Sang Ouk Kim

List of Publications by Year
in descending order

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290 papers	24,261 citations	5558 82 h-index	8370 147 g-index
310 all docs	310 docs citations	310 times ranked	28492 citing authors

#	Article	IF	Citations
1	Largeâ€Area Uniform 1â€nmâ€Level Amorphous Carbon Layers from 3D Conformal Polymer Brushes. A â€œNextâ€Generationâ€•Cu Diffusion Barrier?. Advanced Materials, 2022, 34, e2110454.	11.1	5
2	Block Copolymer Nanopatterning for Nonsemiconductor Device Applications. ACS Applied Materials & Interfaces, 2022, 14, 12011-12037.	4.0	36
3	Molecular-Level Lubrication Effect of 0D Nanodiamonds for Highly Bendable Graphene Liquid Crystalline Fibers. ACS Applied Materials & Interfaces, 2022, 14, 13601-13610.	4.0	10
4	Largeâ€Area Uniform 1â€nmâ€Level Amorphous Carbon Layers from 3D Conformal Polymer Brushes. A â€œNextâ€Generationâ€•Cu Diffusion Barrier? (Adv. Mater. 15/2022). Advanced Materials, 2022, 34, .	11.1	0
5	Characteristic dual-domain composite structure of reduced graphene oxide and its application to higher specific capacitance. Chemical Engineering Journal, 2022, 446, 137390.	6.6	13
6	A 2D Ultrathin Nanopatterned Interlayer to Suppress Lithium Dendrite Growth in Highâ€Energy Lithiumâ€Metal Anodes. Advanced Materials, 2022, 34, .	11.1	18
7	Wide-Range Size Fractionation of Graphene Oxide by Flow Field-Flow Fractionation. ACS Nano, 2022, 16, 9172-9182.	7.3	3
8	Tailored growth of graphene oxide liquid crystals with controlled polymer crystallization in GO-polymer composites. Nanoscale, 2021, 13, 2720-2727.	2.8	8
9	Synthesis of carboxylic acid-functionalized polymethacrylate-b-polystyrene as an Ag ion-loadable block copolymer thin film template. Polymer, 2021, 217, 123462.	1.8	3
10	Discovery of Single-Atom Catalyst: Customized Heteroelement Dopants on Graphene. Accounts of Materials Research, 2021, 2, 394-406.	5.9	19
11	Hetero-Dimensional 2D Ti₃C₂T_x MXene and 1D Graphene Nanoribbon Hybrids for Machine Learning-Assisted Pressure Sensors. ACS Nano, 2021, 15, 10347-10356.	7.3	57
12	Self-Assembled Nanoâ€“Lotus Pod Metasurface for Light Trapping. ACS Photonics, 2021, 8, 1616-1622.	3.2	8
13	Multidimensional Ti₃C₂T_xMXene ArchitecturesviaInterfacial Electrochemical Self-Assembly. ACS Nano, 2021, 15, 10058-10066.	7.3	46
14	Carbon Nanofibers as Potential Catalyst Support for Fuel Cell Cathodes: A Review. Energy & Fuels, 2021, 35, 11761-11799.	2.5	37
15	Wafer-Scale Unidirectional Alignment of Supramolecular Columns on Faceted Surfaces. ACS Nano, 2021, 15, 11762-11769.	7.3	1
16	CNTâ€“rGO Hydrogel-Integrated Fabric Composite Synthesized via an Interfacial Gelation Process for Wearable Supercapacitor Electrodes. ACS Omega, 2021, 6, 19578-19585.	1.6	13
17	Universal Alignment of Graphene Oxide in Suspensions and Fibers. ACS Nano, 2021, 15, 13453-13462.	7.3	15
18	N-Dopant-Mediated Growth of Metal Oxide Nanoparticles on Carbon Nanotubes. Nanomaterials, 2021, 11, 1882.	1.9	1

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19	Synthetic multiscale design of nanostructured Ni single atom catalyst for superior CO2 electroreduction. Chemical Engineering Journal, 2021, 426, 131063.	6.6	43
20	Alloying of Alkali Metals with Tellurene. Advanced Energy Materials, 2021, 11, 2003248.	10.2	11
21	Spectral Instability of Layered Mixed Halide Perovskites Results from Anion Phase Redistribution and Selective Hole Injection. ACS Nano, 2021, 15, 1486-1496.	7.3	18
