Liangti Qu

List of Publications by Year
in descending order

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338 papers	41,140 citations	2795 94 h-index	2675 193 g-index
351 all docs	351 docs citations	351 times ranked	34188 citing authors

#	Article	IF	Citations
1	Nitrogen-Doped Graphene as Efficient Metal-Free Electrocatalyst for Oxygen Reduction in Fuel Cells. ACS Nano, 2010, 4, 1321-1326.	7.3	3,658
2	Metal-Free Catalysts for Oxygen Reduction Reaction. Chemical Reviews, 2015, 115, 4823-4892.	23.0	2,083
3	Nitrogen-Doped Graphene Quantum Dots with Oxygen-Rich Functional Groups. Journal of the American Chemical Society, 2012, 134, 15-18.	6.6	1,832
4	An Electrochemical Avenue to Greenâ€Luminescent Graphene Quantum Dots as Potential Electronâ€Acceptors for Photovoltaics. Advanced Materials, 2011, 23, 776-780.	11.1	1,466
5	Highly efficient solar vapour generation via hierarchically nanostructured gels. Nature Nanotechnology, 2018, 13, 489-495.	15.6	1,356
6	Allâ€Graphene Coreâ€Sheath Microfibers for Allâ€Solidâ€State, Stretchable Fibriform Supercapacitors and Wearable Electronic Textiles. Advanced Materials, 2013, 25, 2326-2331.	11.1	1,007
7	Vertically Aligned Graphene Sheets Membrane for Highly Efficient Solar Thermal Generation of Clean Water. ACS Nano, 2017, 11, 5087-5093.	7.3	871
8	Atomically Thin Mesoporous Nanomesh of Graphitic C₃N₄ for High-Efficiency Photocatalytic Hydrogen Evolution. ACS Nano, 2016, 10, 2745-2751.	7.3	866
9	Graphene quantum dots: an emerging material for energy-related applications and beyond. Energy and Environmental Science, 2012, 5, 8869.	15.6	790
10	N,Pâ€Codoped Carbon Networks as Efficient Metalâ€free Bifunctional Catalysts for Oxygen Reduction and Hydrogen Evolution Reactions. Angewandte Chemie - International Edition, 2016, 55, 2230-2234.	7.2	748
11	Highly Compressionâ€Tolerant Supercapacitor Based on Polypyrroleâ€mediated Graphene Foam Electrodes. Advanced Materials, 2013, 25, 591-595.	11.1	745
12	A Versatile, Ultralight, Nitrogenâ€Doped Graphene Framework. Angewandte Chemie - International Edition, 2012, 51, 11371-11375.	7.2	731
13	Graphene-based smart materials. Nature Reviews Materials, 2017, 2, .	23.3	569
14	Facile Fabrication of Light, Flexible and Multifunctional Graphene Fibers. Advanced Materials, 2012, 24, 1856-1861.	11.1	524
15	Graphitic Carbon Nitride Nanoribbons: Grapheneâ€Assisted Formation and Synergic Function for Highly Efficient Hydrogen Evolution. Angewandte Chemie - International Edition, 2014, 53, 13934-13939.	7.2	470
16	A Graphiticâ€C₃N₄ â€œSeaweedâ€•Architecture for Enhanced Hydrogen Evolution. Angewandte Chemie - International Edition, 2015, 54, 11433-11437.	7.2	433
17	Direct Power Generation from a Graphene Oxide Film under Moisture. Advanced Materials, 2015, 27, 4351-4357.	11.1	418
18	Reduced Graphene Oxide Membranes for Ultrafast Organic Solvent Nanofiltration. Advanced Materials, 2016, 28, 8669-8674.	11.1	349

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19	Efficient Metalâ€Free Electrocatalysts from Nâ€Doped Carbon Nanomaterials: Monoâ€Doping and Coâ€Doping. Advanced Materials, 2019, 31, e1805121.	11.1	329
20	Textile electrodes woven by carbon nanotubeâ€“graphene hybrid fibers for flexible electrochemical capacitors. Nanoscale, 2013, 5, 3428.	2.8	307
