

# Chao Gao

## List of Publications by Year in Descending Order

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

226  
papers

19,580  
citations

68  
h-index

137  
g-index

244  
ext. papers

22,785  
ext. citations

12.7  
avg, IF

7.51  
L-index

#	Paper	IF	Citations
226	Highly Efficient Cellular Acoustic Absorber of Graphene Ultrathin Drums.. <i>Advanced Materials</i> , <b>2022</b> , e2103740	12.7	3
225	A graphitized expanded graphite cathode for aluminum-ion battery with excellent rate capability. <i>Journal of Energy Chemistry</i> , <b>2022</b> , 66, 38-44	12	1
224	Progress and perspective in mechanically robust carbon aerogels. <i>Journal of Applied Physics</i> , <b>2022</b> , 131, 110904	2.5	
223	Stacked Plasmonic Metamaterial with Strong Localized Electric Field Enables Highly Efficient Broadband Light-Driven CO Hydrogenation.. <i>Advanced Materials</i> , <b>2022</b> , e2202367	24	5
222	Two-dimensional Topology-Seeded Graphitization for Highly Thermally Conductive Carbon Fibers.. <i>Advanced Materials</i> , <b>2022</b> , e2201867	24	3
221	Self-assembled macroscopic structures of graphene oxide fibers through a wet-fusing strategy. <i>Carbon</i> , <b>2022</b> , 196, 940-949	10.4	1
220	Precise Thermoplastic Processing of Graphene Oxide Layered Solid by Polymer Intercalation. <i>Nano-Micro Letters</i> , <b>2021</b> , 14, 12	19.5	4
219	Multifunctional Macroassembled Graphene Nanofilms with High Crystallinity. <i>Advanced Materials</i> , <b>2021</b> , 33, e2104195	24	6
218	Bioinspiration toward efficient photosynthetic systems: From biohybrids to biomimetics. <i>Chem Catalysis</i> , <b>2021</b> , 1, 1367-1367		4
217	Operando surface science methodology reveals surface effect in charge storage electrodes. <i>National Science Review</i> , <b>2021</b> , 8, nwaa289	10.8	6
216	The Origin of the Sheet Size Predicament in Graphene Macroscopic Papers. <i>ACS Nano</i> , <b>2021</b> , 15, 4824-4830	10.7	11
215	Reversible fusion and fission of graphene oxide-based fibers. <i>Science</i> , <b>2021</b> , 372, 614-617	33.3	17
214	Porous Bilayer Electrode-Guided Gas Diffusion for Enhanced CO <sub>2</sub> Electrochemical Reduction. <i>Advanced Energy and Sustainability Research</i> , <b>2021</b> , 2, 2100083	1.6	4
213	Hydroplastic Micromolding of 2D Sheets. <i>Advanced Materials</i> , <b>2021</b> , 33, e2008116	24	7
212	Altering Hydrogenation Pathways in Photocatalytic Nitrogen Fixation by Tuning Local Electronic Structure of Oxygen Vacancy with Dopant. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 16085-16092	16.4	37
211	High-Speed Blow Spinning of Neat Graphene Fibrous Materials. <i>Nano Letters</i> , <b>2021</b> , 21, 5116-5125	11.5	8
210	Altering Hydrogenation Pathways in Photocatalytic Nitrogen Fixation by Tuning Local Electronic Structure of Oxygen Vacancy with Dopant. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 16221-16228	3.6	4

