

# Zhongfan Liu

## List of Publications by Year in descending order

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733  
papers

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492

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docs citations

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times ranked

50945  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biomass Template Derived Boron/Oxygen Co-doped Carbon Particles as Advanced Anodes for Potassium-Ion Batteries. Energy and Environmental Materials, 2022, 5, 344-352.	12.8	32
2	Electric Current Aligning Component Units during Graphene Fiber Joule Heating. Advanced Functional Materials, 2022, 32, 2103493.	14.9	33
3	Copper acetate-facilitated transfer-free growth of high-quality graphene for hydrovoltaic generators. National Science Review, 2022, 9, .	9.5	8
4	Direct insight into sulfiphilicity-lithiophilicity design of bifunctional heteroatom-doped graphene mediator toward durable Li-S batteries. Journal of Energy Chemistry, 2022, 66, 474-482.	12.9	44
5	Transfer-enabled Fabrication of Graphene Wrinkle Arrays for Epitaxial Growth of AlN Films. Advanced Materials, 2022, 34, e2105851.	21.0	15
6	The role of Cu crystallographic orientations towards growing superclean graphene on meter-sized scale. Nano Research, 2022, 15, 3775-3780.	10.4	3
7	In situ separator modification via CVD-derived N-doped carbon for highly reversible Zn metal anodes. Nano Research, 2022, 15, 9785-9791.	10.4	36
8	Carbon nanomaterials for highly stable Zn anode: Recent progress and future outlook. Journal of Electroanalytical Chemistry, 2022, 904, 115883.	3.8	19
9	Intrinsic Wettability in Pristine Graphene. Advanced Materials, 2022, 34, e2103620.	21.0	28
10	Vertical graphene-coated Cu wire for enhanced tolerance to high current density in power transmission. Nano Research, 2022, 15, 9727-9733.	10.4	11
11	High-Performance 3D Vertically Oriented Graphene Photodetector Using a Floating Indium Tin Oxide Channel. Sensors, 2022, 22, 959.	3.8	3
12	Graphdiyne/Graphene/Graphdiyne Sandwiched Carbonaceous Anode for Potassium-Ion Batteries. ACS Nano, 2022, 16, 3163-3172.	14.6	56
13	Dual-Emitter Graphene Glass Fiber Fabric for Radiant Heating. ACS Nano, 2022, 16, 2577-2584.	14.6	29
14	Intrinsic Wettability in Pristine Graphene (Adv. Mater. 6/2022). Advanced Materials, 2022, 34, .	21.0	5
15	Controllable Growth of Graphene Photonic Crystal Fibers with Tunable Optical Nonlinearity. ACS Photonics, 2022, 9, 961-968.	6.6	7
16	Vertical-graphene-reinforced Titanium Alloy Bipolar Plates in Fuel Cells. Advanced Materials, 2022, 34, e2110565.	21.0	31
17	Graphene-driving strain engineering to enable strain-free epitaxy of AlN film for deep ultraviolet light-emitting diode. Light: Science and Applications, 2022, 11, 88.	16.6	24
18	Toward Epitaxial Growth of Misorientation-Free Graphene on Cu(111) Foils. ACS Nano, 2022, 16, 285-294.	14.6	40

