Chao Gao

List of Publications by Citations

226	19,580	68	137
papers	citations	h-index	g-index
244	22,785	12.7	7.51
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
226	Multifunctional, ultra-flyweight, synergistically assembled carbon aerogels. *Advanced Materials*, **2013**, 25, 2554-60	24	1494
225	Ultrathin Graphene Nanofiltration Membrane for Water Purification. *Advanced Functional Materials*, **2013**, 23, 3693-3700	15.6	1120
224	Coaxial wet-spun yarn supercapacitors for high-energy density and safe wearable electronics. *Nature Communications*, **2014**, 5, 3754	17.4	880
223	Graphene chiral liquid crystals and macroscopic assembled fibres. *Nature Communications*, **2011**, 2, 571	17.4	833
222	In situ Polymerization Approach to Graphene-Reinforced Nylon-6 Composites. *Macromolecules*, **2010**, 43, 6716-6723	5.5	569
221	Ultrastrong fibers assembled from giant graphene oxide sheets. *Advanced Materials*, **2013**, 25, 188-93	24	542
220	Strong, conductive, lightweight, neat graphene aerogel fibers with aligned pores. *ACS Nano*, **2012**, 6, 7103-13	16.7	520
219	Aqueous liquid crystals of graphene oxide. *ACS Nano*, **2011**, 5, 2908-15	16.7	482
218	Defect engineering in photocatalytic materials. *Nano Energy*, **2018**, 53, 296-336	17.1	417
217	General Approach to Individually Dispersed, Highly Soluble, and Conductive Graphene Nanosheets Functionalized by Nitrene Chemistry. *Chemistry of Materials*, **2010**, 22, 5054-5064	9.6	394
216	Superstructured Assembly of Nanocarbons: Fullerenes, Nanotubes, and Graphene. *Chemical Reviews*, **2015**, 115, 7046-117	68.1	381
215	High-flux graphene oxide nanofiltration membrane intercalated by carbon nanotubes. *ACS Applied Materials & Interfaces*, **2015**, 7, 8147-55	9.5	362
214	Isolation of Cu Atoms in Pd Lattice: Forming Highly Selective Sites for Photocatalytic Conversion of CO to CH. *Journal of the American Chemical Society*, **2017**, 139, 4486-4492	16.4	317
213	Coordination chemistry in the design of heterogeneous photocatalysts. *Chemical Society Reviews*, **2017**, 46, 2799-2823	58.5	305
212	An iron-based green approach to 1-h production of single-layer graphene oxide. *Nature Communications*, **2015**, 6, 5716	17.4	302
211	Co3 O4 Hexagonal Platelets with Controllable Facets Enabling Highly Efficient Visible-Light Photocatalytic Reduction of CO2. *Advanced Materials*, **2016**, 28, 6485-90	24	296
210	Ultrahigh Thermal Conductive yet Superflexible Graphene Films. *Advanced Materials*, **2017**, 29, 1700589	24	289

209	Graphene in macroscopic order: liquid crystals and wet-spun fibers. *Accounts of Chemical Research*, **2014**, 47, 1267-76	24.3	264
208	Graphene fiber: a new trend in carbon fibers. *Materials Today*, **2015**, 18, 480-492	21.8	257
207	Heterogeneous Single-Atom Catalyst for Visible-Light-Driven High-Turnover CO Reduction: The Role of Electron Transfer. *Advanced Materials*, **2018**, 30, e1704624	24	254
206	Highly electrically conductive Ag-doped graphene fibers as stretchable conductors. *Advanced Materials*, **2013**, 25, 3249-53	24	235
205	Three-dimensional macro-structures of two-dimensional nanomaterials. *Chemical Society Reviews*, **2016**, 45, 5541-5588	58.5	231
204	Ultrafast all-climate aluminum-graphene battery with quarter-million cycle life. *Science Advances*, **2017**, 3, eaao7233	14.3	230
203	A Defect-Free Principle for Advanced Graphene Cathode of Aluminum-Ion Battery. *Advanced Materials*, **2017**, 29, 1605958	24	228