209	Highly conductive graphene film with high-temperature stability for electromagnetic interference shielding. <i>Carbon</i> , <b>2021</b> , 179, 202-208	10.4	7
208	Advanced Graphene Materials for Sodium/Potassium/Aluminum-Ion Batteries <b>2021</b> , 3, 1221-1237		4
207	Monitoring atmospheric Kr by atom counting. <i>Journal of Environmental Radioactivity</i> , <b>2021</b> , 233, 106604	2.4	2
206	Robust adhesion between various surfaces enabled by lamellar stacking of graphene oxide nanosheets. <i>Carbon</i> , <b>2021</b> , 171, 417-425	10.4	3
205	Time-Resolved X-Ray Absorption Spectroscopy: Visualizing the Time Evolution of Photophysics and Photochemistry in Photocatalytic Solar Energy Conversion. <i>Solar Rrl</i> , <b>2021</b> , 5, 2000468	7.1	5
204	A Review on Graphene Oxide Two-dimensional Macromolecules: From Single Molecules to Macro-assembly. <i>Chinese Journal of Polymer Science (English Edition)</i> , <b>2021</b> , 39, 267-308	3.5	16
203	Printed aerogels: chemistry, processing, and applications. <i>Chemical Society Reviews</i> , <b>2021</b> , 50, 3842-3888	58.5	34
202	Water-Salt Oligomers Enable Supersoluble Electrolytes for High-Performance Aqueous Batteries. <i>Advanced Materials</i> , <b>2021</b> , 33, e2007470	24	25
201	Polyacrylonitrile-derived thermally conductive graphite film via graphene template effect. <i>Carbon</i> , <b>2021</b> , 180, 197-203	10.4	7
200	Stress relaxation behaviors of graphene fibers. <i>Carbon</i> , <b>2021</b> , 182, 384-392	10.4	4
199	Three-dimensional printing of graphene-based materials for energy storage and conversion. <i>SusMat</i> , <b>2021</b> , 1, 304-323		16
198	Plasticization stretching strategy towards high strength nacre-like graphene-based composites. <i>Composites Communications</i> , <b>2021</b> , 27, 100815	6.7	3
197	Bidirectional mid-infrared communications between two identical macroscopic graphene fibres. <i>Nature Communications</i> , <b>2020</b> , 11, 6368	17.4	9
196	Artificial Trees for Artificial Photosynthesis: Construction of Dendrite-Structured $\text{Fe}_2\text{O}_3/\text{g-C}_3\text{N}_4$ Z-Scheme System for Efficient $\text{CO}_2$ Reduction into Solar Fuels. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 6561-6572	6.1	32
195	Recent advances in engineering active sites for photocatalytic CO reduction. <i>Nanoscale</i> , <b>2020</b> , 12, 12196-12209	17.209	37
194	A polyimide-pyrolyzed carbon waste approach for the scalable and controlled electrochemical preparation of size-tunable graphene. <i>Nanoscale</i> , <b>2020</b> , 12, 11971-11978	7.7	6
193	Continuous crystalline graphene papers with gigapascal strength by intercalation modulated plasticization. <i>Nature Communications</i> , <b>2020</b> , 11, 2645	17.4	39
192	Anisotropic Thermal Transport in Spray-Coated Single-Phase Two-Dimensional Materials: Synthetic Clay Versus Graphene Oxide. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 18785-18791	9.5	10

191	Exquisite design of porous carbon microtubule-scaffolding hierarchical InO-ZnInS heterostructures toward efficient photocatalytic conversion of CO into CO. <i>Nanoscale</i> , <b>2020</b> , 12, 14676-14681	7.7	22
190	Digital Programming Graphene Oxide Liquid Crystalline Hybrid Hydrogel by Shearing Microlithography. <i>ACS Nano</i> , <b>2020</b> , 14, 2336-2344	16.7	7
189	Ultrathick and highly thermally conductive graphene films by self-fusion. <i>Carbon</i> , <b>2020</b> , 167, 249-255	10.4	22
188	Piezoresistive effect of superelastic graphene aerogel spheres. <i>Carbon</i> , <b>2020</b> , 158, 418-425	10.4	25
187	Breathable and Flexible Polymer Membranes with Mechanoresponsive Electric Resistance. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1907555	15.6	21
186	Liquid crystalline 3D printing for superstrong graphene microlattices with high density. <i>Carbon</i> , <b>2020</b> , 159, 166-174	10.4	14
185	Heavy Water Enables High-Voltage Aqueous Electrochemistry via the Deuterium Isotope Effect. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 303-310	6.4	9
184	Twist-spinning assembly of robust ultralight graphene fibers with hierarchical structure and multi-functions. <i>Carbon</i> , <b>2020</b> , 158, 157-162	10.4	7
183	Conformational Scaling Relations of Two-Dimensional Macromolecular Graphene Oxide in Solution. <i>Macromolecules</i> , <b>2020</b> , 53, 10421-10430	5.5	8
182	Conformation Engineering of Two-Dimensional Macromolecules: A Case Study with Graphene Oxide. <i>Accounts of Materials Research</i> , <b>2020</b> , 1, 175-187	7.5	6
181	Hydroplastic foaming of graphene aerogels and artificially intelligent tactile sensors. <i>Science Advances</i> , <b>2020</b> , 6,	14.3	46
180	Self-Adaptive All-In-One Delivery Chip for Rapid Skin Nerves Regeneration by Endogenous Mesenchymal Stem Cells. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2001751	15.6	18
179	Conformational Phase Map of Two-Dimensional Macromolecular Graphene Oxide in Solution. <i>Matter</i> , <b>2020</b> , 3, 230-245	12.7	16
178	Highly Crystalline Graphene Fibers with Superior Strength and Conductivities by Plasticization Spinning. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2006584	15.6	31
177	Wet-spinning assembly of nitrogen-doped graphene film for stable graphene-polyaniline supercapacitor electrodes with high mass loading. <i>Science China Materials</i> , <b>2020</b> , 63, 1889-1897	7.1	4
176	Environmentally stable macroscopic graphene films with specific electrical conductivity exceeding metals. <i>Carbon</i> , <b>2020</b> , 156, 205-211	10.4	21
175	High-efficiency electromagnetic interference shielding realized in nacre-mimetic graphene/polymer composite with extremely low graphene loading. <i>Carbon</i> , <b>2020</b> , 157, 570-577	10.4	85
174	Dynamic dispersion stability of graphene oxide with metal ions. <i>Chinese Chemical Letters</i> , <b>2020</b> , 31, 162581629	4	