#	ARTICLE	IF	CITATIONS
19	Freestanding Graphene Fabric Film for Flexible Infrared Camouflage. <i>Advanced Science</i> , 2022, 9, e2105004.	11.2	24
20	Toward Direct Growth of Ultra-flat Graphene. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	10
21	Flexible Full-Surface Conformal Encapsulation for Each Fiber in Graphene Glass Fiber Fabric against Thermal Oxidation. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 19889-19896.	8.0	3
22	Atomic Mechanism of Strain Alleviation and Dislocation Reduction in Highly Mismatched Remote Heteroepitaxy Using a Graphene Interlayer. <i>Nano Letters</i> , 2022, 22, 3364-3371.	9.1	10
23	Multifunctional glass fibre filter modified with vertical graphene for one-step dynamic water filtration and disinfection. <i>Journal of Materials Chemistry A</i> , 2022, 10, 12125-12131.	10.3	4
24	Direct Plasma-enhanced Chemical Vapor Deposition Syntheses of Vertically Oriented Graphene Films on Functional Insulating Substrates for Wide-Range Applications. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	8
25	Slip-line-Guided Growth of Graphene. <i>Advanced Materials</i> , 2022, 34, e2201188.	21.0	7
26	The Rise of Graphene Photonic Crystal Fibers. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	6
27	Toward batch synthesis of high-quality graphene by cold-wall chemical vapor deposition approach. <i>Nano Research</i> , 2022, 15, 9683-9688.	10.4	6
28	An Anode-free Potassium-metal Battery Enabled by a Directly Grown Graphene-modulated Aluminum Current Collector. <i>Advanced Materials</i> , 2022, 34, e2202902.	21.0	27
29	Ultra-broadband Strong Electromagnetic Interference Shielding with Ferromagnetic Graphene Quartz Fabric. <i>Advanced Materials</i> , 2022, 34, .	21.0	60
30	Complementary Chemical Vapor Deposition Fabrication for Large-area Uniform Graphene Glass Fiber Fabric. <i>Small Methods</i> , 2022, 6, .	8.6	8
31	Electrocatalyst Modulation toward Bidirectional Sulfur Redox in Li-S Batteries: From Strategic Probing to Mechanistic Understanding. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	49
32	Chiral emission induced by the interaction between chiral phonons and localized plasmon. <i>Applied Physics Letters</i> , 2022, 120, .	3.3	1
33	Doping of Graphene Films: Open the way to Applications in Electronics and Optoelectronics. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	21
34	Altering Local Chemistry of Single-Atom Coordination Boosts Bidirectional Polysulfide Conversion of Li-S Batteries. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	43
35	Porous-structure engineered spacer for high-throughput and rapid growth of high-quality graphene films. <i>Nano Research</i> , 2022, 15, 9741-9746.	10.4	3
36	Preparation of single-crystal metal substrates for the growth of high-quality two-dimensional materials. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 182-200.	6.0	15

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37	Oxygen-assisted direct growth of large-domain and high-quality graphene on glass targeting advanced optical filter applications. Nano Research, 2021, 14, 260-267.	10.4	20
38	Precise synthesis of N-doped graphitic carbon via chemical vapor deposition to unravel the dopant functions on potassium storage toward practical K-ion batteries. Nano Research, 2021, 14, 1413-1420.	10.4	34
39	Enhanced Hemocompatibility of a Direct Chemical Vapor Deposition-Derived Graphene Film. ACS Applied Materials & Interfaces, 2021, 13, 4835-4843.	8.0	8
40	Structure-induced partial phase transformation endows hollow TiO <sub>2</sub> /TiN heterostructure fibers stacked with nanosheet arrays with extraordinary sodium storage performance. Journal of Materials Chemistry A, 2021, 9, 12109-12118.	10.3	16
41	Chemical vapour deposition. Nature Reviews Methods Primers, 2021, 1, .	21.2	244
42	Decimeter-Scale Atomically Thin Graphene Membranes for Gas-Liquid Separation. ACS Applied Materials & Interfaces, 2021, 13, 10328-10335.	8.0	11
43	Synchronous Promotion in Sodiophilicity and Conductivity of Flexible Host via Vertical Graphene Cultivator for Longevous Sodium Metal Batteries. Advanced Functional Materials, 2021, 31, 2101233.	14.9	32
44	Graphene-Nanorod Enhanced Quasi-Van Der Waals Epitaxy for High Indium Composition Nitride Films. Small, 2021, 17, e2100098.	10.0	12
45	The Mechanism of Graphene Vapor-Solid Growth on Insulating Substrates. ACS Nano, 2021, 15, 7399-7408.	14.6	23
46	Metallic Transition Metal Dichalcogenides of Group VIB: Preparation, Stabilization, and Energy Applications. Small, 2021, 17, e2005573.	10.0	19
47	Graphene Transfer: Paving the Road for Applications of Chemical Vapor Deposition Graphene. Small, 2021, 17, e2007600.	10.0	68
48	A Robust Ternary Heterostructured Electrocatalyst with Conformal Graphene Chainmail for Expediting Bi-Directional Sulfur Redox in Li-S Batteries. Advanced Functional Materials, 2021, 31, 2100586.	14.9	71
49	Chemical Vapor Deposition Synthesis of Graphene over Sapphire Substrates. ChemNanoMat, 2021, 7, 515-525.	2.8	16
50	Hetero-site nucleation for growing twisted bilayer graphene with a wide range of twist angles. Nature Communications, 2021, 12, 2391.	12.8	92
51	Defect Engineering for Expediting Li-S Chemistry: Strategies, Mechanisms, and Perspectives. Advanced Energy Materials, 2021, 11, 2100332.	19.5	143
52	Tunable Pore Size from Sub-Nanometer to a Few Nanometers in Large-Area Graphene Nanoporous Atomically Thin Membranes. ACS Applied Materials & Interfaces, 2021, 13, 29926-29935.	8.0	23
53	Theoretical calculation boosting the chemical vapor deposition growth of graphene film. APL Materials, 2021, 9, 060906.	5.1	2
54	Hot-Carrier Cooling in High-Quality Graphene Is Intrinsically Limited by Optical Phonons. ACS Nano, 2021, 15, 11285-11295.	14.6	43