21	Newlyâ€Designed Complex Ternary Pt/PdCu Nanoboxes Anchored on Threeâ€Dimensional Graphene Framework for Highly Efficient Ethanol Oxidation. Advanced Materials, 2012, 24, 5493-5498.	11.1	301
22	Graphene Fibers with Predetermined Deformation as Moistureâ€Triggered Actuators and Robots. Angewandte Chemie - International Edition, 2013, 52, 10482-10486.	7.2	294
23	Moistureâ€Activated Torsional Grapheneâ€Fiber Motor. Advanced Materials, 2014, 26, 2909-2913.	11.1	292
24	Highly efficient moisture-enabled electricity generation from graphene oxide frameworks. Energy and Environmental Science, 2016, 9, 912-916.	15.6	289
25	A capacity recoverable zinc-ion micro-supercapacitor. Energy and Environmental Science, 2018, 11, 3367-3374.	15.6	263
26	An Asymmetrically Surface-Modified Graphene Film Electrochemical Actuator. ACS Nano, 2010, 4, 6050-6054.	7.3	242
27	Electrochemical Growth of Polypyrrole Microcontainers. Macromolecules, 2003, 36, 1063-1067.	2.2	234
28	Direct solar steam generation system for clean water production. Energy Storage Materials, 2019, 18, 429-446.	9.5	234
29	One-step preparation of iodine-doped graphitic carbon nitride nanosheets as efficient photocatalysts for visible light water splitting. Journal of Materials Chemistry A, 2015, 3, 4612-4619.	5.2	232
30	Tailored graphene systems for unconventional applications in energy conversion and storage devices. Energy and Environmental Science, 2015, 8, 31-54.	15.6	232
31	Sulfur-doped graphitic carbon nitride decorated with graphene quantum dots for an efficient metal-free electrocatalyst. Journal of Materials Chemistry A, 2015, 3, 1841-1846.	5.2	229
32	N,Pâ€Codoped Carbon Networks as Efficient Metalâ€free Bifunctional Catalysts for Oxygen Reduction and Hydrogen Evolution Reactions. Angewandte Chemie, 2016, 128, 2270-2274.	1.6	224
33	High Rate Production of Clean Water Based on the Combined Photoâ€Electroâ€Thermal Effect of Graphene Architecture. Advanced Materials, 2018, 30, e1706805.	11.1	214
34	Large scale production of biomass-derived N-doped porous carbon spheres for oxygen reduction and supercapacitors. Journal of Materials Chemistry A, 2014, 2, 3317.	5.2	208
35	Interface-mediated hygroelectric generator with an output voltage approaching 1.5 volts. Nature Communications, 2018, 9, 4166.	5.8	208
36	MnO 2 -modified hierarchical graphene fiber electrochemical supercapacitor. Journal of Power Sources, 2014, 247, 32-39.	4.0	207

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37	Functional graphene nanomesh foam. Energy and Environmental Science, 2014, 7, 1913.	15.6	206
38	All-in-one graphene fiber supercapacitor. Nanoscale, 2014, 6, 6448.	2.8	204
39	Electric power generation via asymmetric moisturizing of graphene oxide for flexible, printable and portable electronics. Energy and Environmental Science, 2018, 11, 1730-1735.	15.6	203
40	Spinning fabrication of graphene/polypyrrole composite fibers for all-solid-state, flexible fibriform supercapacitors. Journal of Materials Chemistry A, 2014, 2, 12355.	5.2	199
41	Significant Enhancement of Visible-Light-Driven Hydrogen Evolution by Structure Regulation of Carbon Nitrides. ACS Nano, 2018, 12, 5221-5227.	7.3	194
42	Bilayer of polyelectrolyte films for spontaneous power generation in air up to an integrated 1,000â€‰V output. Nature Nanotechnology, 2021, 16, 811-819.	15.6	193
