assembly with disposable photoresist confinement. *Nano Letters*, **2009**, 9, 2300-5	11.5	134
243	Universal Block Copolymer Lithography for Metals, Semiconductors, Ceramics, and Polymers. *Advanced Materials*, **2008**, 20, 1898-1904	24	130
242	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
241	Flexible Resistive Switching Memory Device Based on Graphene Oxide. *IEEE Electron Device Letters*, **2010**, 31, 1005-1007	4.4	126
240	Highly efficient vertical growth of wall-number-selected, N-doped carbon nanotube arrays. *Nano Letters*, **2009**, 9, 1427-32	11.5	125
239	Surface energy modification by spin-cast, large-area graphene film for block copolymer lithography. *ACS Nano*, **2010**, 4, 5464-70	16.7	122
238	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
237	Highly efficient inverted polymer light-emitting diodes using surface modifications of ZnO layer. *Nature Communications*, **2014**, 5, 4840	17.4	115
236	Nitrogen Dopants in Carbon Nanomaterials: Defects or a New Opportunity?. *Small Methods*, **2017**, 1, 1600014	12.8	114
235	Au-Ag core-shell nanoparticle array by block copolymer lithography for synergistic broadband plasmonic properties. *ACS Nano*, **2015**, 9, 5536-43	16.7	112
234	Flexible field emission of nitrogen-doped carbon nanotubes/reduced graphene hybrid films. *Small*, **2011**, 7, 95-100	11	111
233	Study on Morphology Evolution, Orientational Behavior, and Anisotropic Phase Formation of Highly Filled Polymer-Layered Silicate Nanocomposites. *Macromolecules*, **2003**, 36, 2748-2757	5.5	110
232	Highly tunable refractive index visible-light metasurface from block copolymer self-assembly. *Nature Communications*, **2016**, 7, 12911	17.4	109
231	High-performance nanopattern triboelectric generator by block copolymer lithography. *Nano Energy*, **2015**, 12, 331-338	17.1	101
230	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
229	One-dimensional metal nanowire assembly via block copolymer soft graphoepitaxy. *Nano Letters*, **2010**, 10, 3500-5	11.5	96
228	Surfactant mediated liquid phase exfoliation of graphene. *Nano Convergence*, **2015**, 2, 20	9.2	95

227	Liquid Crystalline Peptide Nanowires. *Advanced Materials*, **2007**, 19, 3924-3927	24	95
226	Laser Crystallization of Organic-Inorganic Hybrid Perovskite Solar Cells. *ACS Nano*, **2016**, 10, 7907-14	16.7	95
225	Dopant-specific unzipping of carbon nanotubes for intact crystalline graphene nanostructures. *Nature Communications*, **2016**, 7, 10364	17.4	94
224	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
223	Rheological properties of graphene oxide liquid crystal. *Carbon*, **2014**, 80, 453-461	10.4	91
222	Morphology Evolution and Anisotropic Phase Formation of the Maleated Polyethylene-Layered Silicate Nanocomposites. *Macromolecules*, **2002**, 35, 5116-5122	5.5	91
221	Laser Writing Block Copolymer Self-Assembly on Graphene Light-Absorbing Layer. *ACS Nano*, **2016**, 10, 3435-42	16.7	89
220	Analysis on switching mechanism of graphene oxide resistive memory device. *Journal of Applied Physics*, **2011**, 110, 044506	2.5	89
219	Characteristics of polyvinylpyrrolidone-layered silicate nanocomposites prepared by attrition ball milling. *Polymer*, **2003**, 44, 681-689	3.9	89
218	Graphene oxide liquid crystals: a frontier 2D soft material for graphene-based functional materials. *Chemical Society Reviews*, **2018**, 47, 6013-6045	58.5	88
217	Ultralarge-area block copolymer lithography enabled by disposable photoresist prepatterning. *ACS Nano*, **2010**, 4, 5181-6	16.7	87
216	Multicomponent nanopatterns by directed block copolymer self-assembly. *ACS Nano*, **2013**, 7, 8899-907	16.7	86
215	Two-minute assembly of pristine large-area graphene based films. *Nano Letters*, **2014**, 14, 1388-93	11.5	85