173	Capacitive charge storage enables an ultrahigh cathode capacity in aluminum-graphene battery. <i>Journal of Energy Chemistry</i> , <b>2020</b> , 45, 40-44	12	22
172	Graphene photonic crystal fiber with large modulation depth. <i>Science China Chemistry</i> , <b>2020</b> , 63, 5-6	7.9	
171	A Review on Graphene Fibers: Expectations, Advances, and Prospects. <i>Advanced Materials</i> , <b>2020</b> , 32, e1902664	24	126
170	Impacts of climate change on characteristics of daily-scale rainfall events based on nine selected GCMs under four CMIP5 RCP scenarios in Qu River basin, east China. <i>International Journal of Climatology</i> , <b>2020</b> , 40, 887-907	3.5	10
169	Rapid roll-to-roll production of graphene films using intensive Joule heating. <i>Carbon</i> , <b>2019</b> , 155, 462-468	10.4	44
168	Artificial colloidal liquid metacrystals by shearing microlithography. <i>Nature Communications</i> , <b>2019</b> , 10, 4111	17.4	17
167	Ultrastiff, Strong, and Highly Thermally Conductive Crystalline Graphitic Films with Mixed Stacking Order. <i>Advanced Materials</i> , <b>2019</b> , 31, e1903039	24	27
166	Design of atomically dispersed catalytic sites for photocatalytic CO reduction. <i>Nanoscale</i> , <b>2019</b> , 11, 11064-11074	4.7	11
165	Millisecond Response of Shape Memory Polymer Nanocomposite Aerogel Powered by Stretchable Graphene Framework. <i>ACS Nano</i> , <b>2019</b> , 13, 5549-5558	16.7	39
164	Time-Dependent Surface Oxidation of Pd Nanocubes and its Role in Controlling Catalytic Performance. <i>ChemNanoMat</i> , <b>2019</b> , 5, 878-882	3.5	2
163	Commercial expanded graphite as high-performance cathode for low-cost aluminum-ion battery. <i>Carbon</i> , <b>2019</b> , 148, 134-140	10.4	43
162	Scalable Synthesis of Positively Charged Sequence-Defined Functional Polymers. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 4541-4546	16.4	28
161	Handedness-controlled and solvent-driven actuators with twisted fibers. <i>Materials Horizons</i> , <b>2019</b> , 6, 1207-1214	14.4	24
160	Hierarchical Porous SWCNT Stringed Carbon Polyhedrons and PSS Threaded MOF Bilayer Membrane for Efficient Solar Vapor Generation. <i>Small</i> , <b>2019</b> , 15, e1900354	11	53
159	Tri-high designed graphene electrodes for long cycle-life supercapacitors with high mass loading. <i>Energy Storage Materials</i> , <b>2019</b> , 17, 349-357	19.4	42
158	Low-cost AlCl <sub>3</sub> /Et <sub>3</sub> NHCl electrolyte for high-performance aluminum-ion battery. <i>Energy Storage Materials</i> , <b>2019</b> , 17, 38-45	19.4	84
157	Total Basin Discharge From GRACE and Water Balance Method for the Yarlung Tsangpo River Basin, Southwestern China. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 7617-7632	4.4	15
156	Nonsphere Drop Impact Assembly of Graphene Oxide Liquid Crystals. <i>ACS Nano</i> , <b>2019</b> , 13, 8382-8391	16.7	10

155	Surface acoustic wave humidity sensors based on uniform and thickness controllable graphene oxide thin films formed by surface tension. <i>Microsystems and Nanoengineering</i> , <b>2019</b> , 5, 36	7.7	37
154	Crystal phase engineering on photocatalytic materials for energy and environmental applications. <i>Nano Research</i> , <b>2019</b> , 12, 2031-2054	10	66
153	Recent Progress on Electrocatalyst and Photocatalyst Design for Nitrogen Reduction. <i>Small Methods</i> , <b>2019</b> , 3, 1800388	12.8	169
152	Wet-spun poly(ionic liquid)-graphene hybrid fibers for high performance all-solid-state flexible supercapacitors. <i>Journal of Energy Chemistry</i> , <b>2019</b> , 34, 104-110	12	19
151	Direct 3D Printing of Ultralight Graphene Oxide Aerogel Microlattices. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1707024	15.6	198
150	Highly stretchable carbon aerogels. <i>Nature Communications</i> , <b>2018</b> , 9, 881	17.4	136
149	Graphene aerogel films with expansion enhancement effect of high-performance electromagnetic interference shielding. <i>Carbon</i> , <b>2018</b> , 135, 44-51	10.4	92
148	Heterogeneous Single-Atom Catalyst for Visible-Light-Driven High-Turnover CO Reduction: The Role of Electron Transfer. <i>Advanced Materials</i> , <b>2018</b> , 30, e1704624	24	254
147	Porous Graphene Microflowers for High-Performance Microwave Absorption. <i>Nano-Micro Letters</i> , <b>2018</b> , 10, 26	19.5	173
146	An improved sensitivity AlN microcantilever humidity sensor using interdigital transducers actuated very high resonant mode and graphene oxide sensing layer <b>2018</b> ,		4
145	Synergistic effect of graphene and carbon nanotube for high-performance electromagnetic interference shielding films. <i>Carbon</i> , <b>2018</b> , 133, 316-322	10.4	120
144	Chemically doped macroscopic graphene fibers with significantly enhanced thermoelectric properties. <i>Nano Research</i> , <b>2018</b> , 11, 741-750	10	59
143	A High-Performance Direct Methanol Fuel Cell Technology Enabled by Mediating High-Concentration Methanol through a Graphene Aerogel. <i>Small Methods</i> , <b>2018</b> , 2, 1800138	12.8	15
142	Boosting Lithium Storage Properties of MOF Derivatives through a Wet-Spinning Assembled Fiber Strategy. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 13792-13799	4.8	55
141	Ultralight graphene micro-popcorns for multifunctional composite applications. <i>Carbon</i> , <b>2018</b> , 139, 545-554	15.4	20
140	Interlayer crosslinking to conquer the stress relaxation of graphene laminated materials. <i>Materials Horizons</i> , <b>2018</b> , 5, 1112-1119	14.4	17
139	Fabrication of Nitrogen-Doped Graphene Decorated with Organophosphor and Lanthanum toward High-Performance ABS Nanocomposites. <i>ACS Applied Nano Materials</i> , <b>2018</b> , 1, 3204-3213	5.6	18
138	Low-Resistance Porous Nanocellular MnSe Electrodes for High-Performance All-Solid-State Battery-Supercapacitor Hybrid Devices. <i>Advanced Materials Technologies</i> , <b>2018</b> , 3, 1800074	6.8	34