22	Monodisperse Carbon Nitride Nanosheets as Multifunctional Additives for Efficient and Durable Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 61215-61226.	4.0	9
23	Smart Nanostructured Materials based on Selfâ€Assembly of Block Copolymers. Advanced Functional Materials, 2020, 30, 1902049.	7.8	56
24	Ultra-large area graphene hybrid hydrogel for customized performance supercapacitors: High volumetric, areal energy density and potential wearability. Electrochimica Acta, 2020, 332, 135492.	2.6	25
25	Longitudinal unzipping of 2D transition metal dichalcogenides. Nature Communications, 2020, 11, 5032.	5.8	18
26	2D graphene oxide liquid crystal for real-world applications: Energy, environment, and antimicrobial. APL Materials, 2020, 8, .	2.2	24
27	2D Materials Decorated with Ultrathin and Porous Graphene Oxide for High Stability and Selective Surface Activity. Advanced Materials, 2020, 32, e2002723.	11.1	33
28	Largeâ€Area Alignment of Supramolecular Columns by Photothermal Laser Writing. Advanced Materials, 2020, 32, 2002620.	11.1	7
29	Mussel Inspired Highly Aligned Ti₃C₂T_x MXene Film with Synergistic Enhancement of Mechanical Strength and Ambient Stability. ACS Nano, 2020, 14, 11722-11732.	7.3	212
30	Multidisciplinary Materials Research in KAIST Over the Last 50 Years. Advanced Materials, 2020, 32, e2000696.	11.1	1
31	Tungsten nitride-coated graphene fibers for high-performance wearable supercapacitors. Nanoscale, 2020, 12, 20239-20249.	2.8	35
32	Deep-Learning-Based Deconvolution of Mechanical Stimuli with Ti₃C₂T_x MXene Electromagnetic Shield Architecture via Dual-Mode Wireless Signal Variation Mechanism. ACS Nano, 2020, 14, 11962-11972.	7.3	25
33	Highly Aligned Carbon Nanowire Array by E-Field Directed Assembly of PAN-Containing Block Copolymers. ACS Applied Materials & Interfaces, 2020, 12, 58113-58121.	4.0	6
34	Self-Planarization of High-Performance Graphene Liquid Crystalline Fibers by Hydration. ACS Central Science, 2020, 6, 1105-1114.	5.3	16
35	Air-Stable Perovskite Nanostructures with Dimensional Tunability by Polymerizable Structure-Directing Ligands. ACS Applied Materials & Interfaces, 2020, 12, 31770-31775.	4.0	4
36	Nanoscale Assembly of 2D Materials for Energy and Environmental Applications. Advanced Materials, 2020, 32, e1907006.	11.1	106

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37	N2-dopant of graphene with electrochemically switchable bifunctional ORR/OER catalysis for Zn-air battery. Energy Storage Materials, 2020, 32, 517-524.	9.5	80
38	Electromagnetic Interference Shielding: Electromagnetic Shielding of Monolayer MXene Assemblies (Adv. Mater. 9/2020). Advanced Materials, 2020, 32, 2070064.	11.1	16
39	Electromagnetic Shielding of Monolayer MXene Assemblies. Advanced Materials, 2020, 32, e1906769.	11.1	410
40	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.	9.5	27
41	Effective and sustainable Cs⁺ remediation via exchangeable sodium-ion sites in graphene oxide fibers. Journal of Materials Chemistry A, 2019, 7, 17754-17760.	5.2	9
42	Janus Graphene Liquid Crystalline Fiber with Tunable Properties Enabled by Ultrafast Flash Reduction. Small, 2019, 15, e1901529.	5.2	27
43	Conformal 3D Nanopatterning by Block Copolymer Lithography with Vapor-Phase Deposited Neutral Adlayer. ACS Nano, 2019, 13, 13092-13099.	7.3	15
44	Highâ€Energy Efficiency Membraneless Flowless Znâ€“Br Battery: Utilizing the Electrochemicalâ€“Chemical Growth of Polybromides. Advanced Materials, 2019, 31, e1904524.	11.1	76