43	Bubbleâ€Decorated Honeycombâ€Like Graphene Film as Ultrahigh Sensitivity Pressure Sensors. Advanced Functional Materials, 2015, 25, 6545-6551.	7.8	189
44	An efficient polymer moist-electric generator. Energy and Environmental Science, 2019, 12, 972-978.	15.6	189
45	Graphene fiber: a new material platform for unique applications. NPG Asia Materials, 2014, 6, e113-e113.	3.8	175
46	Three-dimensional graphitic carbon nitride functionalized graphene-based high-performance supercapacitors. Journal of Materials Chemistry A, 2015, 3, 6761-6766.	5.2	173
47	Graphene/graphitic carbon nitride hybrids for catalysis. Materials Horizons, 2017, 4, 832-850.	6.4	168
48	Graphene Platforms for Smart Energy Generation and Storage. Joule, 2018, 2, 245-268.	11.7	168
49	Preparation of Monolayer MoS2 Quantum Dots using Temporally Shaped Femtosecond Laser Ablation of Bulk MoS2 Targets in Water. Scientific Reports, 2017, 7, 11182.	1.6	167
50	Thermal Efficiency of Solar Steam Generation Approaching 100â€‰% through Capillary Water Transport. Angewandte Chemie - International Edition, 2019, 58, 19041-19046.	7.2	167
51	Graphene quantum dotsâ€“three-dimensional graphene composites for high-performance supercapacitors. Physical Chemistry Chemical Physics, 2014, 16, 19307-19313.	1.3	164
52	Plant leaves inspired sunlight-driven purifier for high-efficiency clean water production. Nature Communications, 2019, 10, 1512.	5.8	160
53	Highâ€Density Monolith of Nâ€Doped Holey Graphene for Ultrahigh Volumetric Capacity of Liâ€Ion Batteries. Advanced Energy Materials, 2016, 6, 1502100.	10.2	158
54	Spontaneous Reduction and Assembly of Graphene oxide into Three-Dimensional Graphene Network on Arbitrary Conductive Substrates. Scientific Reports, 2013, 3, 2065.	1.6	157

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55	Graphitic Carbon Nitride/Nitrogenâ€Rich Carbon Nanofibers: Highly Efficient Photocatalytic Hydrogen Evolution without Cocatalysts. Angewandte Chemie - International Edition, 2016, 55, 10849-10853.	7.2	157
56	Preparation of polypyrrole microstructures by direct electrochemical oxidation of pyrrole in an aqueous solution of camphorsulfonic acid. Journal of Electroanalytical Chemistry, 2004, 561, 149-156.	1.9	154
57	Facile production of ultrathin graphitic carbon nitride nanoplatelets for efficient visible-light water splitting. Nano Research, 2015, 8, 1718-1728.	5.8	154
58	One Single Graphene Oxide Film for Responsive Actuation. ACS Nano, 2016, 10, 9529-9535.	7.3	151
59	All-region-applicable, continuous power supply of graphene oxide composite. Energy and Environmental Science, 2019, 12, 1848-1856.	15.6	150
60	High throughput of clean water excluding ions, organic media, and bacteria from defect-abundant graphene aerogel under sunlight. Nano Energy, 2018, 46, 415-422.	8.2	149
61	Self-powered wearable graphene fiber for information expression. Nano Energy, 2017, 32, 329-335.	8.2	148
62	Three-dimensional water evaporation on a macroporous vertically aligned graphene pillar array under one sun. Journal of Materials Chemistry A, 2018, 6, 15303-15309.	5.2	146
63	Meshâ€onâ€Mesh Graphiticâ€C₃N₄@Graphene for Highly Efficient Hydrogen Evolution. Advanced Functional Materials, 2017, 27, 1606352.	7.8	145
64	A Largeâ€Area, Flexible, and Flameâ€Retardant Graphene Paper. Advanced Functional Materials, 2016, 26, 1470-1476.	7.8	144
