Zhongfan Liu

List of Publications by Year
in descending order

733 papers	59,032 citations	506 128 h-index	1851 209 g-index
758 all docs	758 docs citations	758 times ranked	50945 citing authors

#	Article	IF	Citations
1	Applications of 2D MXenes in energy conversion and storage systems. Chemical Society Reviews, 2019, 48, 72-133.	18.7	1,354
2	Effect of Chemical Oxidation on the Structure of Single-Walled Carbon Nanotubes. Journal of Physical Chemistry B, 2003, 107, 3712-3718.	1.2	1,045
3	Can Graphene be used as a Substrate for Raman Enhancement?. Nano Letters, 2010, 10, 553-561.	4.5	914
4	Synthesis of Nitrogenâ€Doped Graphene Using Embedded Carbon and Nitrogen Sources. Advanced Materials, 2011, 23, 1020-1024.	11.1	735
5	Toward Clean and Crackless Transfer of Graphene. ACS Nano, 2011, 5, 9144-9153.	7.3	701
6	Two-dimensional transition metal dichalcogenide (TMD) nanosheets. Chemical Society Reviews, 2015, 44, 2584-2586.	18.7	699
7	Controlled Growth of High-Quality Monolayer WS₂ Layers on Sapphire and Imaging Its Grain Boundary. ACS Nano, 2013, 7, 8963-8971.	7.3	696
8	Hierarchical Graphene Foam for Efficient Omnidirectional Solarâ€“Thermal Energy Conversion. Advanced Materials, 2017, 29, 1702590.	11.1	675
9	Ultrathin Two-Dimensional Atomic Crystals as Stable Interfacial Layer for Improvement of Lithium Metal Anode. Nano Letters, 2014, 14, 6016-6022.	4.5	656
10	Photoelectrochemical information storage using an azobenzene derivative. Nature, 1990, 347, 658-660.	13.7	565
11	Transferring and Identification of Single- and Few-Layer Graphene on Arbitrary Substrates. Journal of Physical Chemistry C, 2008, 112, 17741-17744.	1.5	522
12	Plasmonic Hot Electron Induced Structural Phase Transition in a MoS₂ Monolayer. Advanced Materials, 2014, 26, 6467-6471.	11.1	516
13	Epitaxial Monolayer MoS₂ on Mica with Novel Photoluminescence. Nano Letters, 2013, 13, 3870-3877.	4.5	512
14	High electron mobility and quantum oscillations in non-encapsulated ultrathin semiconducting Bi2O2Se. Nature Nanotechnology, 2017, 12, 530-534.	15.6	507
15	Surface enhanced Raman spectroscopy on a flat graphene surface. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 9281-9286.	3.3	505
16	Synthesis of Graphdiyne Nanowalls Using Acetylenic Coupling Reaction. Journal of the American Chemical Society, 2015, 137, 7596-7599.	6.6	484
17	Synchronous immobilization and conversion of polysulfides on a VO₂â€“VN binary host targeting high sulfur load Liâ€“S batteries. Energy and Environmental Science, 2018, 11, 2620-2630.	15.6	465
18	Graphene as a Substrate To Suppress Fluorescence in Resonance Raman Spectroscopy. Journal of the American Chemical Society, 2009, 131, 9890-9891.	6.6	460

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19	Ultrafast epitaxial growth of metre-sized single-crystal graphene on industrial Cu foil. Science Bulletin, 2017, 62, 1074-1080.	4.3	454
20	Robust Superhydrophobic Foam: A Graphdiyneâ€Based Hierarchical Architecture for Oil/Water Separation. Advanced Materials, 2016, 28, 168-173.	11.1	449
21	The edge- and basal-plane-specific electrochemistry of a single-layer graphene sheet. Scientific Reports, 2013, 3, 2248.	1.6	432