45	Reversible Alloying of Phosphorene with Potassium and Its Stabilization Using Reduced Graphene Oxide Buffer Layers. ACS Nano, 2019, 13, 14094-14106.	7.3	36
46	Intact Crystalline Semiconducting Graphene Nanoribbons from Unzipping Nitrogen-Doped Carbon Nanotubes. ACS Applied Materials & Interfaces, 2019, 11, 38006-38015.	4.0	13
47	Nitrogenâ€Dopantâ€Induced Organicâ€“Inorganic Hybrid Perovskite Crystal Growth on Carbon Nanotubes. Advanced Functional Materials, 2019, 29, 1902489.	7.8	18
48	Cobalt Based Nanoparticles Embedded Reduced Graphene Oxide Aerogel for Hydrogen Evolution Electrocatalyst. Particle and Particle Systems Characterization, 2019, 36, 1900090.	1.2	11
49	A perspective on R&D status of energy storage systems in South Korea. Energy Storage Materials, 2019, 23, 154-158.	9.5	9
50	Nanopatterns with a Square Symmetry from an Orthogonal Lamellar Assembly of Block Copolymers. ACS Applied Materials & Interfaces, 2019, 11, 20265-20271.	4.0	13
51	Flash-induced ultrafast recrystallization of perovskite for flexible light-emitting diodes. Nano Energy, 2019, 61, 236-244.	8.2	34
52	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.	3.2	54
53	Spontaneous Nanobelt Formation by Selfâ€Assembly of Î²â€Benzyl GABA. Chemistry - an Asian Journal, 2019, 14, 1945-1948.	1.7	1
54	Directed Nanoscale Self-Assembly of Natural Photosystems on Nitrogen-Doped Carbon Nanotubes for Solar-Energy Harvesting. ACS Applied Bio Materials, 2019, 2, 2109-2115.	2.3	8

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55	Utilizing Hidden Surfaces: End-Cap Removal of Carbon Nanotubes for Improved Lithium Storage. Journal of Physical Chemistry C, 2019, 123, 6220-6228.	1.5	4
56	Unravelling inherent electrocatalysis of mixed-conducting oxide activated by metal nanoparticle for fuel cell electrodes. Nature Nanotechnology, 2019, 14, 245-251.	15.6	84
57	Fe-N4 complex embedded free-standing carbon fabric catalysts for higher performance ORR both in alkaline & acidic media. Nano Energy, 2019, 56, 524-530.	8.2	88
58	Joule heating-induced sp2-restoration in graphene fibers. Carbon, 2019, 142, 230-237.	5.4	46
59	Photoexcitation-Controllable Magnetization in Magneticâ€“Semiconducting Nanohybrid Containing Î³-Fe₂O₃â€“Graphene (0Dâ€“2D) van der Waals Heterostructure Based on Steady-State Pumpâ€“Probe Light Scattering Measurement in Magnetic Field. Journal of Physical Chemistry C, 2018, 122, 6912-6917.	1.5	3
60	Laser-Directed Self-Assembly of Highly Aligned Lamellar and Cylindrical Block Copolymer Nanostructures: Experiment and Simulation. Macromolecules, 2018, 51, 1418-1426.	2.2	21
61	High Activity Hydrogen Evolution Catalysis by Uniquely Designed Amorphous/Metal Interface of Coreâ€“shell Phosphosulfide/Nâ€Doped CNTs. Advanced Energy Materials, 2018, 8, 1702806.	10.2	39
62	Perovskite Light-Emitting Diodes via Laser Crystallization: Systematic Investigation on Grain Size Effects for Device Performance. ACS Applied Materials & Interfaces, 2018, 10, 2490-2495.	4.0	34
63	The Effect of Thickness and Chemical Reduction of Graphene Oxide on Nanoscale Friction. Journal of Physical Chemistry B, 2018, 122, 543-547.	1.2	27
64	Bimodal phase separated block copolymer/homopolymer blends self-assembly for hierarchical porous metal nanomesh electrodes. Nanoscale, 2018, 10, 100-108.	2.8	17
65	Tailored Colloidal Stability and Rheological Properties of Graphene Oxide Liquid Crystals with Polymer-Induced Depletion Attractions. ACS Nano, 2018, 12, 11399-11406.	7.3	29