137	Highly Sensitive AlN Surface Acoustic Wave Humidity Sensor Based on Uniform Graphene Oxide Thin Film Formed by Surface Tension <b>2018</b> ,		3
136	Highly conductive porous graphene/sulfur composite ribbon electrodes for flexible lithium-sulfur batteries. <i>Nanoscale</i> , <b>2018</b> , 10, 21132-21141	7.7	20
135	Functionalization of wet-spun graphene films using aminophenol molecules for high performance supercapacitors. <i>Materials Chemistry Frontiers</i> , <b>2018</b> , 2, 2313-2319	7.8	13
134	Potential evapotranspiration changes in Lancang River Basin and Yarlung Zangbo River Basin, southwest China. <i>Hydrological Sciences Journal</i> , <b>2018</b> , 63, 1653-1668	3.5	11
133	Enabling Visible-Light-Driven Selective CO <sub>2</sub> Reduction by Doping Quantum Dots: Trapping Electrons and Suppressing H <sub>2</sub> Evolution. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 16685-16689	3.6	18
132	Enabling Visible-Light-Driven Selective CO Reduction by Doping Quantum Dots: Trapping Electrons and Suppressing H Evolution. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 16447-16451	16.4	153
131	Artificial Bicontinuous Laminate Synergistically Reinforces and Toughens Dilute Graphene Composites. <i>ACS Nano</i> , <b>2018</b> , 12, 11236-11243	16.7	19
130	Defect engineering in photocatalytic materials. <i>Nano Energy</i> , <b>2018</b> , 53, 296-336	17.1	417
129	Multifunctional Bicontinuous Composite Foams with Ultralow Percolation Thresholds. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 20806-20815	9.5	16
128	A Defect-Free Principle for Advanced Graphene Cathode of Aluminum-Ion Battery. <i>Advanced Materials</i> , <b>2017</b> , 29, 1605958	24	228
127	Graphene and Other 2D Colloids: Liquid Crystals and Macroscopic Fibers. <i>Advanced Materials</i> , <b>2017</b> , 29, 1606794	24	101
126	Isolation of Cu Atoms in Pd Lattice: Forming Highly Selective Sites for Photocatalytic Conversion of CO to CH <sub>4</sub> . <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 4486-4492	16.4	317
125	Continuous fabrication of the graphene-confined polypyrrole film for cycling stable supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 8255-8260	13	21
124	Ultrahigh Thermal Conductive yet Superflexible Graphene Films. <i>Advanced Materials</i> , <b>2017</b> , 29, 1700589	24	289
123	High-Quality Graphene Microflower Design for High-Performance Li <sup>+</sup> and Al-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1700051	21.8	117
122	Hydrating Pd cocatalysts: An approach to giant enhancement on photocatalytic CO <sub>2</sub> reduction into CH <sub>4</sub> . <i>Nano Research</i> , <b>2017</b> , 10, 3396-3406	10	72
121	Biomimetic Architected Graphene Aerogel with Exceptional Strength and Resilience. <i>ACS Nano</i> , <b>2017</b> , 11, 6817-6824	16.7	214
120	Oxide Film Efficiently Suppresses Dendrite Growth in Aluminum-Ion Battery. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 22628-22634	9.5	72