202	Ultrastiff and Strong Graphene Fibers via Full-Scale Synergetic Defect Engineering. *Advanced Materials*, **2016**, 28, 6449-56	24	217
201	Biomimetic Architectured Graphene Aerogel with Exceptional Strength and Resilience. *ACS Nano*, **2017**, 11, 6817-6824	16.7	214
200	MXene/graphene hybrid fibers for high performance flexible supercapacitors. *Journal of Materials Chemistry A*, **2017**, 5, 22113-22119	13	212
199	Direct 3D Printing of Ultralight Graphene Oxide Aerogel Microlattices. *Advanced Functional Materials*, **2018**, 28, 1707024	15.6	198
198	AlOOH-reduced graphene oxide nanocomposites: one-pot hydrothermal synthesis and their enhanced electrochemical activity for heavy metal ions. *ACS Applied Materials & Interfaces*, **2012**, 4, 4672-82	9.5	194
197	A Highly Efficient Metal-Free Oxygen Reduction Electrocatalyst Assembled from Carbon Nanotubes and Graphene. *Advanced Materials*, **2016**, 28, 4606-13	24	178
196	Porous Graphene Microflowers for High-Performance Microwave Absorption. *Nano-Micro Letters*, **2018**, 10, 26	19.5	173
195	Recent Progress on Electrocatalyst and Photocatalyst Design for Nitrogen Reduction. *Small Methods*, **2019**, 3, 1800388	12.8	169
194	Graphene fiber-based asymmetric micro-supercapacitors. *Journal of Materials Chemistry A*, **2014**, 2, 9736-9743	13	156
193	Multifunctional non-woven fabrics of interfused graphene fibres. *Nature Communications*, **2016**, 7, 13684	17.4	156
192	Graphene-based single fiber supercapacitor with a coaxial structure. *Nanoscale*, **2015**, 7, 9399-404	7.7	155

191	Transparent and flexible thin films of ZnO-polystyrene nanocomposite for UV-shielding applications. *Journal of Materials Chemistry*, **2010**, 20, 1594		153
190	Enabling Visible-Light-Driven Selective CO Reduction by Doping Quantum Dots: Trapping Electrons and Suppressing H Evolution. *Angewandte Chemie - International Edition*, **2018**, 57, 16447-16451	16.4	153
189	Wet-Spun Continuous Graphene Films. *Chemistry of Materials*, **2014**, 26, 6786-6795	9.6	149
188	Flexible high performance wet-spun graphene fiber supercapacitors. *RSC Advances*, **2013**, 3, 23957	3.7	137
187	Highly stretchable carbon aerogels. *Nature Communications*, **2018**, 9, 881	17.4	136
186	Wood-based straightway channel structure for high performance microwave absorption. *Carbon*, **2017**, 124, 492-498	10.4	133
185	A Review on Graphene Fibers: Expectations, Advances, and Prospects. *Advanced Materials*, **2020**, 32, e1902664	24	126
184	Synergistic effect of graphene and carbon nanotube for high-performance electromagnetic interference shielding films. *Carbon*, **2018**, 133, 316-322	10.4	120
183	High-Quality Graphene Microflower Design for High-Performance Li-S and Al-Ion Batteries. *Advanced Energy Materials*, **2017**, 7, 1700051	21.8	117
182	Superb Electrically Conductive Graphene Fibers via Doping Strategy. *Advanced Materials*, **2016**, 28, 7941-7947	24	116
181	Graphene and Other 2D Colloids: Liquid Crystals and Macroscopic Fibers. *Advanced Materials*, **2017**, 29, 1606794	24	101
180	Lyotropic Liquid Crystal of Polyacrylonitrile-Grafted Graphene Oxide and Its Assembled Continuous Strong Nacre-Mimetic Fibers. *Macromolecules*, **2013**, 46, 6931-6941	5.5	101
179	Wet-spinning of continuous montmorillonite-graphene fibers for fire-resistant lightweight conductors. *ACS Nano*, **2015**, 9, 5214-22	16.7	100