214	Flexible and transferrable self-assembled nanopatterning on chemically modified graphene. *Advanced Materials*, **2013**, 25, 1331-5	24	84
213	Simple ZnO Nanowires Patterned Growth by Microcontact Printing for High Performance Field Emission Device. *Journal of Physical Chemistry C*, **2011**, 115, 11435-11441	3.8	84
212	Three-Dimensional Self-Assembly of Graphene Oxide Platelets into Mechanically Flexible Macroporous Carbon Films. *Angewandte Chemie*, **2010**, 122, 10282-10286	3.6	84
211	Mechanical and rheological properties of the maleated polypropylene-layered silicate nanocomposites with different morphology. *Journal of Applied Polymer Science*, **2003**, 88, 1526-1535	2.9	84
210	A plasmonic biosensor array by block copolymer lithography. *Journal of Materials Chemistry*, **2010**, 20, 7241		82

209	Surface modification of metal oxide using ionic liquid molecules in hybrid organic□inorganic optoelectronic devices. *Journal of Materials Chemistry*, **2011**, 21, 2051		80
208	A ZnO/N-doped carbon nanotube nanocomposite charge transport layer for high performance optoelectronics. *Journal of Materials Chemistry*, **2012**, 22, 12695		78
207	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
206	Microtopography-Guided Conductive Patterns of Liquid-Driven Graphene Nanoplatelet Networks for Stretchable and Skin-Conformal Sensor Array. *Advanced Materials*, **2017**, 29, 1606453	24	77
205	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
204	Efficient hybrid organic-inorganic light emitting diodes with self-assembled dipole molecule deposited metal oxides. *Applied Physics Letters*, **2010**, 96, 243306	3.4	77
203	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
202	High performance organic photovoltaics with plasmonic-coupled metal nanoparticle clusters. *ACS Nano*, **2014**, 8, 10305-12	16.7	74
201	Selective and Regenerative Carbon Dioxide Capture by Highly Polarizing Porous Carbon Nitride. *ACS Nano*, **2015**, 9, 9148-57	16.7	73
200	Hierarchically Organized Carbon Nanotube Arrays from Self-Assembled Block Copolymer Nanotemplates. *Advanced Materials*, **2008**, 20, 2480-2485	24	73
199	Hierarchical Self-Assembly of Block Copolymers for Lithography-Free Nanopatterning. *Advanced Materials*, **2008**, 20, 2303-2307	24	72
198	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
197	Highly entangled carbon nanotube scaffolds by self-organized aqueous droplets. *Soft Matter*, **2009**, 5, 2343-2346	3.6	68
196	Hierarchically Ordered Polymer Films by Templated Organization of Aqueous Droplets. *Advanced Functional Materials*, **2007**, 17, 2315-2320	15.6	67
195	Flash Light Millisecond Self-Assembly of High □Block Copolymers for Wafer-Scale Sub-10 nm Nanopatterning. *Advanced Materials*, **2017**, 29, 1700595	24	66
194	Direct Observation of a Carbon Filament in Water-Resistant Organic Memory. *ACS Nano*, **2015**, 9, 7306-13	16.7	65
193	Sub-Nanometer Level Size Tuning of a Monodisperse Nanoparticle Array Via Block Copolymer Lithography. *Advanced Functional Materials*, **2011**, 21, 250-254	15.6	65
192	Novel Complex Nanostructure from Directed Assembly of Block Copolymers on Incommensurate Surface Patterns. *Advanced Materials*, **2007**, 19, 3271-3275	24	63

191	Subnanometer Cobalt-Hydroxide-Anchored N-Doped Carbon Nanotube Forest for Bifunctional Oxygen Catalyst. *ACS Applied Materials & Interfaces*, **2016**, 8, 1571-7	9.5	62
190	Facile Fabrication and Field Emission of Metal-Particle-Decorated Vertical N-Doped Carbon Nanotube/Graphene Hybrid Films. *Journal of Physical Chemistry C*, **2010**, 114, 21184-21189	3.8	60
189	Block copolymer multiple patterning integrated with conventional ArF lithography. *Soft Matter*, **2010**, 6, 120-125	3.6	60