66	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.	4.0	59
67	2D Nanopatterning: 2D Metal Chalcogenide Nanopatterns by Block Copolymer Lithography (Adv. Funct.) Tj ETQq1 1 0.784314 rgBT /Ov	7.8	5
68	Graphene Fibers: Musselâ€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.	11.1	4
69	Ultrastable Grapheneâ€Encapsulated 3 nm Nanoparticles by In Situ Chemical Vapor Deposition. Advanced Materials, 2018, 30, e1805023.	11.1	24
70	2D Metal Chalcogenide Nanopatterns by Block Copolymer Lithography. Advanced Functional Materials, 2018, 28, 1804508.	7.8	41
71	Enhancing the Performance of Surface Plasmon Resonance Biosensor via Modulation of Electron Density at the Grapheneâ€“Gold Interface. Advanced Materials Interfaces, 2018, 5, 1800433.	1.9	23
72	Graphene-based materials and structures for energy harvesting with fluids â€“ A review. Materials Today, 2018, 21, 1019-1041.	8.3	81

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73	Graphene oxide liquid crystals: a frontier 2D soft material for graphene-based functional materials. Chemical Society Reviews, 2018, 47, 6013-6045.	18.7	121
74	Musselâ€Inspired Defect Engineering of Graphene Liquid Crystalline Fibers for Synergistic Enhancement of Mechanical Strength and Electrical Conductivity. Advanced Materials, 2018, 30, e1803267.	11.1	67
75	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.	10.8	65
76	Controlled Segmentation of Metal Nanowire Array by Block Copolymer Lithography and Reversible Ion Loading. Small, 2017, 13, 1603939.	5.2	19
77	Amorphous Molybdenum Sulfide Deposited Graphene Liquid Crystalline Fiber for Hydrogen Evolution Reaction Catalysis. Particle and Particle Systems Characterization, 2017, 34, 1600375.	1.2	31
78	Self-Assembly of Complex Multimetal Nanostructures from Perforated Lamellar Block Copolymer Thin Films. ACS Applied Materials & Interfaces, 2017, 9, 15727-15732.	4.0	22
79	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.	5.4	70
80	Cobaltâ€Based Active Species Molecularly Immobilized on Carbon Nanotubes for the Oxygen Reduction Reaction. ChemSusChem, 2017, 10, 3473-3481.	3.6	20
81	Flash Light Millisecond Selfâ€Assembly of High Ï‡ Block Copolymers for Waferâ€Scale Subâ€10 nm Nanopatterning. Advanced Materials, 2017, 29, 1700595.	11.1	78
82	Alkylated sulfonated poly(arylene sulfone)s for proton exchange membranes. Macromolecular Research, 2017, 25, 400-407.	1.0	5
83	Hybrid Perovskites: Effective Crystal Growth for Optoelectronic Applications. Advanced Energy Materials, 2017, 7, 1602596.	10.2	62
84	Graphene: Microtopographyâ€Guided Conductive Patterns of Liquidâ€Driven Graphene Nanoplatelet Networks for Stretchable and Skinâ€Conformal Sensor Array (Adv. Mater. 21/2017). Advanced Materials, 2017, 29, .	11.1	0
85	Selective protein transport through ultra-thin suspended reduced graphene oxide nanopores. Nanoscale, 2017, 9, 13457-13464.	2.8	17
86	Microtopographyâ€Guided Conductive Patterns of Liquidâ€Driven Graphene Nanoplatelet Networks for Stretchable and Skinâ€Conformal Sensor Array. Advanced Materials, 2017, 29, 1606453.	11.1	101
87	Nitrogen Dopants in Carbon Nanomaterials: Defects or a New Opportunity?. Small Methods, 2017, 1, 1600014.	4.6	179
88	Spontaneous linker-free binding of polyoxometalates on nitrogen-doped carbon nanotubes for efficient water oxidation. Journal of Materials Chemistry A, 2017, 5, 1941-1947.	5.2	46
89	Single-layer graphene-wrapped Li4Ti5O12 anode with superior lithium storage capability. Carbon, 2017, 114, 275-283.	5.4	59