178	Graphene nanosheets decorated with Pd, Pt, Au, and Ag nanoparticles: Synthesis, characterization, and catalysis applications. *Science China Chemistry*, **2011**, 54, 397-404	7.9	100
177	Wet-Spun Superelastic Graphene Aerogel Millispheres with Group Effect. *Advanced Materials*, **2017**, 29, 1701482	24	99
176	Bioinspired design and macroscopic assembly of poly(vinyl alcohol)-coated graphene into kilometers-long fibers. *Nanoscale*, **2013**, 5, 4370-8	7.7	98
175	Multifunctional, supramolecular, continuous artificial nacre fibres. *Scientific Reports*, **2012**, 2, 767	4.9	96
174	Highly Stretchable Graphene Fibers with Ultrafast Electrothermal Response for Low-Voltage Wearable Heaters. *Advanced Electronic Materials*, **2017**, 3, 1600425	6.4	94

173	Graphene aerogel films with expansion enhancement effect of high-performance electromagnetic interference shielding. *Carbon*, **2018**, 135, 44-51	10.4	92
172	Millimeter-sized MgAl-LDH nanoflake impregnated magnetic alginate beads (LDH-n-MABs): a novel bio-based sorbent for the removal of fluoride in water. *Journal of Materials Chemistry A*, **2014**, 2, 2119-2128	13	90
171	Supramolecule-mediated synthesis of MoS2/reduced graphene oxide composites with enhanced electrochemical performance for reversible lithium storage. *Journal of Materials Chemistry A*, **2015**, 3, 6884-6893	13	89
170	Hydrothermally Activated Graphene Fiber Fabrics for Textile Electrodes of Supercapacitors. *ACS Nano*, **2017**, 11, 11056-11065	16.7	87
169	High-efficiency electromagnetic interference shielding realized in nacre-mimetic graphene/polymer composite with extremely low graphene loading. *Carbon*, **2020**, 157, 570-577	10.4	85
168	Low-cost AlCl3/Et3NHCl electrolyte for high-performance aluminum-ion battery. *Energy Storage Materials*, **2019**, 17, 38-45	19.4	84
167	Liquid crystal self-templating approach to ultrastrong and tough biomimic composites. *Scientific Reports*, **2013**, 3, 2374	4.9	80
166	Click chemistry approach to functionalize two-dimensional macromolecules of graphene oxide nanosheets. *Nano-Micro Letters*, **2010**, 2, 177-183	19.5	79
165	High-density and hetero-functional group engineering of segmented hyperbranched polymers via click chemistry. *Polymer Chemistry*, **2013**, 4, 1774-1787	4.9	78
164	Water-Soluble and Clickable Segmented Hyperbranched Polymers for Multifunctionalization and Novel Architecture Construction. *Macromolecules*, **2012**, 45, 4966-4977	5.5	74
163	Hydriding Pd cocatalysts: An approach to giant enhancement on photocatalytic CO2 reduction into CH4. *Nano Research*, **2017**, 10, 3396-3406	10	72
162	Oxide Film Efficiently Suppresses Dendrite Growth in Aluminum-Ion Battery. *ACS Applied Materials & Interfaces*, **2017**, 9, 22628-22634	9.5	72
161	A Broadband Fluorographene Photodetector. *Advanced Materials*, **2017**, 29, 1700463	24	72
160	Wet-spun, porous, orientational graphene hydrogel films for high-performance supercapacitor electrodes. *Nanoscale*, **2015**, 7, 4080-7	7.7	72
159	Macroscopic assembled, ultrastrong and H(2)SO(4)-resistant fibres of polymer-grafted graphene oxide. *Scientific Reports*, **2013**, 3, 3164	4.9	72
158	General Avenue to Multifunctional Aqueous Nanocrystals Stabilized by Hyperbranched Polyglycerol. *Chemistry of Materials*, **2011**, 23, 1461-1470	9.6	66
157	Crystal phase engineering on photocatalytic materials for energy and environmental applications. *Nano Research*, **2019**, 12, 2031-2054	10	66