65	Spontaneous power source in ambient air of a well-directionally reduced graphene oxide bulk. Energy and Environmental Science, 2018, 11, 2839-2845.	15.6	144
66	Electric Power Generation through the Direct Interaction of Pristine Grapheneâ€Oxide with Water Molecules. Small, 2018, 14, e1704473.	5.2	138
67	Pristine Titanium Carbide MXene Films with Environmentally Stable Conductivity and Superior Mechanical Strength. Advanced Functional Materials, 2020, 30, 1906996.	7.8	138
68	Large-Scale Spinning Assembly of Neat, Morphology-Defined, Graphene-Based Hollow Fibers. ACS Nano, 2013, 7, 2406-2412.	7.3	137
69	A green one-arrow-two-hawks strategy for nitrogen-doped carbon dots as fluorescent ink and oxygen reduction electrocatalysts. Journal of Materials Chemistry A, 2014, 2, 6320.	5.2	136
70	Stimulus-responsive graphene systems towards actuator applications. Energy and Environmental Science, 2013, 6, 3520.	15.6	130
71	Unraveling the Charge Storage Mechanism of Ti₃C₂T_x MXene Electrode in Acidic Electrolyte. ACS Energy Letters, 2020, 5, 2873-2880.	8.8	129
72	Scalable Preparation of Multifunctional Fire-Retardant Ultralight Graphene Foams. ACS Nano, 2016, 10, 1325-1332.	7.3	126

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73	Highly Efficient Clean Water Production from Contaminated Air with a Wide Humidity Range. Advanced Materials, 2020, 32, e1905875.	11.1	123
74	Thermal Efficiency of Solar Steam Generation Approaching 100â€‰% through Capillary Water Transport. Angewandte Chemie, 2019, 131, 19217-19222.	1.6	122
75	Recent progress in grapheneâ€based electrodes for flexible batteries. InformaÄnÃ-MateriÃ¡ly, 2020, 2, 509-526.	8.5	122
76	Structure Design and Composition Engineering of Carbonâ€Based Nanomaterials for Lithium Energy Storage. Advanced Energy Materials, 2020, 10, 1903030.	10.2	122
77	Janus-interface engineering boosting solar steam towards high-efficiency water collection. Energy and Environmental Science, 2021, 14, 5330-5338.	15.6	122
78	A Microstructured Graphene/Poly(Nâ€isopropylacrylamide) Membrane for Intelligent Solar Water Evaporation. Angewandte Chemie - International Edition, 2018, 57, 16343-16347.	7.2	121
79	Spontaneous, Straightforward Fabrication of Partially Reduced Graphene Oxideâ€“Polypyrrole Composite Films for Versatile Actuators. ACS Nano, 2016, 10, 4735-4741.	7.3	120
80	Reconstruction of Inherent Graphene Oxide Liquid Crystals for Large-Scale Fabrication of Structure-Intact Graphene Aerogel Bulk toward Practical Applications. ACS Nano, 2018, 12, 11407-11416.	7.3	120
81	Robust graphene composite films for multifunctional electrochemical capacitors with an ultrawide range of areal mass loading toward high-rate frequency response and ultrahigh specific capacitance. Energy and Environmental Science, 2018, 11, 559-565.	15.6	119
82	Decoration of graphene network with metalâ€“organic frameworks for enhanced electrochemical capacitive behavior. Carbon, 2014, 78, 231-242.	5.4	118
83	Graphene Oxide Nanoribbon Assembly toward Moistureâ€Powered Information Storage. Advanced Materials, 2017, 29, 1604972.	11.1	118
84	Graphitic Carbon Nitride/Graphene Hybrids as New Active Materials for Energy Conversion and Storage. ChemNanoMat, 2015, 1, 298-318.	1.5	117
85	Rollable, Stretchable, and Reconfigurable Graphene Hygroelectric Generators. Advanced Materials, 2019, 31, e1805705.	11.1	117