22	Roll-to-Roll Encapsulation of Metal Nanowires between Graphene and Plastic Substrate for High-Performance Flexible Transparent Electrodes. Nano Letters, 2015, 15, 4206-4213.	4.5	410
23	Controllable Growth and Transfer of Monolayer MoS₂ on Au Foils and Its Potential Application in Hydrogen Evolution Reaction. ACS Nano, 2014, 8, 10196-10204.	7.3	404
24	Few-Layer Nanoplates of Bi₂Se₃ and Bi₂Te₃ with Highly Tunable Chemical Potential. Nano Letters, 2010, 10, 2245-2250.	4.5	403
25	Organizing Single-Walled Carbon Nanotubes on Gold Using a Wet Chemical Self-Assembling Technique. Langmuir, 2000, 16, 3569-3573.	1.6	398
26	Controllable Synthesis of Conducting Polypyrrole Nanostructures. Journal of Physical Chemistry B, 2006, 110, 1158-1165.	1.2	390
27	Synthesis challenges for graphene industry. Nature Materials, 2019, 18, 520-524.	13.3	389
28	Applications of Phosphorene and Black Phosphorus in Energy Conversion and Storage Devices. Advanced Energy Materials, 2018, 8, 1702093.	10.2	385
29	Formation of Bilayer Bernal Graphene: Layer-by-Layer Epitaxy via Chemical Vapor Deposition. Nano Letters, 2011, 11, 1106-1110.	4.5	365
30	Two-Dimensional (C₄H₉NH₃)₂PbBr₄ Perovskite Crystals for High-Performance Photodetector. Journal of the American Chemical Society, 2016, 138, 16612-16615.	6.6	341
31	Batch production of 6-inch uniform monolayer molybdenum disulfide catalyzed by sodium in glass. Nature Communications, 2018, 9, 979.	5.8	338
32	Photochemical Chlorination of Graphene. ACS Nano, 2011, 5, 5957-5961.	7.3	337
33	Graphdiyne: A Metal-Free Material as Hole Transfer Layer To Fabricate Quantum Dot-Sensitized Photocathodes for Hydrogen Production. Journal of the American Chemical Society, 2016, 138, 3954-3957.	6.6	335
34	Chemical vapour deposition of group-VIB metal dichalcogenide monolayers: engineered substrates from amorphous to single crystalline. Chemical Society Reviews, 2015, 44, 2587-2602.	18.7	334
35	The rare two-dimensional materials with Dirac cones. National Science Review, 2015, 2, 22-39.	4.6	332
36	Topological insulator nanostructures for near-infrared transparent flexible electrodes. Nature Chemistry, 2012, 4, 281-286.	6.6	309

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37	Versatile Nâ€Doped MXene Ink for Printed Electrochemical Energy Storage Application. Advanced Energy Materials, 2019, 9, 1901839.	10.2	301
38	Rationalizing Electrocatalysis of Liâ€"S Chemistry by Mediator Design: Progress and Prospects. Advanced Energy Materials, 2020, 10, 1901075.	10.2	296
39	Epitaxy and Photoresponse of Two-Dimensional GaSe Crystals on Flexible Transparent Mica Sheets. ACS Nano, 2014, 8, 1485-1490.	7.3	285
40	Creation of Nanostructures with Poly(methyl methacrylate)-Mediated Nanotransfer Printing. Journal of the American Chemical Society, 2008, 130, 12612-12613.	6.6	283
41	Measurement of the Rate of Water Translocation through Carbon Nanotubes. Nano Letters, 2011, 11, 2173-2177.	4.5	282
42	Directly Grown Vertical Graphene Carpets as Janus Separators toward Stabilized Zn Metal Anodes. Advanced Materials, 2020, 32, e2003425.	11.1	278
43	Rollâ€toâ€Roll Green Transfer of CVD Graphene onto Plastic for a Transparent and Flexible Triboelectric Nanogenerator. Advanced Materials, 2015, 27, 5210-5216.	11.1	273
44	Recent Progress on Two-Dimensional Materials. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2021, .	2.2	269