188	Defect Structure in Thin Films of a Lamellar Block Copolymer Self-Assembled on Neutral Homogeneous and Chemically Nanopatterned Surfaces. *Macromolecules*, **2006**, 39, 5466-5470	5.5	60
187	Spontaneous Lamellar Alignment in Thickness-Modulated Block Copolymer Films. *Advanced Functional Materials*, **2009**, 19, 2584-2591	15.6	59
186	Unravelling inherent electrocatalysis of mixed-conducting oxide activated by metal nanoparticle for fuel cell electrodes. *Nature Nanotechnology*, **2019**, 14, 245-251	28.7	59
185	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
184	Bionanosphere lithography via hierarchical peptide self-assembly of aromatic triphenylalanine. *Small*, **2010**, 6, 945-51	11	57
183	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
182	DNA origami nanopatterning on chemically modified graphene. *Angewandte Chemie - International Edition*, **2012**, 51, 912-5	16.4	55
181	Hybrid Perovskites: Effective Crystal Growth for Optoelectronic Applications. *Advanced Energy Materials*, **2017**, 7, 1602596	21.8	54
180	Directed self-assembly of block copolymers for universal nanopatterning. *Soft Matter*, **2013**, 9, 2780	3.6	54
179	Single-layer graphene-wrapped Li4Ti5O12 anode with superior lithium storage capability. *Carbon*, **2017**, 114, 275-283	10.4	52
178	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
177	Graphene-based materials and structures for energy harvesting with fluids □A review. *Materials Today*, **2018**, 21, 1019-1041	21.8	50
176	Monodisperse pattern nanoalloying for synergistic intermetallic catalysis. *Nano Letters*, **2013**, 13, 5720-6	11.5	50
175	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
174	Graphene oxide-assisted production of carbon nitrides using a solution process and their photocatalytic activity. *Carbon*, **2014**, 66, 119-125	10.4	49

173	Highly entangled hollow TiO2nanoribbons templating diphenylalanine assembly. *Journal of Materials Chemistry*, **2009**, 19, 3512		49
172	Surface Order in Thin Films of Self-Assembled Columnar Liquid Crystals. *Macromolecules*, **2002**, 35, 3717-3721	5.5	49
171	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
170	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
169	Divalent Fe Atom Coordination in Two-Dimensional Microporous Graphitic Carbon Nitride. *ACS Applied Materials & Interfaces*, **2016**, 8, 25438-43	9.5	46
168	3D Tailored Crumpling of Block-Copolymer Lithography on Chemically Modified Graphene. *Advanced Materials*, **2016**, 28, 1591-6	24	46
167	Nanoscale Assembly of 2D Materials for Energy and Environmental Applications. *Advanced Materials*, **2020**, 32, e1907006	24	45
166	Resilient High Catalytic Performance of Platinum Nanocatalysts with Porous Graphene Envelope. *ACS Nano*, **2015**, 9, 5947-57	16.7	44
165	Visible-light active nanohybrid TiO2/carbon photocatalysts with programmed morphology by direct carbonization of block copolymer templates. *Green Chemistry*, **2011**, 13, 3397	10	44
164	Electric Actuation of Nanostructured Thermoplastic Elastomer Gels with Ultralarge Electrostriction Coefficients. *Advanced Functional Materials*, **2011**, 21, 3242-3249	15.6	44
163	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
162	Electrical biomolecule detection using nanopatterned silicon via block copolymer lithography. *Small*, **2014**, 10, 337-43	11	42
161	Direct growth of polyaniline chains from N-doped sites of carbon nanotubes. *Small*, **2013**, 9, 3829-33	11	42
160	One-Dimensional Nanoassembly of Block Copolymers Tailored by Chemically Patterned Surfaces. *Macromolecules*, **2009**, 42, 1189-1193	5.5	41
159	Chemically modified graphene based supercapacitors for flexible and miniature devices. *Electronic Materials Letters*, **2015**, 11, 719-734	2.9	40