86	Stretchable supercapacitor at â^'30 Â°C. Energy and Environmental Science, 2021, 14, 3075-3085.	15.6	114
87	Ultrasensitive Pressure Sensor Based on an Ultralight Sparkling Graphene Block. ACS Applied Materials & Interfaces, 2017, 9, 22885-22892.	4.0	113
88	Hierarchical hole-enhanced 3D graphene assembly for highly efficient capacitive deionization. Carbon, 2018, 129, 95-103.	5.4	112
89	Graphene Microtubings: Controlled Fabrication and Site-Specific Functionalization. Nano Letters, 2012, 12, 5879-5884.	4.5	111
90	Vaporâ€Activated Power Generation on Conductive Polymer. Advanced Functional Materials, 2016, 26, 8784-8792.	7.8	110

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91	Dimension-tailored functional graphene structures for energy conversion and storage. Nanoscale, 2013, 5, 3112.	2.8	101
92	Series of in-fiber graphene supercapacitors for flexible wearable devices. Journal of Materials Chemistry A, 2015, 3, 2547-2551.	5.2	101
93	Large-Scale Production of Flexible, High-Voltage Hydroelectric Films Based on Solid Oxides. ACS Applied Materials & Interfaces, 2019, 11, 30927-30935.	4.0	98
94	An all-cotton-derived, arbitrarily foldable, high-rate, electrochemical supercapacitor. Physical Chemistry Chemical Physics, 2013, 15, 8042.	1.3	97
95	A seamlessly integrated device of micro-supercapacitor and wireless charging with ultrahigh energy density and capacitance. Nature Communications, 2021, 12, 2647.	5.8	97
96	Nitrogenâ€Doped Carbon Nanotube Aerogels for Highâ€Performance ORR Catalysts. Small, 2015, 11, 3903-3908.	5.2	96
97	Highly Efficient Moisture-Triggered Nanogenerator Based on Graphene Quantum Dots. ACS Applied Materials & Interfaces, 2017, 9, 38170-38175.	4.0	96
98	Flexible in-plane graphene oxide moisture-electric converter for touchless interactive panel. Nano Energy, 2018, 45, 37-43.	8.2	96
99	Graphene quantum dots for energy storage and conversion: from fabrication to applications. Materials Chemistry Frontiers, 2020, 4, 421-436.	3.2	96
100	Functionalized Graphitic Carbon Nitride for Metal-free, Flexible and Rewritable Nonvolatile Memory Device via Direct Laser-Writing. Scientific Reports, 2014, 4, 5882.	1.6	94
101	Selfâ€Healing Graphene Oxide Based Functional Architectures Triggered by Moisture. Advanced Functional Materials, 2017, 27, 1703096.	7.8	94
102	Electric power generation using paper materials. Journal of Materials Chemistry A, 2019, 7, 20574-20578.	5.2	94
103	Laser photonic-reduction stamping for graphene-based micro-supercapacitors ultrafast fabrication. Nature Communications, 2020, 11, 6185.	5.8	93
104	Graphene-Based Functional Architectures: Sheets Regulation and Macrostructure Construction toward Actuators and Power Generators. Accounts of Chemical Research, 2017, 50, 1663-1671.	7.6	92
105	Gradient doped polymer nanowire for moistelectric nanogenerator. Nano Energy, 2018, 46, 297-304.	8.2	91
106	Hollow microstructures of polypyrrole doped by poly(styrene sulfonic acid). Journal of Polymer Science Part A, 2004, 42, 3170-3177.	2.5	90
107	Grapheneâ€Based Fibers: Recent Advances in Preparation and Application. Advanced Materials, 2020, 32, e1901979.	11.1	88
108	Hybrid Energy Storage Device: Combination of Zinc-Ion Supercapacitor and Zincâ€“Air Battery in Mild Electrolyte. ACS Applied Materials & Interfaces, 2020, 12, 7239-7248.	4.0	88