119	Coordination chemistry in the design of heterogeneous photocatalysts. <i>Chemical Society Reviews</i> , <b>2017</b> , 46, 2799-2823	58.5	305
118	A Broadband Fluorographene Photodetector. <i>Advanced Materials</i> , <b>2017</b> , 29, 1700463	24	72
117	Superconducting Continuous Graphene Fibers via Calcium Intercalation. <i>ACS Nano</i> , <b>2017</b> , 11, 4301-4306	16.7	35
116	Highly Stretchable Graphene Fibers with Ultrafast Electrothermal Response for Low-Voltage Wearable Heaters. <i>Advanced Electronic Materials</i> , <b>2017</b> , 3, 1600425	6.4	94
115	MXene/graphene hybrid fibers for high performance flexible supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 22113-22119	13	212
114	Wet-spinning of ternary synergistic coaxial fibers for high performance yarn supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 22489-22494	13	42
113	Hydrothermally Activated Graphene Fiber Fabrics for Textile Electrodes of Supercapacitors. <i>ACS Nano</i> , <b>2017</b> , 11, 11056-11065	16.7	87
112	A Mini Review on Nanocarbon-Based 1D Macroscopic Fibers: Assembly Strategies and Mechanical Properties. <i>Nano-Micro Letters</i> , <b>2017</b> , 9, 51	19.5	29
111	Ion Diffusion-Directed Assembly Approach to Ultrafast Coating of Graphene Oxide Thick Multilayers. <i>ACS Nano</i> , <b>2017</b> , 11, 9663-9670	16.7	23
110	Effect of flake size on the mechanical properties of graphene aerogels prepared by freeze casting. <i>RSC Advances</i> , <b>2017</b> , 7, 33600-33605	3.7	36
109	Wet-Spun Superelastic Graphene Aerogel Millispheres with Group Effect. <i>Advanced Materials</i> , <b>2017</b> , 29, 1701482	24	99
108	Wrinkle-stabilized metal-graphene hybrid fibers with zero temperature coefficient of resistance. <i>Nanoscale</i> , <b>2017</b> , 9, 12178-12188	7.7	13
107	Wood-based straightway channel structure for high performance microwave absorption. <i>Carbon</i> , <b>2017</b> , 124, 492-498	10.4	133
106	Sheet Collapsing Approach for Rubber-like Graphene Papers. <i>ACS Nano</i> , <b>2017</b> , 11, 8092-8102	16.7	36
105	Dry spinning approach to continuous graphene fibers with high toughness. <i>Nanoscale</i> , <b>2017</b> , 9, 12335-12342	7.7	47
104	Ultrafast all-climate aluminum-graphene battery with quarter-million cycle life. <i>Science Advances</i> , <b>2017</b> , 3, eaao7233	14.3	230
103	Superlight, Mechanically Flexible, Thermally Superinsulating, and Antifrosting Anisotropic Nanocomposite Foam Based on Hierarchical Graphene Oxide Assembly. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 44010-44017	9.5	45
102	Large-area potassium-doped highly conductive graphene films for electromagnetic interference shielding. <i>Nanoscale</i> , <b>2017</b> , 9, 18613-18618	7.7	41



101	Experimental Guidance to Graphene Macroscopic Wet-Spun Fibers, Continuous Papers, and Ultralightweight Aerogels. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 319-330	9.6	36
100	Carbon Nanotubes Loaded on Graphene Microfolds as Efficient Bifunctional Electrocatalysts for the Oxygen Reduction and Oxygen Evolution Reactions. <i>ChemCatChem</i> , <b>2017</b> , 9, 4520-4528	5.2	7
99	Systematic characterization of transport and thermoelectric properties of a macroscopic graphene fiber. <i>Nano Research</i> , <b>2016</b> , 9, 3536-3546	10	40
98	Group interval-controlled polymers: an example of epoxy functional polymers via step-growth thiol-ene polymerization. <i>Polymer Chemistry</i> , <b>2016</b> , 7, 6202-6210	4.9	8
97	Three-dimensional macro-structures of two-dimensional nanomaterials. <i>Chemical Society Reviews</i> , <b>2016</b> , 45, 5541-5588	58.5	231
96	Superb Electrically Conductive Graphene Fibers via Doping Strategy. <i>Advanced Materials</i> , <b>2016</b> , 28, 7941-7947	29.4	116
95	High porosity microspheres with functional groups synthesized by thiol-ene click suspension polymerization. <i>Polymer Chemistry</i> , <b>2016</b> , 7, 7400-7407	4.9	11
94	A Highly Efficient Metal-Free Oxygen Reduction Electrocatalyst Assembled from Carbon Nanotubes and Graphene. <i>Advanced Materials</i> , <b>2016</b> , 28, 4606-13	24	178
93	Investigating the uncertainty and transferability of parameters in SWAT model under climate change. <i>Hydrological Sciences Journal</i> , <b>2016</b> , 1-17	3.5	7
92	Redissolution of Flower-Shaped Graphene Oxide Powder with High Density. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 8000-7	9.5	26
91	A novel wet-spinning method of manufacturing continuous bio-inspired composites based on graphene oxide and sodium alginate. <i>Nano Research</i> , <b>2016</b> , 9, 735-744	10	35
90	Mass production of graphene nanoscrolls and their application in high rate performance supercapacitors. <i>Nanoscale</i> , <b>2016</b> , 8, 1413-20	7.7	47
89	Ultrastiff and Strong Graphene Fibers via Full-Scale Synergetic Defect Engineering. <i>Advanced Materials</i> , <b>2016</b> , 28, 6449-56	24	217
88	Co <sub>3</sub> O <sub>4</sub> Hexagonal Platelets with Controllable Facets Enabling Highly Efficient Visible-Light Photocatalytic Reduction of CO <sub>2</sub> . <i>Advanced Materials</i> , <b>2016</b> , 28, 6485-90	24	296
87	Multifunctional non-woven fabrics of interfused graphene fibres. <i>Nature Communications</i> , <b>2016</b> , 7, 13684	7.4	156
86	An iron-based green approach to 1-h production of single-layer graphene oxide. <i>Nature Communications</i> , <b>2015</b> , 6, 5716	17.4	302
85	Graphene fiber: a new trend in carbon fibers. <i>Materials Today</i> , <b>2015</b> , 18, 480-492	21.8	257
84	Superstructured Assembly of Nanocarbons: Fullerenes, Nanotubes, and Graphene. <i>Chemical Reviews</i> , <b>2015</b> , 115, 7046-117	68.1	381