158	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
157	Graphene Oxide Liquid Crystals. *Angewandte Chemie*, **2011**, 123, 3099-3103	3.6	39
156	Complementary p- and n-type polymer doping for ambient stable graphene inverter. *ACS Nano*, **2014**, 8, 650-6	16.7	38

155	Phosphorene for energy and catalytic applications: Filling the gap between graphene and 2D metal chalcogenides. *2D Materials*, **2017**, 4, 042006	5.9	38
154	Chemical modification of carbon nanotubes and preparation of polystyrene/carbon nanotubes composites. *Macromolecular Research*, **2004**, 12, 384-390	1.9	38
153	High-Energy Efficiency Membraneless Flowless Zn-Br Battery: Utilizing the Electrochemical-Chemical Growth of Polybromides. *Advanced Materials*, **2019**, 31, e1904524	24	37
152	Supramolecular Nanotubules as a Catalytic Regulator for Palladium Cations: Applications in Selective Catalysis. *Angewandte Chemie - International Edition*, **2017**, 56, 11511-11514	16.4	36
151	Localized surface plasmon resonance coupling in Au nanoparticles/phosphorus dendrimer multilayer thin films fabricated by layer-by-layer self-assembly method. *Journal of Materials Chemistry*, **2009**, 19, 2006		36
150	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
149	High Activity Hydrogen Evolution Catalysis by Uniquely Designed Amorphous/Metal Interface of Core–Shell Phosphosulfide/N-Doped CNTs. *Advanced Energy Materials*, **2018**, 8, 1702806	21.8	35
148	Production of novel FeOOH/reduced graphene oxide hybrids and their performance as oxygen reduction reaction catalysts. *Carbon*, **2014**, 80, 127-134	10.4	35
147	Graphoepitaxy of block-copolymer self-assembly integrated with single-step ZnO nanoimprinting. *Small*, **2012**, 8, 1563-9	11	35
146	Random-graft polymer-directed synthesis of inorganic mesostructures with ultrathin frameworks. *Angewandte Chemie - International Edition*, **2014**, 53, 5117-21	16.4	34
145	Wrinkle-directed self-assembly of block copolymers for aligning of nanowire arrays. *Advanced Materials*, **2014**, 26, 4665-70	24	34
144	High performance polymer light-emitting diodes with N-type metal oxide/conjugated polyelectrolyte hybrid charge transport layers. *Applied Physics Letters*, **2011**, 99, 163305	3.4	34
143	Fabrication of Luminescent Nanoarchitectures by Electron Irradiation of Polystyrene. *Advanced Materials*, **2008**, 20, 2094-2098	24	34
142	Macroporous polymer thin film prepared from temporarily stabilized water-in-oil emulsion. *Journal of Physical Chemistry B*, **2006**, 110, 13959-64	3.4	33
141	Peptide-templating dye-sensitized solar cells. *Nanotechnology*, **2010**, 21, 185601	3.4	32
140	Anomalous rapid defect annihilation in self-assembled nanopatterns by defect melting. *Nano Letters*, **2015**, 15, 1190-6	11.5	31
139	DNA Origami Nanopatterning on Chemically Modified Graphene. *Angewandte Chemie*, **2012**, 124, 936-939	3.6	31
138	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

137	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
136	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
135	Vertical Single-Walled Carbon Nanotube Arrays via Block Copolymer Lithography. *Chemistry of Materials*, **2009**, 21, 1368-1374	9.6	30
134	Rheological investigation on the anisotropic phase of cellulose/NMNO/H2O solution system. *Polymer*, **1999**, 40, 6443-6450	3.9	30
133	Large-Area Buckled MoS2 Films on the Graphene Substrate. *ACS Applied Materials & Interfaces*, **2016**, 8, 13512-9	9.5	30
132	Self-organized grafting of carbon nanotubes by end-functionalized polymers. *Macromolecular Research*, **2008**, 16, 261-266	1.9	29
131	Ultralarge-area block copolymer lithographyvia soft graphoepitaxy. *Journal of Materials Chemistry*, **2011**, 21, 5856		28