90	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.	4.0	43

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91	Wide concentration liquid crystallinity of graphene oxide aqueous suspensions with interacting polymers. Materials Horizons, 2017, 4, 1157-1164.	6.4	27
92	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.	1.7	29
93	Graphene Oxide Liquid Crystals Special Issue, Editorial. Particle and Particle Systems Characterization, 2017, 34, 1700261.	1.2	5
94	Phosphorene for energy and catalytic applicationâ€"filling the gap between graphene and 2D metal chalcogenides. 2D Materials, 2017, 4, 042006.	2.0	46
95	Supramolecular Nanotubules as a Catalytic Regulator for Palladium Cations: Applications in Selective Catalysis. Angewandte Chemie - International Edition, 2017, 56, 11511-11514.	7.2	47
96	UV-crosslinked poly(arylene ether sulfone) â€“ LAPONITEÂ® nanocomposites for proton exchange membranes. RSC Advances, 2017, 7, 28358-28365.	1.7	5
97	Supramolecular Nanotubules as a Catalytic Regulator for Palladium Cations: Applications in Selective Catalysis. Angewandte Chemie, 2017, 129, 11669-11672.	1.6	6
98	Single-step self-assembly of multilayer graphene based dielectric nanostructures. FlatChem, 2017, 4, 61-67.	2.8	8
99	Interface-Confined High Crystalline Growth of Semiconducting Polymers at Graphene Fibers for High-Performance Wearable Supercapacitors. ACS Nano, 2017, 11, 9424-9434.	7.3	94
100	Omnidirectional Deformable Energy Textile for Human Joint Movement Compatible Energy Storage. ACS Applied Materials & Interfaces, 2017, 9, 41363-41370.	4.0	16
101	Carbon nanotube-grafted inverse opal nanostructures. Optical Materials Express, 2017, 7, 2242.	1.6	2
102	Twoâ€Terminal Graphene Oxide Devices for Electrical Modulation of Broadband Terahertz Waves. Advanced Optical Materials, 2016, 4, 548-554.	3.6	2
103	Liquid Crystals: Graphene Oxide Liquid Crystals: Discovery, Evolution and Applications (Adv. Mater.) Tj ETQq1 1 0.784314 rgBT /Overlock	11.1	3
104	Graphene Oxide Liquid Crystals: Discovery, Evolution and Applications. Advanced Materials, 2016, 28, 3045-3068.	11.1	211
105	Lowâ€Temperature Chemical Vapor Deposition Synthesis of Ptâ€“Co Alloyed Nanoparticles with Enhanced Oxygen Reduction Reaction Catalysis. Advanced Materials, 2016, 28, 7115-7122.	11.1	156
106	Laser Crystallization of Organicâ€“Inorganic Hybrid Perovskite Solar Cells. ACS Nano, 2016, 10, 7907-7914.	7.3	123
107	Effective control of crystal grain size in CH₃NH₃PbI₃perovskite solar cells with a pseudohalide Pb(SCN)₂additive. CrystEngComm, 2016, 18, 6090-6095.	1.3	87
108	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.	9.5	29

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109	Large-Area Buckled MoS₂ Films on the Graphene Substrate. ACS Applied Materials & Interfaces, 2016, 8, 13512-13519.	4.0	38
110	Complex Highâ€Aspectâ€Ratio Metal Nanostructures by Secondary Sputtering Combined with Block Copolymer Selfâ€Assembly. Advanced Materials, 2016, 28, 8439-8445.	11.1	26
111	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, 22253-22260.	4.0	57
112	Enhancing Organic Solar Cells with Plasmonic Nanomaterials. ChemNanoMat, 2016, 2, 19-27.	1.5	11
113	Divalent Fe Atom Coordination in Two-Dimensional Microporous Graphitic Carbon Nitride. ACS Applied Materials & Interfaces, 2016, 8, 25438-25443.	4.0	70
114	Alloyed Nanoparticles: Low-Temperature Chemical Vapor Deposition Synthesis of Pt-Co Alloyed Nanoparticles with Enhanced Oxygen Reduction Reaction Catalysis (Adv. Mater. 33/2016). Advanced Materials, 2016, 28, 7292-7292.	11.1	1