156	Sequential click synthesis of hyperbranched polymersvia the A2 + CB2 approach. *Polymer Chemistry*, **2011**, 2, 2175	4.9	63

155	Chemically doped macroscopic graphene fibers with significantly enhanced thermoelectric properties. *Nano Research*, **2018**, 11, 741-750	10	59
154	Boosting Lithium Storage Properties of MOF Derivatives through a Wet-Spinning Assembled Fiber Strategy. *Chemistry - A European Journal*, **2018**, 24, 13792-13799	4.8	55
153	Hierarchical Porous SWCNT Stringed Carbon Polyhedrons and PSS Threaded MOF Bilayer Membrane for Efficient Solar Vapor Generation. *Small*, **2019**, 15, e1900354	11	53
152	Cyclodextrin-Capped Polyrotaxanes: One-Pot Facile Synthesis via Click Chemistry and Use as Templates for Platinum Nanowires. *Macromolecules*, **2010**, 43, 2252-2260	5.5	53
151	Efficient Grafting of Hyperbranched Polyglycerol from Hydroxyl-Functionalized Multiwalled Carbon Nanotubes by Surface-Initiated Anionic Ring-Opening Polymerization. *Macromolecular Chemistry and Physics*, **2009**, 210, 1011-1018	2.6	50
150	Functionalization of carbon nanotubes and other nanocarbons by azide chemistry. *Nano-Micro Letters*, **2010**, 2, 213-226	19.5	48
149	Mass production of graphene nanoscrolls and their application in high rate performance supercapacitors. *Nanoscale*, **2016**, 8, 1413-20	7.7	47
148	Dry spinning approach to continuous graphene fibers with high toughness. *Nanoscale*, **2017**, 9, 12335-12342	7.7	47
147	Fast and scalable production of hyperbranched polythioether-ynes by a combination of thiol-halogen click-like coupling and thiol-yne click polymerization. *Polymer Chemistry*, **2012**, 3, 1918-1925	4.9	46
146	Hydroplastic foaming of graphene aerogels and artificially intelligent tactile sensors. *Science Advances*, **2020**, 6,	14.3	46
145	Solution processible hyperbranched inverse-vulcanized polymers as new cathode materials in Li–S batteries. *Polymer Chemistry*, **2015**, 6, 973-982	4.9	45
144	Superlight, Mechanically Flexible, Thermally Superinsulating, and Antifrosting Anisotropic Nanocomposite Foam Based on Hierarchical Graphene Oxide Assembly. *ACS Applied Materials & Interfaces*, **2017**, 9, 44010-44017	9.5	45
143	Rapid roll-to-roll production of graphene films using intensive Joule heating. *Carbon*, **2019**, 155, 462-468	10.4	44
142	Design of atomically dispersed catalytic sites for photocatalytic CO reduction. *Nanoscale*, **2019**, 11, 11064-11070	7.7	44
141	Commercial expanded graphite as high-performance cathode for low-cost aluminum-ion battery. *Carbon*, **2019**, 148, 134-140	10.4	43
140	Facile synthesis and self-assembly of multihetero-arm hyperbranched polymer brushes. *Soft Matter*, **2009**, 5, 4788	3.6	43
139	Wet-spinning of ternary synergistic coaxial fibers for high performance yarn supercapacitors. *Journal of Materials Chemistry A*, **2017**, 5, 22489-22494	13	42
138	Tri-high designed graphene electrodes for long cycle-life supercapacitors with high mass loading. *Energy Storage Materials*, **2019**, 17, 349-357	19.4	42

137	Hyperbranched polymers meet colloid nanocrystals: a promising avenue to multifunctional, robust nanohybrids. *Colloid and Polymer Science*, **2011**, 289, 1299-1320	2.4	42
136	Fast bulk click polymerization approach to linear and hyperbranched alternating multiblock copolymers. *Polymer Chemistry*, **2013**, 4, 542-549	4.9	41