83	Monolithic Neat Graphene Oxide Aerogel for Efficient Catalysis of S- $\alpha$ Acetyl Migration. <i>ACS Catalysis</i> , <b>2015</b> , 5, 3387-3392	13.1	34
82	Wet-spinning of continuous montmorillonite-graphene fibers for fire-resistant lightweight conductors. <i>ACS Nano</i> , <b>2015</b> , 9, 5214-22	16.7	100
81	Graphene-based single fiber supercapacitor with a coaxial structure. <i>Nanoscale</i> , <b>2015</b> , 7, 9399-404	7.7	155
80	High-flux graphene oxide nanofiltration membrane intercalated by carbon nanotubes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 8147-55	9.5	362
79	High rate capability supercapacitors assembled from wet-spun graphene films with a CaCO <sub>3</sub> template. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 1890-1895	13	26
78	Solution processible hyperbranched inverse-vulcanized polymers as new cathode materials in LiB batteries. <i>Polymer Chemistry</i> , <b>2015</b> , 6, 973-982	4.9	45
77	The electrophilic effect of thiol groups on thiol-yne thermal click polymerization for hyperbranched polythioether. <i>Polymer Chemistry</i> , <b>2015</b> , 6, 3747-3753	4.9	25
76	Novel triethylamine catalyzed S- $\alpha$ acetyl migration reaction to generate candidate thiols for construction of topological and functional sulfur-containing polymers. <i>RSC Advances</i> , <b>2015</b> , 5, 5674-5679	3.7	11
75	Supramolecule-mediated synthesis of MoS <sub>2</sub> /reduced graphene oxide composites with enhanced electrochemical performance for reversible lithium storage. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 6884-6893	13	89
74	Wet-spun, porous, orientational graphene hydrogel films for high-performance supercapacitor electrodes. <i>Nanoscale</i> , <b>2015</b> , 7, 4080-7	7.7	72
73	Sequentially hetero-functional, topological polymers by step-growth thiol-yne approach. <i>Scientific Reports</i> , <b>2014</b> , 4, 4387	4.9	40
72	Coaxial wet-spun yarn supercapacitors for high-energy density and safe wearable electronics. <i>Nature Communications</i> , <b>2014</b> , 5, 3754	17.4	880
71	Wet-Spun Continuous Graphene Films. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 6786-6795	9.6	149
70	Graphene fiber-based asymmetric micro-supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 9736-9743	3.7	156
69	Highly oxidized graphene with enhanced fluorescence and its direct fluorescence visualization. <i>Science China Chemistry</i> , <b>2014</b> , 57, 605-614	7.9	7
68	Millimeter-sized MgAl-LDH nanoflake impregnated magnetic alginate beads (LDH-n-MABs): a novel bio-based sorbent for the removal of fluoride in water. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 2119-2128	13	90
67	Graphene in macroscopic order: liquid crystals and wet-spun fibers. <i>Accounts of Chemical Research</i> , <b>2014</b> , 47, 1267-76	24.3	264
66	A density gradient of basic fibroblast growth factor guides directional migration of vascular smooth muscle cells. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2014</b> , 117, 290-5	6	16