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55	Waxâ€Transferred Hydrophobic CVD Graphene Enables Waterâ€Resistant and Dendriteâ€Free Lithium Anode toward Long Cycle Liâ€Air Battery. <i>Advanced Science</i> , 2021, 8, e2100488.	11.2	28
56	Harmonized edge/graphiticâ€nitrogen doped carbon nanopolyhedron@nanosheet composite via saltâ€confined strategy for advanced <sc>K</sc>â€ion hybrid capacitors. <i>Informaâ€Materi</i> , 2021, 3, 891-903.	17.3	18
57	Controllable Synthesis of Waferâ€Scale Graphene Films: Challenges, Status, and Perspectives. <i>Small</i> , 2021, 17, e2008017.	10.0	23
58	Tunable and highly sensitive temperature sensor based on graphene photonic crystal fiber*. <i>Chinese Physics B</i> , 2021, 30, 118103.	1.4	2
59	Van der Waals epitaxy of nearly single-crystalline nitride films on amorphous graphene-glass wafer. <i>Science Advances</i> , 2021, 7, .	10.3	35
60	Universal interface and defect engineering dual-strategy for graphene-oxide heterostructures toward promoted Liâ€S chemistry. <i>Chemical Engineering Journal</i> , 2021, 418, 129407.	12.7	24
61	Flow characteristics of low pressure chemical vapor deposition in the micro-channel. <i>Physics of Fluids</i> , 2021, 33, 082012.	4.0	2
62	Identifying the Evolution of Seleniumâ€Vacancyâ€Modulated MoSe<sub>2</sub>Precatalyst in Lithiumâ€Sulfur Chemistry. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 24558-24565.	13.8	113
63	Designing Newâ€Generation Piezoelectric Transducers by Embedding Superior Grapheneâ€Based Thermal Regulators. <i>Advanced Materials</i> , 2021, 33, e2103141.	21.0	9
64	Manipulating Electrocatalytic Li<sub>2</sub>S Redox via Selective Dualâ€Defect Engineering for Liâ€S Batteries. <i>Advanced Materials</i> , 2021, 33, e2103050.	21.0	122
65	Optical detection of the susceptibility tensor in two-dimensional crystals. <i>Communications Physics</i> , 2021, 4, .	5.3	26
66	Concurrent realization of dendrite-free anode and high-loading cathode via 3D printed N-Ti3C2 MXene framework toward advanced Liâ€S full batteries. <i>Energy Storage Materials</i> , 2021, 41, 141-151.	18.0	72
67	Recent Progress on Two-Dimensional Materials. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2021, .	4.9	269
68	Special topic on 2D materials chemistry. <i>APL Materials</i> , 2021, 9, 100401.	5.1	0
69	Toward the commercialization of chemical vapor deposition graphene films. <i>Applied Physics Reviews</i> , 2021, 8, .	11.3	19
70	Hydrophilic, Clean Graphene for Cell Culture and Cryo-EM Imaging. <i>Nano Letters</i> , 2021, 21, 9587-9593.	9.1	7
71	Direct growth of wafer-scale highly oriented graphene on sapphire. <i>Science Advances</i> , 2021, 7, eabk0115.	10.3	43
72	Bio-templated formation of defect-abundant VS2 as a bifunctional material toward high-performance hydrogen evolution reactions and lithiumâ€sulfur batteries. <i>Journal of Energy Chemistry</i> , 2020, 42, 34-42.	12.9	99