135	Large-area potassium-doped highly conductive graphene films for electromagnetic interference shielding. *Nanoscale*, **2017**, 9, 18613-18618	7.7	41
134	Sequentially hetero-functional, topological polymers by step-growth thiol-yne approach. *Scientific Reports*, **2014**, 4, 4387	4.9	40
133	Systematic characterization of transport and thermoelectric properties of a macroscopic graphene fiber. *Nano Research*, **2016**, 9, 3536-3546	10	40
132	Millisecond Response of Shape Memory Polymer Nanocomposite Aerogel Powered by Stretchable Graphene Framework. *ACS Nano*, **2019**, 13, 5549-5558	16.7	39
131	Continuous crystalline graphene papers with gigapascal strength by intercalation modulated plasticization. *Nature Communications*, **2020**, 11, 2645	17.4	39
130	Amphibious polymer-functionalized CdTe quantum dots: Synthesis, thermo-responsive self-assembly, and photoluminescent properties. *Journal of Materials Chemistry*, **2009**, 19, 5655		38
129	Recent advances in engineering active sites for photocatalytic CO reduction. *Nanoscale*, **2020**, 12, 12196-12209	7.7	37
128	Surface acoustic wave humidity sensors based on uniform and thickness controllable graphene oxide thin films formed by surface tension. *Microsystems and Nanoengineering*, **2019**, 5, 36	7.7	37
127	Altering Hydrogenation Pathways in Photocatalytic Nitrogen Fixation by Tuning Local Electronic Structure of Oxygen Vacancy with Dopant. *Angewandte Chemie - International Edition*, **2021**, 60, 16085-16092	16.4	37
126	Effect of flake size on the mechanical properties of graphene aerogels prepared by freeze casting. *RSC Advances*, **2017**, 7, 33600-33605	3.7	36
125	Sheet Collapsing Approach for Rubber-like Graphene Papers. *ACS Nano*, **2017**, 11, 8092-8102	16.7	36
124	Experimental Guidance to Graphene Macroscopic Wet-Spun Fibers, Continuous Papers, and Ultralightweight Aerogels. *Chemistry of Materials*, **2017**, 29, 319-330	9.6	36
123	Superconducting Continuous Graphene Fibers via Calcium Intercalation. *ACS Nano*, **2017**, 11, 4301-4306	16.7	35
122	A novel wet-spinning method of manufacturing continuous bio-inspired composites based on graphene oxide and sodium alginate. *Nano Research*, **2016**, 9, 735-744	10	35
121	Monolithic Neat Graphene Oxide Aerogel for Efficient Catalysis of S -ϕ Acetyl Migration. *ACS Catalysis*, **2015**, 5, 3387-3392	13.1	34
120	Low-Resistance Porous Nanocellular MnSe Electrodes for High-Performance All-Solid-State Battery-Supercapacitor Hybrid Devices. *Advanced Materials Technologies*, **2018**, 3, 1800074	6.8	34

119	Printed aerogels: chemistry, processing, and applications. *Chemical Society Reviews*, **2021**, 50, 3842-3888	58.5	34
118	Artificial Trees for Artificial Photosynthesis: Construction of Dendrite-Structured Fe2O3/g-C3N4 Z-Scheme System for Efficient CO2 Reduction into Solar Fuels. *ACS Applied Energy Materials*, **2020**, 3, 6561-6572	6.1	32
117	Dendritic molecular brushes: synthesis via sequential RAFT polymerization and cage effect for fluorophores. *Polymer Chemistry*, **2013**, 4, 4450	4.9	32
116	Highly Crystalline Graphene Fibers with Superior Strength and Conductivities by Plasticization Spinning. *Advanced Functional Materials*, **2020**, 30, 2006584	15.6	31
115	A Mini Review on Nanocarbon-Based 1D Macroscopic Fibers: Assembly Strategies and Mechanical Properties. *Nano-Micro Letters*, **2017**, 9, 51	19.5	29