65	Ultrathin Graphene Nanofiltration Membrane for Water Purification. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 3693-3700	15.6	1120
64	Aerogels: Multifunctional, Ultra-Flyweight, Synergistically Assembled Carbon Aerogels (Adv. Mater. 18/2013). <i>Advanced Materials</i> , <b>2013</b> , 25, 2632-2632	24	9
63	Lyotropic Liquid Crystal of Polyacrylonitrile-Grafted Graphene Oxide and Its Assembled Continuous Strong Nacre-Mimetic Fibers. <i>Macromolecules</i> , <b>2013</b> , 46, 6931-6941	5.5	101
62	Liquid crystal self-templating approach to ultrastrong and tough biomimic composites. <i>Scientific Reports</i> , <b>2013</b> , 3, 2374	4.9	80
61	Ultrastrong fibers assembled from giant graphene oxide sheets. <i>Advanced Materials</i> , <b>2013</b> , 25, 188-93	24	542
60	High-density and hetero-functional group engineering of segmented hyperbranched polymers via click chemistry. <i>Polymer Chemistry</i> , <b>2013</b> , 4, 1774-1787	4.9	78
59	Multifunctional, ultra-flyweight, synergistically assembled carbon aerogels. <i>Advanced Materials</i> , <b>2013</b> , 25, 2554-60	24	1494
58	Graphene: Ultrastrong Fibers Assembled from Giant Graphene Oxide Sheets (Adv. Mater. 2/2013). <i>Advanced Materials</i> , <b>2013</b> , 25, 187-187	24	4
57	Fast bulk click polymerization approach to linear and hyperbranched alternating multiblock copolymers. <i>Polymer Chemistry</i> , <b>2013</b> , 4, 542-549	4.9	41
56	Highly electrically conductive Ag-doped graphene fibers as stretchable conductors. <i>Advanced Materials</i> , <b>2013</b> , 25, 3249-53	24	235
55	Bioinspired design and macroscopic assembly of poly(vinyl alcohol)-coated graphene into kilometers-long fibers. <i>Nanoscale</i> , <b>2013</b> , 5, 4370-8	7.7	98
54	Dendritic molecular brushes: synthesis via sequential RAFT polymerization and cage effect for fluorophores. <i>Polymer Chemistry</i> , <b>2013</b> , 4, 4450	4.9	32
53	Macroscopic assembled, ultrastrong and H <sub>2</sub> SO <sub>4</sub> -resistant fibres of polymer-grafted graphene oxide. <i>Scientific Reports</i> , <b>2013</b> , 3, 3164	4.9	72
52	Flexible high performance wet-spun graphene fiber supercapacitors. <i>RSC Advances</i> , <b>2013</b> , 3, 23957	3.7	137
51	Directional migration of vascular smooth muscle cells guided by synergetic surface gradient and chemical pattern of poly(ethylene glycol) brushes. <i>Journal of Bioactive and Compatible Polymers</i> , <b>2013</b> , 28, 605-620	2	9
50	Multifunctional, supramolecular, continuous artificial nacre fibres. <i>Scientific Reports</i> , <b>2012</b> , 2, 767	4.9	96
49	Strong, conductive, lightweight, neat graphene aerogel fibers with aligned pores. <i>ACS Nano</i> , <b>2012</b> , 6, 7103-13	16.7	520
48	Fast and scalable production of hyperbranched polythioether-ynes by a combination of thiol-halogen click-like coupling and thiol-yne click polymerization. <i>Polymer Chemistry</i> , <b>2012</b> , 3, 1918-1923	4.9	46

47	Water-Soluble and Clickable Segmented Hyperbranched Polymers for Multifunctionalization and Novel Architecture Construction. <i>Macromolecules</i> , <b>2012</b> , 45, 4966-4977	5.5	74
46	AlOOH-reduced graphene oxide nanocomposites: one-pot hydrothermal synthesis and their enhanced electrochemical activity for heavy metal ions. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2012</b> , 4, 4672-82	9.5	194
45	Graphene-templated approach to ultrathin silica nanosheets. <i>Science Bulletin</i> , <b>2012</b> , 57, 3026-3029		4
44	Reversible photoswitching self-assembly of azobenzene-functionalized hyperbranched polyglycerol induced by host-guest chemistry. <i>Science China Chemistry</i> , <b>2012</b> , 55, 604-611	7.9	6
43	Grafting and Surface Properties of Hyperbranched Polymers <b>2011</b> , 369-385		1
42	Applications of Hyperbranched Polymers in Coatings, as Additives, and in Nanotechnology <b>2011</b> , 415-440		6
41	Hyperbranched EConjugated Polymers <b>2011</b> , 273-300		1
40	General Avenue to Multifunctional Aqueous Nanocrystals Stabilized by Hyperbranched Polyglycerol. <i>Chemistry of Materials</i> , <b>2011</b> , 23, 1461-1470	9.6	66
39	Ring-Opening Multibranching Polymerization <b>2011</b> , 175-202		1
38	Polycondensation of AB <sub>x</sub> Monomers <b>2011</b> , 27-77		1
37	Synthesis of Hyperbranched Polymers via Polymerization of Functionally Symmetric Monomer Pairs <b>2011</b> , 79-106		3
36	Promising Dendritic Materials: An Introduction to Hyperbranched Polymers <b>2011</b> , 1-26		15
35	Synthesis of Hyperbranched Polymers via Polymerization of Asymmetric Monomer Pairs <b>2011</b> , 107-138		5
34	Self-Condensing Vinyl Polymerization <b>2011</b> , 139-174		6
33	Hyperbranched Copolymers Synthesized by Cocondensation and Radical Copolymerization <b>2011</b> , 203-226		2
32	Degree of Branching (DB) <b>2011</b> , 301-316		1
31	Influence of Branching Architecture on Polymer Properties <b>2011</b> , 317-331		1
30	Biological and Medical Applications of Hyperbranched Polymers <b>2011</b> , 387-413		6