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73	Controlled Growth of Single-Crystal Graphene Films. <i>Advanced Materials</i> , 2020, 32, e1903266.	21.0	95
74	Rationalizing Electrocatalysis of Li-O <sub>2</sub> Chemistry by Mediator Design: Progress and Prospects. <i>Advanced Energy Materials</i> , 2020, 10, 1901075.	19.5	296
75	Designing 3D Biomorphic Nitrogen-Doped MoSe <sub>2</sub> /Graphene Composites toward High-Performance Potassium-Ion Capacitors. <i>Advanced Functional Materials</i> , 2020, 30, 1903878.	14.9	171
76	Understanding Interlayer Contact Conductance in Twisted Bilayer Graphene. <i>Small</i> , 2020, 16, e1902844.	10.0	27
77	H <sub>2</sub> O-Etchant-Promoted Synthesis of High-Quality Graphene on Glass and Its Application in See-Through Thermochromic Displays. <i>Small</i> , 2020, 16, e1905485.	10.0	20
78	MOF-derived conductive carbon nitrides for separator-modified Li-O <sub>2</sub> batteries and flexible supercapacitors. <i>Journal of Materials Chemistry A</i> , 2020, 8, 1757-1766.	10.3	107
79	3D Printing of NiCoP/Ti <sub>3</sub> C <sub>2</sub> MXene Architectures for Energy Storage Devices with High Areal and Volumetric Energy Density. <i>Nano-Micro Letters</i> , 2020, 12, 143.	27.0	90
80	Rational Design of Binary Alloys for Catalytic Growth of Graphene via Chemical Vapor Deposition. <i>Catalysts</i> , 2020, 10, 1305.	3.5	7
81	3D Printing of a V <sub>8</sub> C <sub>7</sub> -VO <sub>2</sub> Bifunctional Scaffold as an Effective Polysulfide Immobilizer and Lithium Stabilizer for Li-O <sub>2</sub> Batteries. <i>Advanced Materials</i> , 2020, 32, e2005967.	21.0	140
82	Highly Conductive Nitrogen-Doped Vertically Oriented Graphene toward Versatile Electrode-Related Applications. <i>ACS Nano</i> , 2020, 14, 15327-15335.	14.6	26
83	Growth of Ultraflat Graphene with Greatly Enhanced Mechanical Properties. <i>Nano Letters</i> , 2020, 20, 6798-6806.	9.1	19
84	Nanopatterned Graphene: Direct Growth of Nanopatterned Graphene on Sapphire and Its Application in Light Emitting Diodes (Adv. Funct. Mater. 31/2020). <i>Advanced Functional Materials</i> , 2020, 30, 2070209.	14.9	1
85	Defective VSe <sub>2</sub> -Graphene Heterostructures Enabling <i>In Situ</i> Electrocatalyst Evolution for Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2020, 14, 11929-11938.	14.6	142
86	Optical fibres with embedded two-dimensional materials for ultrahigh nonlinearity. <i>Nature Nanotechnology</i> , 2020, 15, 987-991.	31.5	94
87	New Growth Frontier: Superclean Graphene. <i>ACS Nano</i> , 2020, 14, 10796-10803.	14.6	41
88	High-Performance Li-O <sub>2</sub> Batteries Based on All-Graphene Backbone. <i>Advanced Functional Materials</i> , 2020, 30, 2007218.	14.9	36
89	High elastic moduli, controllable bandgap and extraordinary carrier mobility in single-layer diamond. <i>Journal of Materials Chemistry C</i> , 2020, 8, 13819-13826.	5.5	24
90	Universal <i>In Situ</i> Crafted MO <sub>x</sub> -MXene Heterostructures as Heavy and Multifunctional Hosts for 3D-Printed Li-O <sub>2</sub> Batteries. <i>ACS Nano</i> , 2020, 14, 16073-16084.	14.6	82