45	Bridging the Gap between Reality and Ideal in Chemical Vapor Deposition Growth of Graphene. Chemical Reviews, 2018, 118, 9281-9343.	23.0	260
46	Cicada Wings: A Stamp from Nature for Nanoimprint Lithography. Small, 2006, 2, 1440-1443.	5.2	257
47	Chemical vapour deposition. Nature Reviews Methods Primers, 2021, 1, .	11.8	244
48	Toward Single-Layer Uniform Hexagonal Boron Nitrideâ€"Graphene Patchworks with Zigzag Linking Edges. Nano Letters, 2013, 13, 3439-3443.	4.5	242
49	Vertical Graphene Growth on SiO Microparticles for Stable Lithium Ion Battery Anodes. Nano Letters, 2017, 17, 3681-3687.	4.5	241
50	Universal Segregation Growth Approach to Wafer-Size Graphene from Non-Noble Metals. Nano Letters, 2011, 11, 297-303.	4.5	239
51	Temperature-mediated growth of single-walled carbon-nanotube intramolecular junctions. Nature Materials, 2007, 6, 283-286.	13.3	238
52	Chemistry Makes Graphene beyond Graphene. Journal of the American Chemical Society, 2014, 136, 12194-12200.	6.6	235
53	Janus graphene from asymmetric two-dimensional chemistry. Nature Communications, 2013, 4, 1443.	5.8	231
54	Metallic Vanadium Disulfide Nanosheets as a Platform Material for Multifunctional Electrode Applications. Nano Letters, 2017, 17, 4908-4916.	4.5	230

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55	Carbonâ€Nanomaterialâ€Based Flexible Batteries for Wearable Electronics. Advanced Materials, 2019, 31, e1800716.	11.1	228
56	Wearable energy sources based on 2D materials. Chemical Society Reviews, 2018, 47, 3152-3188.	18.7	226
57	Rational design of a binary metal alloy for chemical vapour deposition growth of uniform single-layer graphene. Nature Communications, 2011, 2, 522.	5.8	223
58	Angle-Dependent van Hove Singularities in a Slightly Twisted Graphene Bilayer. Physical Review Letters, 2012, 109, 126801.	2.9	222
59	Boron Nitride Nanopores: Highly Sensitive DNA Singleâ€Molecule Detectors. Advanced Materials, 2013, 25, 4549-4554.	11.1	220
60	Toward Mass Production of CVD Graphene Films. Advanced Materials, 2019, 31, e1800996.	11.1	218
61	Ultrafast and highly sensitive infrared photodetectors based on two-dimensional oxyselenide crystals. Nature Communications, 2018, 9, 3311.	5.8	213
62	Scalable Seashell-Based Chemical Vapor Deposition Growth of Three-Dimensional Graphene Foams for Oilâ€“Water Separation. Journal of the American Chemical Society, 2016, 138, 6360-6363.	6.6	212
63	The origin of wrinkles on transferred graphene. Nano Research, 2011, 4, 996-1004.	5.8	211
64	Epitaxial Growth of Centimeter-Scale Single-Crystal MoS₂ Monolayer on Au(111). ACS Nano, 2020, 14, 5036-5045.	7.3	211
65	Controlled synthesis of single-crystal SnSe nanoplates. Nano Research, 2015, 8, 288-295.	5.8	207
66	A scalable CVD synthesis of high-purity single-walled carbon nanotubes with porous MgO as support material. Journal of Materials Chemistry, 2002, 12, 1179-1183.	6.7	206
67	Synthesis of Hierarchical Graphdiyne-Based Architecture for Efficient Solar Steam Generation. Chemistry of Materials, 2017, 29, 5777-5781.	3.2	206
68	2D nanomaterials: graphene and transition metal dichalcogenides. Chemical Society Reviews, 2018, 47, 3015-3017.	18.7	204