114	Scalable Synthesis of Positively Charged Sequence-Defined Functional Polymers. *Journal of the American Chemical Society*, **2019**, 141, 4541-4546	16.4	28
113	Ultrastiff, Strong, and Highly Thermally Conductive Crystalline Graphitic Films with Mixed Stacking Order. *Advanced Materials*, **2019**, 31, e1903039	24	27
112	High rate capability supercapacitors assembled from wet-spun graphene films with a CaCO3 template. *Journal of Materials Chemistry A*, **2015**, 3, 1890-1895	13	26
111	Redissolution of Flower-Shaped Graphene Oxide Powder with High Density. *ACS Applied Materials & Interfaces*, **2016**, 8, 8000-7	9.5	26
110	The electrophilic effect of thiol groups on thiol-yne thermal click polymerization for hyperbranched polythioether. *Polymer Chemistry*, **2015**, 6, 3747-3753	4.9	25
109	Simultaneous photoluminescence import and mechanical enhancement of polymer films using silica-hybridized quantum dots. *Journal of Materials Chemistry*, **2010**, 20, 5675		25
108	Piezoresistive effect of superelastic graphene aerogel spheres. *Carbon*, **2020**, 158, 418-425	10.4	25
107	Water-Salt Oligomers Enable Supersoluble Electrolytes for High-Performance Aqueous Batteries. *Advanced Materials*, **2021**, 33, e2007470	24	25
106	Handedness-controlled and solvent-driven actuators with twisted fibers. *Materials Horizons*, **2019**, 6, 1207-1214	14.4	24
105	Ion Diffusion-Directed Assembly Approach to Ultrafast Coating of Graphene Oxide Thick Multilayers. *ACS Nano*, **2017**, 11, 9663-9670	16.7	23
104	Exquisite design of porous carbon microtubule-scaffolding hierarchical InO-ZnInS heterostructures toward efficient photocatalytic conversion of CO into CO. *Nanoscale*, **2020**, 12, 14676-14681	7.7	22
103	Ultrathick and highly thermally conductive graphene films by self-fusion. *Carbon*, **2020**, 167, 249-255	10.4	22
102	Capacitive charge storage enables an ultrahigh cathode capacity in aluminum-graphene battery. *Journal of Energy Chemistry*, **2020**, 45, 40-44	12	22

101	Continuous fabrication of the graphene-confined polypyrrole film for cycling stable supercapacitors. *Journal of Materials Chemistry A*, **2017**, 5, 8255-8260	13	21
100	Click Chemistry Approach to Rhodamine B-Capped Polyrotaxanes and their Unique Fluorescence Properties. *Macromolecular Chemistry and Physics*, **2009**, 210, 1697-1708	2.6	21
99	Breathable and Flexible Polymer Membranes with Mechanoresponsive Electric Resistance. *Advanced Functional Materials*, **2020**, 30, 1907555	15.6	21
98	Environmentally stable macroscopic graphene films with specific electrical conductivity exceeding metals. *Carbon*, **2020**, 156, 205-211	10.4	21
97	Ultralight graphene micro-popcorns for multifunctional composite applications. *Carbon*, **2018**, 139, 545-555	10.4	20
96	Highly conductive porous graphene/sulfur composite ribbon electrodes for flexible lithium-sulfur batteries. *Nanoscale*, **2018**, 10, 21132-21141	7.7	20
95	Wet-spun poly(ionic liquid)-graphene hybrid fibers for high performance all-solid-state flexible supercapacitors. *Journal of Energy Chemistry*, **2019**, 34, 104-110	12	19
94	Artificial Bicontinuous Laminate Synergistically Reinforces and Toughens Dilute Graphene Composites. *ACS Nano*, **2018**, 12, 11236-11243	16.7	19
93	Fabrication of Nitrogen-Doped Graphene Decorated with Organophosphor and Lanthanum toward High-Performance ABS Nanocomposites. *ACS Applied Nano Materials*, **2018**, 1, 3204-3213	5.6	18