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91	Tunable wideband slot antennas based on printable graphene inks. <i>Nanoscale</i> , 2020, 12, 10949-10955.	5.6	6
92	Lithium-Ion Batteries: Highly-Safe and Ultra-Stable All-Flexible Gel Polymer Lithium Ion Batteries Aiming for Scalable Applications ( <i>Adv. Energy Mater.</i> 21/2020). <i>Advanced Energy Materials</i> , 2020, 10, 2070095.	19.5	0
93	Enhancing the Heat-Dissipation Efficiency in Ultrasonic Transducers via Embedding Vertically Oriented Graphene-Based Porcelain Radiators. <i>Nano Letters</i> , 2020, 20, 5097-5105.	9.1	16
94	Superclean Growth of Graphene Using a Cold-Wall Chemical Vapor Deposition Approach. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 17214-17218.	13.8	28
95	Sandwiched graphene/hBN/graphene photonic crystal fibers with high electro-optical modulation depth and speed. <i>Nanoscale</i> , 2020, 12, 14472-14478.	5.6	12
96	Superclean Growth of Graphene Using a Cold-Wall Chemical Vapor Deposition Approach. <i>Angewandte Chemie</i> , 2020, 132, 17367-17371.	2.0	4
97	Temperature-Mediated Engineering of Graphdiyne Framework Enabling High-Performance Potassium Storage. <i>Advanced Functional Materials</i> , 2020, 30, 2003039.	14.9	62
98	Direct Growth of Nanopatterned Graphene on Sapphire and Its Application in Light Emitting Diodes. <i>Advanced Functional Materials</i> , 2020, 30, 2001483.	14.9	27
99	Large Single-Crystal Cu Foils with High-Index Facets by Strain-Engineered Anomalous Grain Growth. <i>Advanced Materials</i> , 2020, 32, e2002034.	21.0	45
100	Enhanced Kinetics Harvested in Heteroatom Dual-Doped Graphitic Hollow Architectures toward High Rate Printable Potassium-Ion Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2001161.	19.5	172
101	Realization and transport investigation of a single layer-twisted bilayer graphene junction. <i>Carbon</i> , 2020, 163, 105-112.	10.3	4
102	Direct Growth of Graphene over Insulators by Gaseous-Promotor-Assisted CVD: Progress and Prospects. <i>ChemNanoMat</i> , 2020, 6, 483-492.	2.8	6
103	Quasi-2D Growth of Aluminum Nitride Film on Graphene for Boosting Deep Ultraviolet Light-Emitting Diodes. <i>Advanced Science</i> , 2020, 7, 2001272.	11.2	37
104	Directly Grown Vertical Graphene Carpets as Janus Separators toward Stabilized Zn Metal Anodes. <i>Advanced Materials</i> , 2020, 32, e2003425.	21.0	278
105	Quantitative Analyses of the Interfacial Properties of Current Collectors at the Mesoscopic Level in Lithium Ion Batteries by Using Hierarchical Graphene. <i>Nano Letters</i> , 2020, 20, 2175-2182.	9.1	18
106	Natural Biopolymers for Flexible Sensing and Energy Devices. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2020, 38, 459-490.	3.8	69
107	Ethanol-Precursor-Mediated Growth and Thermochromic Applications of Highly Conductive Vertically Oriented Graphene on Soda-Lime Glass. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 11972-11978.	8.0	17
108	Substrate Developments for the Chemical Vapor Deposition Synthesis of Graphene. <i>Advanced Materials Interfaces</i> , 2020, 7, 1902024.	3.7	27