69	Epitaxial Heterostructures of Ultrathin Topological Insulator Nanoplate and Graphene. Nano Letters, 2010, 10, 2870-2876.	4.5	203
70	Ultrathin graphdiyne film on graphene through solution-phase van der Waals epitaxy. Science Advances, 2018, 4, eaat6378.	4.7	198
71	Rational design of porous nitrogen-doped Ti3C2 MXene as a multifunctional electrocatalyst for Liâ€“S chemistry. Nano Energy, 2020, 70, 104555.	8.2	194
72	Controlled Growth of Atomically Thin In₂Se₃ Flakes by van der Waals Epitaxy. Journal of the American Chemical Society, 2013, 135, 13274-13277.	6.6	192

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73	â€œCloningâ€• of Single-Walled Carbon Nanotubes via Open-End Growth Mechanism. Nano Letters, 2009, 9, 1673-1677.	4.5	191
74	Temperature-triggered chemical switching growth of in-plane and vertically stacked graphene-boron nitride heterostructures. Nature Communications, 2015, 6, 6835.	5.8	191
75	Two-dimensional metallic tantalum disulfide as a hydrogen evolution catalyst. Nature Communications, 2017, 8, 958.	5.8	191
76	Direct growth of large-area graphene and boron nitride heterostructures by a co-segregation method. Nature Communications, 2015, 6, 6519.	5.8	190
77	Direct Synthesis of Graphdiyne Nanowalls on Arbitrary Substrates and Its Application for Photoelectrochemical Water Splitting Cell. Advanced Materials, 2017, 29, 1605308.	11.1	189
78	Segregation Growth of Graphene on Cuâ€"Ni Alloy for Precise Layer Control. Journal of Physical Chemistry C, 2011, 115, 11976-11982.	1.5	188
79	Temperatureâ€Mediated Selective Growth of MoS₂/WS₂ and WS₂/MoS₂ Vertical Stacks on Au Foils for Direct Photocatalytic Applications. Advanced Materials, 2016, 28, 10664-10672.	11.1	188
80	In Situ Assembly of 2D Conductive Vanadium Disulfide with Graphene as a Highâ€Sulfurâ€Loading Host for Lithiumâ€"Sulfur Batteries. Advanced Energy Materials, 2018, 8, 1800201.	10.2	188
81	Defect-like Structures of Graphene on Copper Foils for Strain Relief Investigated by High-Resolution Scanning Tunneling Microscopy. ACS Nano, 2011, 5, 4014-4022.	7.3	186
82	Approaching the electromagnetic mechanism of surface-enhanced Raman scattering: from self-assembled arrays to individual gold nanoparticles. Chemical Society Reviews, 2011, 40, 1296-1304.	18.7	185
83	Synthesis of Boronâ€Doped Graphene Monolayers Using the Sole Solid Feedstock by Chemical Vapor Deposition. Small, 2013, 9, 1316-1320.	5.2	181
84	Flexible perovskite solar cell-driven photo-rechargeable lithium-ion capacitor for self-powered wearable strain sensors. Nano Energy, 2019, 60, 247-256.	8.2	180
85	Direct Chemical Vapor Deposition-Derived Graphene Glasses Targeting Wide Ranged Applications. Nano Letters, 2015, 15, 5846-5854.	4.5	176
86	Designed CVD Growth of Graphene via Process Engineering. Accounts of Chemical Research, 2013, 46, 2263-2274.	7.6	172
87	Patterning two-dimensional chalcogenide crystals of Bi2Se3 and In2Se3 and efficient photodetectors. Nature Communications, 2015, 6, 6972.	5.8	172
88	Wrinkle-Free Single-Crystal Graphene Wafer Grown on Strain-Engineered Substrates. ACS Nano, 2017, 11, 12337-12345.	7.3	172
89	Enhanced Kinetics Harvested in Heteroatom Dualâ€Doped Graphitic Hollow Architectures toward High Rate Printable Potassiumâ€Ion Batteries. Advanced Energy Materials, 2020, 10, 2001161.	10.2	172