29	Kinetic Theory of Hyperbranched Polymerization <b>2011</b> , 333-367		4
28	Conclusions and Perspective: Toward Hyperbranched/Dendritic States <b>2011</b> , 441-452		
27	Hyperbranched and Dendritic Polyolefins Prepared by Transition Metal Catalyzed Polymerization <b>2011</b> , 251-271		1
26	Convergent Synthesis of Hyperbranched Polymers and Related Approaches <b>2011</b> , 227-249		
25	Graphene chiral liquid crystals and macroscopic assembled fibres. <i>Nature Communications</i> , <b>2011</b> , 2, 571	17.4	833
24	Sequential click synthesis of hyperbranched polymers via the A <sub>2</sub> + CB <sub>2</sub> approach. <i>Polymer Chemistry</i> , <b>2011</b> , 2, 2175	4.9	63
23	Grafting of Polymers on Nanotubes by Atom Transfer Radical Polymerization <b>2011</b> , 179-213		
22	Aqueous liquid crystals of graphene oxide. <i>ACS Nano</i> , <b>2011</b> , 5, 2908-15	16.7	482
21	Hyperbranched polymers meet colloid nanocrystals: a promising avenue to multifunctional, robust nanohybrids. <i>Colloid and Polymer Science</i> , <b>2011</b> , 289, 1299-1320	2.4	42
20	Graphene nanosheets decorated with Pd, Pt, Au, and Ag nanoparticles: Synthesis, characterization, and catalysis applications. <i>Science China Chemistry</i> , <b>2011</b> , 54, 397-404	7.9	100
19	β-Cyclodextrin-Capped Polyrotaxanes: One-Pot Facile Synthesis via Click Chemistry and Use as Templates for Platinum Nanowires. <i>Macromolecules</i> , <b>2010</b> , 43, 2252-2260	5.5	53
18	Transparent and flexible thin films of ZnO-polystyrene nanocomposite for UV-shielding applications. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 1594		153
17	Click chemistry approach to functionalize two-dimensional macromolecules of graphene oxide nanosheets. <i>Nano-Micro Letters</i> , <b>2010</b> , 2, 177-183	19.5	79
16	Functionalization of carbon nanotubes and other nanocarbons by azide chemistry. <i>Nano-Micro Letters</i> , <b>2010</b> , 2, 213-226	19.5	48
15	General Approach to Individually Dispersed, Highly Soluble, and Conductive Graphene Nanosheets Functionalized by Nitrene Chemistry. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 5054-5064	9.6	394
14	In situ Polymerization Approach to Graphene-Reinforced Nylon-6 Composites. <i>Macromolecules</i> , <b>2010</b> , 43, 6716-6723	5.5	569
13	Simultaneous photoluminescence import and mechanical enhancement of polymer films using silica-hybridized quantum dots. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 5675		25
12	Miktoarms hyperbranched polymer brushes: One-step fast synthesis by parallel click chemistry and hierarchical self-assembly. <i>Science China Chemistry</i> , <b>2010</b> , 53, 2461-2471	7.9	13

11	Click chemistry approach to functionalize two-dimensional macromolecules of graphene oxide nanosheets <b>2010</b> , 2, 177		3
10	Functionalization of carbon nanotubes and other nanocarbons by azide chemistry <b>2010</b> , 2, 213		3
9	Efficient Grafting of Hyperbranched Polyglycerol from Hydroxyl-Functionalized Multiwalled Carbon Nanotubes by Surface-Initiated Anionic Ring-Opening Polymerization. <i>Macromolecular Chemistry and Physics</i> , <b>2009</b> , 210, 1011-1018	2.6	50
8	Click Chemistry Approach to Rhodamine B-Capped Polyrotaxanes and their Unique Fluorescence Properties. <i>Macromolecular Chemistry and Physics</i> , <b>2009</b> , 210, 1697-1708	2.6	21
7	Facile synthesis and self-assembly of multihetero-arm hyperbranched polymer brushes. <i>Soft Matter</i> , <b>2009</b> , 5, 4788	3.6	43
6	Amphibious polymer-functionalized CdTe quantum dots: Synthesis, thermo-responsive self-assembly, and photoluminescent properties. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 5655		38
5	Biosynthetic CdS-Thiobacillus thioparus hybrid for solar-driven carbon dioxide fixation. <i>Nano Research</i> , 1	10	2
4	The Functionalization of Graphene and Its Assembled Macrostructures 19-44		
3	The Functionalization of Carbon Nanotubes and Nano-Onions 1-18		1
2	Liquid Crystalline Microdroplets of Graphene Oxide via Microfluidics. <i>Chinese Journal of Polymer Science (English Edition)</i> , 1	3.5	2
1	Highly electrically conductive graphene papers via catalytic graphitization. <i>Nano Research</i> , 1	10	2