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109	Utilization of Synergistic Effect of Dimensionâ€Differentiated Hierarchical Nanomaterials for Transparent and Flexible Wireless Communicational Elements. Advanced Materials Technologies, 2020, 5, 1901057.	5.8	4
110	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.	10.3	105
111	In Situ Nâ€Doped Graphene and Mo Nanoribbon Formation from $\text{Mo}_{2-x}\text{Ti}_x\text{C}_3$ MXene Monolayers. Small, 2020, 16, e1907115.	10.0	14
112	Rational design of porous nitrogen-doped $\text{Ti}_3\text{C}_2$ MXene as a multifunctional electrocatalyst for Liâ€S chemistry. Nano Energy, 2020, 70, 104555.	16.0	194
113	Transport signatures of relativistic quantum scars in a graphene cavity. Physical Review B, 2020, 101, .	3.2	3
114	Recent advances in the template-confined synthesis of two-dimensional materials for aqueous energy storage devices. Nanoscale Advances, 2020, 2, 2220-2233.	4.6	23
115	Batch synthesis of transfer-free graphene with wafer-scale uniformity. Nano Research, 2020, 13, 1564-1570.	10.4	22
116	Epitaxial Growth of Centimeter-Scale Single-Crystal $\text{MoS}_2$ Monolayer on Au(111). ACS Nano, 2020, 14, 5036-5045.	14.6	211
117	Highlyâ€Safe and Ultraâ€Stable Allâ€Flexible Gel Polymer Lithium Ion Batteries Aiming for Scalable Applications. Advanced Energy Materials, 2020, 10, 1904281.	19.5	48
118	Massive Growth of Graphene Quartz Fiber as a Multifunctional Electrode. ACS Nano, 2020, 14, 5938-5945.	14.6	43
119	Micro-nano hybrid-structured conductive film with ultrawide range pressure-sensitivity and bioelectrical acquirability for ubiquitous wearable applications. Applied Materials Today, 2020, 20, 100651.	4.3	8
120	Expediting the electrochemical kinetics of 3D-printed sulfur cathodes for Liâ€S batteries with high rate capability and areal capacity. Nano Energy, 2020, 75, 104970.	16.0	44
121	Graphene-Based LED: from Principle to Devices. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2020, 36, 1907004-0.	4.9	8
122	Chemical Vapor Deposition Method for Graphene Fiber Materials. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2020, .	4.9	13
123	Graphene Fibers: Preparation, Properties, and Applications. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2020, .	4.9	7
124	Roles of Transition Metal Substrates in Graphene Chemical Vapor Deposition Growth. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2020, .	4.9	3
125	Accelerated Liâ€S chemistry at a cooperative interface built <i>in situ</i> . Journal of Materials Chemistry A, 2019, 7, 20750-20759.	10.3	28
126	Nitrogen cluster doping for high-mobility/conductivity graphene films with millimeter-sized domains. Science Advances, 2019, 5, eaaw8337.	10.3	77