90	Chemical vapor deposition growth of large-scale hexagonal boron nitride with controllable orientation. Nano Research, 2015, 8, 3164-3176.	5.8	171

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91	Designing 3D Biomorphic Nitrogenâ€Doped MoSe₂/Graphene Composites toward Highâ€Performance Potassiumâ€Ion Capacitors. Advanced Functional Materials, 2020, 30, 1903878.	7.8	171
92	Strain effects in graphene and graphene nanoribbons: The underlying mechanism. Nano Research, 2010, 3, 545-556.	5.8	170
93	Raman scattering enhancement contributed from individual gold nanoparticles and interparticle coupling. Nanotechnology, 2004, 15, 357-364.	1.3	169
94	Controlled Synthesis of Topological Insulator Nanoplate Arrays on Mica. Journal of the American Chemical Society, 2012, 134, 6132-6135.	6.6	169
95	Nanopatterned Assembling of Colloidal Gold Nanoparticles on Silicon. Langmuir, 2000, 16, 4409-4412.	1.6	168
96	Photocatalytic Patterning and Modification of Graphene. Journal of the American Chemical Society, 2011, 133, 2706-2713.	6.6	168
97	Strain and curvature induced evolution of electronic band structures in twisted graphene bilayer. Nature Communications, 2013, 4, 2159.	5.8	165
98	Low-temperature growth and properties of ZnO nanowires. Applied Physics Letters, 2004, 84, 4941-4943.	1.5	163
99	Printable magnesiumÂion quasi-solid-state asymmetric supercapacitors for flexible solar-charging integrated units. Nature Communications, 2019, 10, 4913.	5.8	162
100	Labeling the Defects of Single-Walled Carbon Nanotubes Using Titanium Dioxide Nanoparticles. Journal of Physical Chemistry B, 2003, 107, 2453-2458.	1.2	160
101	Conductance Switching and Mechanisms in Singleâ€Molecule Junctions. Angewandte Chemie - International Edition, 2013, 52, 8666-8670.	7.2	158
102	Dendritic, Transferable, Strictly Monolayer MoS₂ Flakes Synthesized on SrTiO₃ Single Crystals for Efficient Electrocatalytic Applications. ACS Nano, 2014, 8, 8617-8624.	7.3	158
103	Fabrication of Designed Architectures of Au Nanoparticles on Solid Substrate with Printed Self-Assembled Monolayers as Templates. Langmuir, 2000, 16, 3846-3851.	1.6	157
104	Building Highâ€Throughput Molecular Junctions Using Indented Graphene Point Contacts. Angewandte Chemie - International Edition, 2012, 51, 12228-12232.	7.2	157
105	Production of Graphene Sheets by Direct Dispersion with Aromatic Healing Agents. Small, 2010, 6, 1100-1107.	5.2	156
106	Caging Nb₂O₅ Nanowires in PECVDâ€Derived Graphene Capsules toward Bendable Sodiumâ€Ion Hybrid Supercapacitors. Advanced Materials, 2018, 30, e1800963.	11.1	155
107	Bandgap Opening in Graphene Antidot Lattices: The Missing Half. ACS Nano, 2011, 5, 4023-4030.	7.3	154
108	Interfacial engineering in graphene bandgap. Chemical Society Reviews, 2018, 47, 3059-3099.	18.7	153

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109	Inorganic/organic mesostructure directed synthesis of wire/ribbon-like polypyrrole nanostructuresElectronic supplementary information (ESI) available: FT-IR spectra, powder XRD pattern and conductivities of as-made PPy nanostructures. See http://www.rsc.org/suppdata/cc/b4/b405255b/. Chemical Communications, 2004, , 1852.	2.2	150