130	Biomimetic mineralization of vertical N-doped carbon nanotubes. *Chemical Communications*, **2011**, 47, 535-7	5.8	28
129	Hierarchical assembly of diphenylalanine into dendritic nanoarchitectures. *Colloids and Surfaces B: Biointerfaces*, **2010**, 79, 440-5	6	28
128	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
127	Device-oriented graphene nanopatterning by mussel-inspired directed block copolymer self-assembly. *Nanotechnology*, **2014**, 25, 014008	3.4	27
126	Joule heating-induced sp2-restoration in graphene fibers. *Carbon*, **2019**, 142, 230-237	10.4	27
125	Smart Nanostructured Materials based on Self-Assembly of Block Copolymers. *Advanced Functional Materials*, **2020**, 30, 1902049	15.6	27
124	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
123	Elastic properties of hexagonal columnar mesophase self-organized from amphiphilic supramolecular columns. *Applied Physics Letters*, **2002**, 80, 395-397	3.4	25
122	Amorphous Molybdenum Sulfide Deposited Graphene Liquid Crystalline Fiber for Hydrogen Evolution Reaction Catalysis. *Particle and Particle Systems Characterization*, **2017**, 34, 1600375	3.1	24
121	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
120	Atomic layer deposition encapsulated activated carbon electrodes for high voltage stable supercapacitors. *ACS Applied Materials & Interfaces*, **2015**, 7, 1899-906	9.5	24

119	Large-area, highly oriented lamellar block copolymer nanopatterning directed by graphoepitaxially assembled cylinder nanopatterns. *Journal of Materials Chemistry*, **2012**, 22, 6307		24
118	Self-Size-Limiting Nanoscale Perforation of Graphene for Dense Heteroatom Doping. *ACS Applied Materials & Interfaces*, **2015**, 7, 25898-905	9.5	22
117	Protein nanoarrays on a highly-oriented lamellar surface. *Chemical Communications*, **2010**, 46, 1911-3	5.8	22
116	2D Metal Chalcogenide Nanopatterns by Block Copolymer Lithography. *Advanced Functional Materials*, **2018**, 28, 1804508	15.6	22
115	Reversible Alloying of Phosphorene with Potassium and Its Stabilization Using Reduced Graphene Oxide Buffer Layers. *ACS Nano*, **2019**, 13, 14094-14106	16.7	21
114	Complex High-Aspect-Ratio Metal Nanostructures by Secondary Sputtering Combined with Block Copolymer Self-Assembly. *Advanced Materials*, **2016**, 28, 8439-8445	24	21
113	Wide concentration liquid crystallinity of graphene oxide aqueous suspensions with interacting polymers. *Materials Horizons*, **2017**, 4, 1157-1164	14.4	20
112	Flash-induced ultrafast recrystallization of perovskite for flexible light-emitting diodes. *Nano Energy*, **2019**, 61, 236-244	17.1	20
111	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
110	Phase Behavior, Crystallization Kinetics, and Morphology of Monotropic Liquid Crystalline Poly(esterimide)s with a Decamethylene Spacer. *Macromolecules*, **2001**, 34, 8961-8967	5.5	20
109	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
108	Growth Kinetics of Wall-Number Controlled Carbon Nanotube Arrays. *Journal of Physical Chemistry C*, **2010**, 114, 3454-3458	3.8	19
107	Polymer/carbon nanotube nanocomposites via noncovalent grafting with end-functionalized polymers. *Journal of Applied Polymer Science*, **2008**, 110, 2345-2351	2.9	19
106	Self-Assembly of Complex Multimetal Nanostructures from Perforated Lamellar Block Copolymer Thin Films. *ACS Applied Materials & Interfaces*, **2017**, 9, 15727-15732	9.5	18
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104	2D Materials Decorated with Ultrathin and Porous Graphene Oxide for High Stability and Selective Surface Activity. *Advanced Materials*, **2020**, 32, e2002723	24	18
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