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127	Macroscale single crystal graphene templated directional alignment of liquid-crystal microlens array for light field imaging. Applied Physics Letters, 2019, 115, .	3.3	6
128	Graphene photonic crystal fibre with strong and tunable light-matter interaction. Nature Photonics, 2019, 13, 754-759.	31.4	127
129	Ultrafast Catalyst-Free Graphene Growth on Glass Assisted by Local Fluorine Supply. ACS Nano, 2019, 13, 10272-10278.	14.6	32
130	Large-Area Synthesis of Superclean Graphene via Selective Etching of Amorphous Carbon with Carbon Dioxide. Angewandte Chemie - International Edition, 2019, 58, 14446-14451.	13.8	64
131	Large-Area Synthesis of Superclean Graphene via Selective Etching of Amorphous Carbon with Carbon Dioxide. Angewandte Chemie, 2019, 131, 14588-14593.	2.0	5
132	Versatile N-Doped MXene Ink for Printed Electrochemical Energy Storage Application. Advanced Energy Materials, 2019, 9, 1901839.	19.5	301
133	UV Light-Emitting Diodes: Enhancement of Heat Dissipation in Ultraviolet Light-Emitting Diodes by a Vertically Oriented Graphene Nanowall Buffer Layer (Adv. Mater. 29/2019). Advanced Materials, 2019, 31, 1970211.	21.0	2
134	Conductive and Catalytic VTe <sub>2</sub> @MgO Heterostructure as Effective Polysulfide Promotor for Lithium-Sulfur Batteries. ACS Nano, 2019, 13, 13235-13243.	14.6	107
135	Elevated polysulfide regulation by an ultralight all-CVD-built ReS <sub>2</sub> @N-Doped graphene heterostructure interlayer for lithium-sulfur batteries. Nano Energy, 2019, 66, 104190.	16.0	77
136	Printable magnesium-ion quasi-solid-state asymmetric supercapacitors for flexible solar-charging integrated units. Nature Communications, 2019, 10, 4913.	12.8	162
137	Atomic mechanism of strong interactions at the graphene/sapphire interface. Nature Communications, 2019, 10, 5013.	12.8	31
138	Confining MOF-derived SnSe nanoplatelets in nitrogen-doped graphene cages via direct CVD for durable sodium ion storage. Nano Research, 2019, 12, 3051-3058.	10.4	70
139	Synthesis of Doped Porous 3D Graphene Structures by Chemical Vapor Deposition and Its Applications. Advanced Functional Materials, 2019, 29, 1904457.	14.9	64
140	Frontispiz: Large-Area Synthesis of Superclean Graphene via Selective Etching of Amorphous Carbon with Carbon Dioxide. Angewandte Chemie, 2019, 131, .	2.0	0
141	Frontispiece: Large-Area Synthesis of Superclean Graphene via Selective Etching of Amorphous Carbon with Carbon Dioxide. Angewandte Chemie - International Edition, 2019, 58, .	13.8	2
142	A Force-Engineered Lint Roller for Superclean Graphene. Advanced Materials, 2019, 31, e1902978.	21.0	40
143	Superhydrophilic Graphdiyne Accelerates Interfacial Mass/Electron Transportation to Boost Electrocatalytic and Photoelectrocatalytic Water Oxidation Activity. Advanced Functional Materials, 2019, 29, 1808079.	14.9	95
144	Direct synthesis of flexible graphene glass with macroscopic uniformity enabled by copper-foam-assisted PECVD. Journal of Materials Chemistry A, 2019, 7, 4813-4822.	10.3	34

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145	Electron-Driven <i>In Situ</i> Transmission Electron Microscopy of 2D Transition Metal Dichalcogenides and Their 2D Heterostructures. ACS Nano, 2019, 13, 978-995.	14.6	51
146	Carbon Nanomaterial-Based Flexible Batteries for Wearable Electronics. Advanced Materials, 2019, 31, e1800716.	21.0	228
147	Growth of 12-inch uniform monolayer graphene film on molten glass and its application in PbI <sub>2</sub> -based photodetector. Nano Research, 2019, 12, 1888-1893.	10.4	16
148	Enhancement of Heat Dissipation in Ultraviolet Light-Emitting Diodes by a Vertically Oriented Graphene Nanowall Buffer Layer. Advanced Materials, 2019, 31, e1901624.	21.0	72
149	Scalable Salt-Templated Synthesis of Nitrogen-Doped Graphene Nanosheets toward Printable Energy Storage. ACS Nano, 2019, 13, 7517-7526.	14.6	83
150	Synthesis challenges for graphene industry. Nature Materials, 2019, 18, 520-524.	27.5	389
151	Towards super-clean graphene. Nature Communications, 2019, 10, 1912.	12.8	133
152	Copper-Containing Carbon Feedstock for Growing Superclean Graphene. Journal of the American Chemical Society, 2019, 141, 7670-7674.	13.7	47
153	Direct chemical vapor deposition synthesis of large area single-layer brominated graphene. RSC Advances, 2019, 9, 13527-13532.	3.6	10
154	Transfer-Medium-Free Nanofiber-Reinforced Graphene Film and Applications in Wearable Transparent Pressure Sensors. ACS Nano, 2019, 13, 5541-5548.	14.6	96
155	Superhydrophilic Graphdiyne: Superhydrophilic Graphdiyne Accelerates Interfacial Mass/Electron Transportation to Boost Electrocatalytic and Photoelectrocatalytic Water Oxidation Activity (Adv.) TJ ETQq1 1 0.784814 rgBT /Overlook	14.6	141
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