110	Graphdiyne: A Promising Catalystâ€“Support To Stabilize Cobalt Nanoparticles for Oxygen Evolution. ACS Catalysis, 2017, 7, 5209-5213.	5.5	150
111	A Highly Stretchable Crossâ€Linked Polyacrylamide Hydrogel as an Effective Binder for Silicon and Sulfur Electrodes toward Durable Lithiumâ€Ion Storage. Advanced Functional Materials, 2018, 28, 1705015.	7.8	148
112	Thionine-mediated chemistry of carbon nanotubes. Carbon, 2004, 42, 287-291.	5.4	147
113	Biotemplating Growth of Nepenthes-like N-Doped Graphene as a Bifunctional Polysulfide Scavenger for Liâ€“S Batteries. ACS Nano, 2018, 12, 10240-10250.	7.3	146
114	Direct Growth of Semiconducting Single-Walled Carbon Nanotube Array. Journal of the American Chemical Society, 2009, 131, 14642-14643.	6.6	143
115	Defect Engineering for Expediting Liâ€“S Chemistry: Strategies, Mechanisms, and Perspectives. Advanced Energy Materials, 2021, 11, 2100332.	10.2	143
116	Synthesis and electrical properties of carbon nanotube polyaniline composites. Applied Physics Letters, 2004, 85, 1796-1798.	1.5	142
117	Wrinkle Engineering: A New Approach to Massive Graphene Nanoribbon Arrays. Journal of the American Chemical Society, 2011, 133, 17578-17581.	6.6	142
118	Defective VSe₂â€“Graphene Heterostructures Enabling <i>In Situ</i> Electrocatalyst Evolution for Lithiumâ€“Sulfur Batteries. ACS Nano, 2020, 14, 11929-11938.	7.3	142
119	Scalable chemical-vapour-deposition growth of three-dimensional graphene materials towards energy-related applications. Chemical Society Reviews, 2018, 47, 3018-3036.	18.7	140
120	3D Printing of a V₈C₇â€“VO₂ Bifunctional Scaffold as an Effective Polysulfide Immobilizer and Lithium Stabilizer for Liâ€“S Batteries. Advanced Materials, 2020, 32, e2005967.	11.1	140
121	Effect of hydrocarbons precursors on the formation of carbon nanotubes in chemical vapor deposition. Carbon, 2004, 42, 829-835.	5.4	139
122	Ribbon- and Boardlike Nanostructures of Nickel Hydroxide:Â Synthesis, Characterization, and Electrochemical Properties. Journal of Physical Chemistry B, 2005, 109, 7654-7658.	1.2	139
123	Surfaceâ€Confined Singleâ€Layer Covalent Organic Framework on Singleâ€Layer Graphene Grown on Copper Foil. Angewandte Chemie - International Edition, 2014, 53, 9564-9568.	7.2	139
124	Unravelling Orientation Distribution and Merging Behavior of Monolayer MoS₂ Domains on Sapphire. Nano Letters, 2015, 15, 198-205.	4.5	136
125	Selectively enhanced photocurrent generation in twisted bilayer graphene with van Hove singularity. Nature Communications, 2016, 7, 10699.	5.8	136
126	Hexagonal Boron Nitrideâ€“Graphene Heterostructures: Synthesis and Interfacial Properties. Small, 2016, 12, 32-50.	5.2	136

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127	Diatomiteâ€Templated Synthesis of Freestanding 3D Graphdiyne for Energy Storage and Catalysis Application. Advanced Materials, 2018, 30, e1800548.	11.1	134
128	Direct Growth of High-Quality Graphene on High-Îº Dielectric SrTiO₃ Substrates. Journal of the American Chemical Society, 2014, 136, 6574-6577.	6.6	133
129	Towards super-clean graphene. Nature Communications, 2019, 10, 1912.	5.8	133
130	All Chemical Vapor Deposition Synthesis and Intrinsic Bandgap Observation of MoS₂/Graphene Heterostructures. Advanced Materials, 2015, 27, 7086-7092.	11.1	132