92	Self-Adaptive All-In-One Delivery Chip for Rapid Skin Nerves Regeneration by Endogenous Mesenchymal Stem Cells. *Advanced Functional Materials*, **2020**, 30, 2001751	15.6	18
91	Enabling Visible-Light-Driven Selective CO2 Reduction by Doping Quantum Dots: Trapping Electrons and Suppressing H2 Evolution. *Angewandte Chemie*, **2018**, 130, 16685-16689	3.6	18
90	Artificial colloidal liquid metacrystals by shearing microlithography. *Nature Communications*, **2019**, 10, 4111	17.4	17
89	Interlayer crosslinking to conquer the stress relaxation of graphene laminated materials. *Materials Horizons*, **2018**, 5, 1112-1119	14.4	17
88	Reversible fusion and fission of graphene oxide-based fibers. *Science*, **2021**, 372, 614-617	33.3	17
87	A density gradient of basic fibroblast growth factor guides directional migration of vascular smooth muscle cells. *Colloids and Surfaces B: Biointerfaces*, **2014**, 117, 290-5	6	16
86	Conformational Phase Map of Two-Dimensional Macromolecular Graphene Oxide in Solution. *Matter*, **2020**, 3, 230-245	12.7	16
85	A Review on Graphene Oxide Two-dimensional Macromolecules: from Single Molecules to Macro-assembly. *Chinese Journal of Polymer Science (English Edition)*, **2021**, 39, 267-308	3.5	16
84	Multifunctional Bicontinuous Composite Foams with Ultralow Percolation Thresholds. *ACS Applied Materials & Interfaces*, **2018**, 10, 20806-20815	9.5	16

83	Three-dimensional printing of graphene-based materials for energy storage and conversion. *SusMat*, **2021**, 1, 304-323		16
82	A High-Performance Direct Methanol Fuel Cell Technology Enabled by Mediating High-Concentration Methanol through a Graphene Aerogel. *Small Methods*, **2018**, 2, 1800138	12.8	15
81	Total Basin Discharge From GRACE and Water Balance Method for the Yarlung Tsangpo River Basin, Southwestern China. *Journal of Geophysical Research D: Atmospheres*, **2019**, 124, 7617-7632	4.4	15
80	Promising Dendritic Materials: An Introduction to Hyperbranched Polymers **2011**, 1-26		15
79	Liquid crystalline 3D printing for superstrong graphene microlattices with high density. *Carbon*, **2020**, 159, 166-174	10.4	14
78	Wrinkle-stabilized metal-graphene hybrid fibers with zero temperature coefficient of resistance. *Nanoscale*, **2017**, 9, 12178-12188	7.7	13
77	Miktoarms hyperbranched polymer brushes: One-step fast synthesis by parallel click chemistry and hierarchical self-assembly. *Science China Chemistry*, **2010**, 53, 2461-2471	7.9	13
76	Functionalization of wet-spun graphene films using aminophenol molecules for high performance supercapacitors. *Materials Chemistry Frontiers*, **2018**, 2, 2313-2319	7.8	13
75	High porosity microspheres with functional groups synthesized by thiol-yne click suspension polymerization. *Polymer Chemistry*, **2016**, 7, 7400-7407	4.9	11
74	Novel triethylamine catalyzed S -O acetyl migration reaction to generate candidate thiols for construction of topological and functional sulfur-containing polymers. *RSC Advances*, **2015**, 5, 5674-5679	3.7	11
73	The Origin of the Sheet Size Predicament in Graphene Macroscopic Papers. *ACS Nano*, **2021**, 15, 4824-4836	16.7	11
72	Potential evapotranspiration changes in Lancang River Basin and Yarlung Zangbo River Basin, southwest China. *Hydrological Sciences Journal*, **2018**, 63, 1653-1668	3.5	11
71	Anisotropic Thermal Transport in Spray-Coated Single-Phase Two-Dimensional Materials: Synthetic Clay Versus Graphene Oxide. *ACS Applied Materials & Interfaces*, **2020**, 12, 18785-18791	9.5	10