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109	Earth-abundant carbon catalysts for renewable generation of clean energy from sunlight and water. Nano Energy, 2017, 41, 367-376.	8.2	87
110	Intelligent multiple-liquid evaporation power generation platform using distinctive Jaboticaba-like carbon nanosphere@TiO‹sub›2‹/sub› nanowires. Journal of Materials Chemistry A, 2019, 7, 6766-6772.	5.2	87
111	Pristine Titanium Carbide MXene Hydrogel Matrix. ACS Nano, 2020, 14, 10471-10479.	7.3	87
112	Three-dimensional grapheneâ€“polypyrrole hybrid electrochemical actuator. Nanoscale, 2012, 4, 7563.	2.8	86
113	Monoatomic-thick graphitic carbon nitride dots on graphene sheets as an efficient catalyst in the oxygen reduction reaction. Nanoscale, 2015, 7, 3035-3042.	2.8	85
114	Solution-Processed Ultraelastic and Strong Air-Bubbled Graphene Foams. Small, 2016, 12, 3229-3234.	5.2	83
115	Maximization of Spatial Charge Density: An Approach to Ultrahigh Energy Density of Capacitive Charge Storage. Angewandte Chemie - International Edition, 2020, 59, 14541-14549.	7.2	83
116	Moist-electric generation. Nanoscale, 2019, 11, 23083-23091.	2.8	82
117	Salty Ice Electrolyte with Superior Ionic Conductivity Towards Lowâ€Temperature Aqueous Zinc Ion Hybrid Capacitors. Advanced Functional Materials, 2021, 31, 2101277.	7.8	81
118	Wearable fiberform hygroelectric generator. Nano Energy, 2018, 53, 698-705.	8.2	80
119	A General and Extremely Simple Remote Approach toward Graphene Bulks with In Situ Multifunctionalization. Advanced Materials, 2016, 28, 3305-3312.	11.1	79
120	Integrated graphene systems by laser irradiation for advanced devices. Nano Today, 2017, 12, 14-30.	6.2	78
121	A Type of 1 nm Molybdenum Carbide Confined within Carbon Nanomesh as Highly Efficient Bifunctional Electrocatalyst. Advanced Functional Materials, 2018, 28, 1705967.	7.8	78
122	A cross-linked polyacrylamide electrolyte with high ionic conductivity for compressible supercapacitors with wide temperature tolerance. Nano Research, 2019, 12, 1199-1206.	5.8	78
123	Emerging Materials for Water-Enabled Electricity Generation. , 2021, 3, 193-209.		78
124	A Graphene Fibriform Responsor for Sensing Heat, Humidity, and Mechanical Changes. Angewandte Chemie - International Edition, 2015, 54, 14951-14955.	7.2	77
125	Chlorine-Doped Graphene Quantum Dots with Enhanced Anti- and Pro-Oxidant Properties. ACS Applied Materials & Interfaces, 2019, 11, 21822-21829.	4.0	77
126	All-pH-Tolerant In-Plane Heterostructures for Efficient Hydrogen Evolution Reaction. ACS Nano, 2021, 15, 11417-11427.	7.3	77

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127	Ultrafast Shaped Laser Induced Synthesis of MXene Quantum Dots/Graphene for Transparent Supercapacitors. Advanced Materials, 2022, 34, e2110013.	11.1	75
128	A powerful approach to functional graphene hybrids for high performance energy-related applications. Energy and Environmental Science, 2014, 7, 3699-3708.	15.6	74
129	Environmentally Responsive Graphene Systems. Small, 2014, 10, 2151-2164.	5.2	73
130	Maskâ€Free Patterning of Highâ€Conductivity Metal Nanowires in Open Air by Spatially Modulated Femtosecond Laser Pulses. Advanced Materials, 2015, 27, 6238-6243.	11.1	73
131	Twoâ€dimensional materials of groupâ€IVA boosting the development of energy storage and conversion. , 2020, 2, 54-71.		73