131	Surfactant-Directed Polypyrrole/CNT Nanocables: Synthesis, Characterization, and Enhanced Electrical Properties. ChemPhysChem, 2004, 5, 998-1002.	1.0	130
132	Evaporation-induced self-assembly of gold nanoparticles into a highly organized two-dimensional array. Physical Chemistry Chemical Physics, 2002, 4, 6059-6062.	1.3	129
133	Surface Monocrystallization of Copper Foil for Fast Growth of Large Singleâ€Crystal Graphene under Free Molecular Flow. Advanced Materials, 2016, 28, 8968-8974.	11.1	128
134	Monitoring Local Strain Vector in Atomic-Layered MoSe₂ by Second-Harmonic Generation. Nano Letters, 2017, 17, 7539-7543.	4.5	128
135	Graphene photonic crystal fibre with strong and tunable lightâ€“matter interaction. Nature Photonics, 2019, 13, 754-759.	15.6	127
136	Cationic surfactant directed polyaniline/CNT nanocables: synthesis, characterization, and enhanced electrical properties. Carbon, 2004, 42, 1455-1461.	5.4	126
137	Enhanced Sulfur Redox and Polysulfide Regulation via Porous VN-Modified Separator for Liâ€“S Batteries. ACS Applied Materials & Interfaces, 2019, 11, 5687-5694.	4.0	126
138	CMP Aerogels: Ultrahighâ€Surfaceâ€Area Carbonâ€Based Monolithic Materials with Superb Sorption Performance. Advanced Materials, 2014, 26, 8053-8058.	11.1	125
139	2D graphdiyne materials: challenges and opportunities in energy field. Science China Chemistry, 2018, 61, 765-786.	4.2	123
140	Catalyst-Free Growth of Three-Dimensional Graphene Flakes and Graphene/g-C₃N₄ Composite for Hydrocarbon Oxidation. ACS Nano, 2016, 10, 3665-3673.	7.3	122
141	Manipulating Electrocatalytic Li₂S Redox via Selective Dualâ€Defect Engineering for Liâ€“S Batteries. Advanced Materials, 2021, 33, e2103050.	11.1	122
142	Chemical Alignment of Oxidatively Shortened Single-Walled Carbon Nanotubes on Silver Surface. Journal of Physical Chemistry B, 2001, 105, 5075-5078.	1.2	120
143	Aligned, Ultralong Singleâ€Walled Carbon Nanotubes: From Synthesis, Sorting, to Electronic Devices. Advanced Materials, 2010, 22, 2285-2310.	11.1	120
144	Growth of high-density horizontally aligned SWNT arrays using Trojan catalysts. Nature Communications, 2015, 6, 6099.	5.8	120

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145	Chemical modification of single-walled carbon nanotubes with peroxytrifluoroacetic acid. Carbon, 2005, 43, 1470-1478.	5.4	119
146	Grain Boundary Structures and Electronic Properties of Hexagonal Boron Nitride on Cu(111). Nano Letters, 2015, 15, 5804-5810.	4.5	117
147	Inverse relationship between carrier mobility and bandgap in graphene. Journal of Chemical Physics, 2013, 138, 084701.	1.2	116
148	Quasi-Freestanding Monolayer Heterostructure of Graphene and Hexagonal Boron Nitride on Ir(111) with a Zigzag Boundary. Nano Letters, 2014, 14, 6342-6347.	4.5	116
149	Growing Uniform Graphene Disks and Films on Molten Glass for Heating Devices and Cell Culture. Advanced Materials, 2015, 27, 7839-7846.	11.1	116
150	Raman Spectra and Corresponding Strain Effects in Graphyne and Graphdiyne. Journal of Physical Chemistry C, 2016, 120, 10605-10613.	1.5	116
151	Improved Epitaxy of AlN Film for Deepâ€Ultraviolet Lightâ€Emitting Diodes Enabled by Graphene. Advanced Materials, 2019, 31, e1807345.	11.1	116