70	Nonsphere Drop Impact Assembly of Graphene Oxide Liquid Crystals. *ACS Nano*, **2019**, 13, 8382-8391	16.7	10
69	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. *International Journal of Climatology*, **2020**, 40, 887-907	3.5	10
68	Bidirectional mid-infrared communications between two identical macroscopic graphene fibres. *Nature Communications*, **2020**, 11, 6368	17.4	9
67	Aerogels: Multifunctional, Ultra-Flyweight, Synergistically Assembled Carbon Aerogels (Adv. Mater. 18/2013). *Advanced Materials*, **2013**, 25, 2632-2632	24	9
66	Directional migration of vascular smooth muscle cells guided by synergetic surface gradient and chemical pattern of poly(ethylene glycol) brushes. *Journal of Bioactive and Compatible Polymers*, **2013**, 28, 605-620	2	9

65	Heavy Water Enables High-Voltage Aqueous Electrochemistry via the Deuterium Isotope Effect. *Journal of Physical Chemistry Letters*, **2020**, 11, 303-310	6.4	9
64	Group interval-controlled polymers: an example of epoxy functional polymers via step-growth thiol-yne polymerization. *Polymer Chemistry*, **2016**, 7, 6202-6210	4.9	8
63	Conformational Scaling Relations of Two-Dimensional Macromolecular Graphene Oxide in Solution. *Macromolecules*, **2020**, 53, 10421-10430	5.5	8
62	High-Speed Blow Spinning of Neat Graphene Fibrous Materials. *Nano Letters*, **2021**, 21, 5116-5125	11.5	8
61	Digital Programming Graphene Oxide Liquid Crystalline Hybrid Hydrogel by Shearing Microlithography. *ACS Nano*, **2020**, 14, 2336-2344	16.7	7
60	Investigating the uncertainty and transferability of parameters in SWAT model under climate change. *Hydrological Sciences Journal*, **2016**, 1-17	3.5	7
59	Highly oxidized graphene with enhanced fluorescence and its direct fluorescence visualization. *Science China Chemistry*, **2014**, 57, 605-614	7.9	7
58	Twist-spinning assembly of robust ultralight graphene fibers with hierarchical structure and multi-functions. *Carbon*, **2020**, 158, 157-162	10.4	7
57	Hydroplastic Micromolding of 2D Sheets. *Advanced Materials*, **2021**, 33, e2008116	24	7
56	Highly conductive graphene film with high-temperature stability for electromagnetic interference shielding. *Carbon*, **2021**, 179, 202-208	10.4	7
55	Polyacrylonitrile-derived thermally conductive graphite film via graphene template effect. *Carbon*, **2021**, 180, 197-203	10.4	7
54	Carbon Nanotubes Loaded on Graphene Microfolds as Efficient Bifunctional Electrocatalysts for the Oxygen Reduction and Oxygen Evolution Reactions. *ChemCatChem*, **2017**, 9, 4520-4528	5.2	7
53	A polyimide-pyrolyzed carbon waste approach for the scalable and controlled electrochemical preparation of size-tunable graphene. *Nanoscale*, **2020**, 12, 11971-11978	7.7	6
52	Reversible photoswitching self-assembly of azobenzene-functionalized hyperbranched polyglycerol induced by host-guest chemistry. *Science China Chemistry*, **2012**, 55, 604-611	7.9	6
51	Applications of Hyperbranched Polymers in Coatings, as Additives, and in Nanotechnology **2011**, 415-440		6
50	Self-Condensing Vinyl Polymerization **2011**, 139-174		6
49	Biological and Medical Applications of Hyperbranched Polymers **2011**, 387-413		6
48	Multifunctional Macroassembled Graphene Nanofilms with High Crystallinity. *Advanced Materials*, **2021**, 33, e2104195	24	6

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