115	Application of N-Doped Three-Dimensional Reduced Graphene Oxide Aerogel to Thin Film Loudspeaker. ACS Applied Materials & Interfaces, 2016, 8, 22295-22300.	4.0	33
116	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.	1.7	11
117	Hierarchical Directed Selfâ€Assembly of Diblock Copolymers for Modified Pattern Symmetry. Advanced Functional Materials, 2016, 26, 6462-6470.	7.8	16
118	Hierarchical spatial heterogeneity in liquid crystals composed of graphene oxides. Physical Chemistry Chemical Physics, 2016, 18, 22399-22406.	1.3	16
119	Highly tunable refractive index visible-light metasurface from block copolymer self-assembly. Nature Communications, 2016, 7, 12911.	5.8	143
120	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.	1.0	13
121	3D Tailored Crumpling of Blockâ€Copolymer Lithography on Chemically Modified Graphene. Advanced Materials, 2016, 28, 1591-1596.	11.1	58
122	Dopant-specific unzipping of carbon nanotubes for intact crystalline graphene nanostructures. Nature Communications, 2016, 7, 10364.	5.8	109
123	Subnanometer Cobalt-Hydroxide-Anchored N-Doped Carbon Nanotube Forest for Bifunctional Oxygen Catalyst. ACS Applied Materials & Interfaces, 2016, 8, 1571-1577.	4.0	67
124	Laser Writing Block Copolymer Self-Assembly on Graphene Light-Absorbing Layer. ACS Nano, 2016, 10, 3435-3442.	7.3	102
125	One-Dimensional RuO₂/Mn₂O₃ Hollow Architectures as Efficient Bifunctional Catalysts for Lithiumâ€“Oxygen Batteries. Nano Letters, 2016, 16, 2076-2083.	4.5	193
126	Resilient High Catalytic Performance of Platinum Nanocatalysts with Porous Graphene Envelope. ACS Nano, 2015, 9, 5947-5957.	7.3	55

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127	Directed self-assembly of cylinder-forming diblock copolymers on sparse chemical patterns. Soft Matter, 2015, 11, 4496-4506.	1.2	15
128	High-performance nanopattern triboelectric generator by block copolymer lithography. Nano Energy, 2015, 12, 331-338.	8.2	146
129	Atomic Layer Deposition Encapsulated Activated Carbon Electrodes for High Voltage Stable Supercapacitors. ACS Applied Materials & Interfaces, 2015, 7, 1899-1906.	4.0	30
130	Anomalous Rapid Defect Annihilation in Self-Assembled Nanopatterns by Defect Melting. Nano Letters, 2015, 15, 1190-1196.	4.5	37
131	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, 144-151.	4.0	60
132	Direct Observation of a Carbon Filament in Water-Resistant Organic Memory. ACS Nano, 2015, 9, 7306-7313.	7.3	85
133	Auâ€“Ag Coreâ€“Shell Nanoparticle Array by Block Copolymer Lithography for Synergistic Broadband Plasmonic Properties. ACS Nano, 2015, 9, 5536-5543.	7.3	130
134	Self-Size-Limiting Nanoscale Perforation of Graphene for Dense Heteroatom Doping. ACS Applied Materials & Interfaces, 2015, 7, 25898-25905.	4.0	24
135	Surfactant mediated liquid phase exfoliation of graphene. Nano Convergence, 2015, 2, 20.	6.3	128
136	Selective and Regenerative Carbon Dioxide Capture by Highly Polarizing Porous Carbon Nitride. ACS Nano, 2015, 9, 9148-9157.	7.3	88
137	Chemically modified graphene based supercapacitors for flexible and miniature devices. Electronic Materials Letters, 2015, 11, 719-734.	1.0	47
138	Surface Modification of Block Copolymer Through Sulfur Containing Plasma Treatment. Journal of Nanoscience and Nanotechnology, 2015, 15, 8093-8098.	0.9	1
139	Synergistic Concurrent Enhancement of Charge Generation, Dissociation, and Transport in Organic Solar Cells with Plasmonic Metalâ€“Carbon Nanotube Hybrids. Advanced Materials, 2015, 27, 1519-1525.	11.1	85