152	Highâ€Performance Photoresponsive Organic Nanotransistors with Singleâ€Layer Graphenes as Twoâ€Dimensional Electrodes. Advanced Functional Materials, 2009, 19, 2743-2748.	7.8	115
153	Cap Formation Engineering: From Opened C₆₀ to Single-Walled Carbon Nanotubes. Nano Letters, 2010, 10, 3343-3349.	4.5	115
154	Architecture of Î²â€Graphdiyneâ€Containing Thin Film Using Modified Glaserâ€“Hay Coupling Reaction for Enhanced Photocatalytic Property of TiO₂. Advanced Materials, 2017, 29, 1700421.	11.1	115
155	Chemical Vapor Deposition Growth of Linked Carbon Monolayers with Acetylenic Scaffoldings on Silver Foil. Advanced Materials, 2017, 29, 1604665.	11.1	114
156	Three-dimensional nanostructured graphene: Synthesis and energy, environmental and biomedical applications. Synthetic Metals, 2017, 234, 53-85.	2.1	114
157	Direct CVD Growth of Graphene on Traditional Glass: Methods and Mechanisms. Advanced Materials, 2019, 31, e1803639.	11.1	114
158	Greatly Enhanced Anticorrosion of Cu by Commensurate Graphene Coating. Advanced Materials, 2018, 30, 1702944.	11.1	113
159	Identifying the Evolution of Seleniumâ€Vacancyâ€Modulated MoSe₂Precatalyst in Lithiumâ€“Sulfur Chemistry. Angewandte Chemie - International Edition, 2021, 60, 24558-24565.	7.2	113
160	Direct low-temperature synthesis of graphene on various glasses by plasma-enhanced chemical vapor deposition for versatile, cost-effective electrodes. Nano Research, 2015, 8, 3496-3504.	5.8	112
161	CVD Growth of Large Area Smooth-edged Graphene Nanomesh by Nanosphere Lithography. Scientific Reports, 2013, 3, 1238.	1.6	111
162	Creating One-Dimensional Nanoscale Periodic Ripples in a Continuous Mosaic Graphene Monolayer. Physical Review Letters, 2014, 113, 086102.	2.9	111

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163	High-Performance Single CdS Nanowire (Nanobelt) Schottky Junction Solar Cells with Au/Graphene Schottky Electrodes. ACS Applied Materials & Interfaces, 2010, 2, 3406-3410.	4.0	108
164	Self-Terminating Confinement Approach for Large-Area Uniform Monolayer Graphene Directly over Si/SiO_x by Chemical Vapor Deposition. ACS Nano, 2017, 11, 1946-1956.	7.3	108
165	Recent progress in the tailored growth of two-dimensional hexagonal boron nitride <i>via</i> chemical vapour deposition. Chemical Society Reviews, 2018, 47, 4242-4257.	18.7	107
166	Conductive and Catalytic VTe₂@MgO Heterostructure as Effective Polysulfide Promotor for Lithiumâ€"Sulfur Batteries. ACS Nano, 2019, 13, 13235-13243.	7.3	107
167	MOF-derived conductive carbon nitrides for separator-modified Liâ€"S batteries and flexible supercapacitors. Journal of Materials Chemistry A, 2020, 8, 1757-1766.	5.2	107
168	In-situ PECVD-enabled graphene-V2O3 hybrid host for lithiumâ€"sulfur batteries. Nano Energy, 2018, 53, 432-439.	8.2	105
169	MOF-derived hierarchical CoP nanoflakes anchored on vertically erected graphene scaffolds as self-supported and flexible hosts for lithiumâ€"sulfur batteries. Journal of Materials Chemistry A, 2020, 8, 3027-3034.	5.2	105
170	Substrate-Induced Raman Frequency Variation for Single-Walled Carbon Nanotubes. Journal of the American Chemical Society, 2005, 127, 17156-17157.	6.6	103
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