132	Enhanced stability and separation efficiency of graphene oxide membranes in organic solvent nanofiltration. Journal of Materials Chemistry A, 2018, 6, 19563-19569.	5.2	72
133	Vertically Oriented Graphene Nanoribbon Fibers for High-Volumetric Energy Density All-Solid-State Asymmetric Supercapacitors. Small, 2017, 13, 1700371.	5.2	71
134	An aqueous Znâ€“MnO₂ rechargeable microbattery. Journal of Materials Chemistry A, 2018, 6, 10926-10931.	5.2	69
135	Versatile Graphene Oxide Puttyâ€Like Material. Advanced Materials, 2016, 28, 10287-10292.	11.1	68
136	Laserâ€Assisted Largeâ€Scale Fabrication of Allâ€Solidâ€State Asymmetrical Microâ€Supercapacitor Array. Small, 2018, 14, e1801809.	5.2	68
137	Transparent, self-healing, arbitrary tailorable moist-electric film generator. Nano Energy, 2020, 67, 104238.	8.2	68
138	Moisture adsorption-desorption full cycle power generation. Nature Communications, 2022, 13, 2524.	5.8	67
139	A rationally-designed synergetic polypyrrole/graphene bilayer actuator. Journal of Materials Chemistry, 2012, 22, 4015.	6.7	66
140	Arbitrary waveform AC line filtering applicable to hundreds of volts based on aqueous electrochemical capacitors. Nature Communications, 2019, 10, 2855.	5.8	65
141	Heteroatom substituted and decorated graphene: preparation and applications. Physical Chemistry Chemical Physics, 2015, 17, 32077-32098.	1.3	64
142	Highly Efficient Actuator of Graphene/Polydopamine Uniform Composite Thin Film Driven by Moisture Gradients. Advanced Materials Interfaces, 2016, 3, 1600169.	1.9	64
143	Large-Scale Spinning Approach to Engineering Knittable Hydrogel Fiber for Soft Robots. ACS Nano, 2020, 14, 14929-14938.	7.3	64
144	Crystalline oligopyrene nanowires with multicolored emission. Chemical Communications, 2004, , 2800.	2.2	63

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145	Ultrafast optical response and ablation mechanisms of molybdenum disulfide under intense femtosecond laser irradiation. Light: Science and Applications, 2020, 9, 80.	7.7	63
146	Flexible and wearable graphene/polypyrrole fibers towards multifunctional actuator applications. Electrochemistry Communications, 2013, 35, 49-52.	2.3	60
147	A smart, anti-piercing and eliminating-dendrite lithium metal battery. Nano Energy, 2018, 49, 403-410.	8.2	57
148	Load-tolerant, highly strain-responsive graphene sheets. Journal of Materials Chemistry, 2011, 21, 2057.	6.7	55
149	Direct spinning of fiber supercapacitor. Nanoscale, 2016, 8, 12113-12117.	2.8	55
150	Metal (Ag, Pt)â€“MoS₂ Hybrids Greenly Prepared Through Photochemical Reduction of Femtosecond Laser Pulses for SERS and HER. ACS Sustainable Chemistry and Engineering, 2018, 6, 7704-7714.	3.2	55
151	Spontaneous formation of Cu₂Oâ€“g-C₃N₄coreâ€“shell nanowires for photocurrent and humidity responses. Nanoscale, 2015, 7, 9694-9702.	2.8	54
152	Trash to treasure: converting plastic waste into a useful graphene foil. Nanoscale, 2017, 9, 9089-9094.	2.8	54
153	Laser-Assisted Multiscale Fabrication of Configuration-Editable Supercapacitors with High Energy Density. ACS Nano, 2019, 13, 7463-7470.	7.3	54
154	Controllable Synthesis of Nanosized Amorphous MoS_x Using Temporally Shaped Femtosecond Laser for Highly Efficient Electrochemical Hydrogen Production. Advanced Functional Materials, 2019, 29, 1806229.	7.8	54