140	Liquid crystallinity driven highly aligned large graphene oxide composites. Journal of Solid State Chemistry, 2015, 224, 115-119.	1.4	17
141	Spin Cast PDMS Film Supported Versatile and Transferrable Block Copolymer Lithography. Science of Advanced Materials, 2015, 7, 886-890.	0.1	1
142	Device-oriented graphene nanopatterning by mussel-inspired directed block copolymer self-assembly. Nanotechnology, 2014, 25, 014008.	1.3	29
143	Nanowire random networks. Materials Today, 2014, 17, 412-413.	8.3	2
144	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.	0.2	1

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145	Atomic Layer Deposition Assisted Pattern Multiplication of Block Copolymer Lithography for 5 nm Scale Nanopatterning. Advanced Functional Materials, 2014, 24, 4343-4348.	7.8	55
146	Amineâ€Based Polar Solvent Treatment for Highly Efficient Inverted Polymer Solar Cells. Advanced Materials, 2014, 26, 494-500.	11.1	159
147	Negativeâ€Tone Block Copolymer Lithography by In Situ Surface Chemical Modification. Small, 2014, 10, 4207-4212.	5.2	6
148	Graphene oxide-assisted production of carbon nitrides using a solution process and their photocatalytic activity. Carbon, 2014, 66, 119-125.	5.4	49
149	Electric fields line up graphene oxide. Nature Materials, 2014, 13, 325-326.	13.3	66
150	Threeâ€Dimensional Shape Engineered, Interfacial Gelation of Reduced Graphene Oxide for High Rate, Large Capacity Supercapacitors. Advanced Materials, 2014, 26, 615-619.	11.1	396
151	25th Anniversary Article: Chemically Modified/Doped Carbon Nanotubes & Graphene for Optimized Nanostructures & Nanodevices. Advanced Materials, 2014, 26, 40-67.	11.1	479
152	Subwavelength imaging in the visible range using a metal coated carbon nanotube forest. Nanoscale, 2014, 6, 5967-5970.	2.8	4
153	Complementary p- and n-Type Polymer Doping for Ambient Stable Graphene Inverter. ACS Nano, 2014, 8, 650-656.	7.3	42
154	N-doped graphitic self-encapsulation for high performance silicon anodes in lithium-ion batteries. Energy and Environmental Science, 2014, 7, 621-626.	15.6	137
155	Carbon: 25th Anniversary Article: Chemically Modified/Doped Carbon Nanotubes & Graphene for Optimized Nanostructures & Nanodevices (Adv. Mater. 1/2014). Advanced Materials, 2014, 26, 2-2.	11.1	7
156	Nanodomain Swelling Block Copolymer Lithography for Morphology Tunable Metal Nanopatterning. Small, 2014, 10, 3742-3749.	5.2	18
157	Electroless Bimetal Decoration on Nâ€Doped Carbon Nanotubes and Graphene for Oxygen Reduction Reaction Catalysts. Particle and Particle Systems Characterization, 2014, 31, 965-970.	1.2	21
158	Randomâ€Graft Polymerâ€Directed Synthesis of Inorganic Mesostructures with Ultrathin Frameworks. Angewandte Chemie - International Edition, 2014, 53, 5117-5121.	7.2	36
159	Semiconducting Polymers with Nanocrystallites Interconnected via Boron-Doped Carbon Nanotubes. Nano Letters, 2014, 14, 7100-7106.	4.5	17
160	Production of novel FeOOH/reduced graphene oxide hybrids and their performance as oxygen reduction reaction catalysts. Carbon, 2014, 80, 127-134.	5.4	42
161	Rheological properties of graphene oxide liquid crystal. Carbon, 2014, 80, 453-461.	5.4	124
162	Liquid Crystal Size Selection of Large-Size Graphene Oxide for Size-Dependent N-Doping and Oxygen Reduction Catalysis. ACS Nano, 2014, 8, 9073-9080.	7.3	116

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