155	Sunlightâ€Coordinated Highâ€Performance Moisture Power in Natural Conditions. Advanced Materials, 2022, 34, e2103897.	11.1	54
156	Highly Ordered Graphene Solid: An Efficient Platform for Capacitive Sodium-Ion Storage with Ultrahigh Volumetric Capacity and Superior Rate Capability. ACS Nano, 2019, 13, 9161-9170.	7.3	53
157	Maximizing Energy Storage of Flexible Aqueous Batteries through Decoupling Charge Carriers. Advanced Energy Materials, 2021, 11, 2003982.	10.2	53
158	A self-healing zinc ion battery under -20 Â°C. Energy Storage Materials, 2022, 44, 517-526.	9.5	53
159	Monolithic graphene fibers for solid-phase microextraction. Journal of Chromatography A, 2013, 1320, 27-32.	1.8	52
160	Electrochemical deposition of polyaniline nanosheets mediated by sulfonated polyaniline functionalized graphenes. Journal of Materials Chemistry, 2011, 21, 13978.	6.7	51
161	Efficient room-temperature production of high-quality graphene by introducing removable oxygen functional groups to the precursor. Chemical Science, 2019, 10, 1244-1253.	3.7	51
162	Reduced Graphene Oxideâ€“Based Spectrally Selective Absorber with an Extremely Low Thermal Emittance and High Solar Absorptance. Advanced Science, 2020, 7, 1903125.	5.6	51

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163	Shape-Controllable Gold Nanoparticleâ€“MoS₂ Hybrids Prepared by Tuning Edge-Active Sites and Surface Structures of MoS₂ via Temporally Shaped Femtosecond Pulses. ACS Applied Materials & Interfaces, 2017, 9, 7447-7455.	4.0	50
164	Few-Layer Siloxene as an Electrode for Superior High-Rate Zinc Ion Hybrid Capacitors. ACS Energy Letters, 2021, 6, 1786-1794.	8.8	50
165	InP and Sn:InP based quantum dot sensitized solar cells. Journal of Materials Chemistry A, 2015, 3, 21922-21929.	5.2	49
166	A graphene oxide-mediated polyelectrolyte with high ion-conductivity for highly stretchable and self-healing all-solid-state supercapacitors. Journal of Materials Chemistry A, 2018, 6, 19463-19469.	5.2	49
167	Flexible and high-performance microsupercapacitors with wide temperature tolerance. Nano Energy, 2019, 64, 103938.	8.2	49
168	A Flexible Aqueous Zincâ€“Iodine Microbattery with Unprecedented Energy Density. Advanced Materials, 2022, 34, e2109450.	11.1	49
169	Flexible and integrated supercapacitor with tunable energy storage. Nanoscale, 2017, 9, 12324-12329.	2.8	48
170	Reborn Threeâ€Dimensional Graphene with Ultrahigh Volumetric Desalination Capacity. Advanced Materials, 2021, 33, e2105853.	11.1	48
171	Ultra-high toughness all graphene fibers derived from synergetic effect of interconnected graphene ribbons and graphene sheets. Carbon, 2017, 120, 17-22.	5.4	47
172	Cylindrically Focused Nonablative Femtosecond Laser Processing of Longâ€Range Uniform Periodic Surface Structures with Tunable Diffraction Efficiency. Advanced Optical Materials, 2019, 7, 1900706.	3.6	47
173	Fabrication of highly homogeneous and controllable nanogratings on silicon via chemical etching-assisted femtosecond laser modification. Nanophotonics, 2019, 8, 869-878.	2.9	47
174	Enhancing charge transfer with foreign molecules through femtosecond laser induced MoS₂ defect sites for photoluminescence control and SERS enhancement. Nanoscale, 2019, 11, 485-494.	2.8	45
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