

# Zhongfan Liu

## List of Publications by Year in descending order

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733  
papers

59,032  
citations

599

128  
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2142

209  
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758  
all docs

758  
docs citations

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times ranked

58825  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biomass Template Derived Boron/Oxygen Co-doped Carbon Particles as Advanced Anodes for Potassium-Ion Batteries. <i>Energy and Environmental Materials</i> , 2022, 5, 344-352.	7.3	32
2	Electric Current Aligning Component Units during Graphene Fiber Joule Heating. <i>Advanced Functional Materials</i> , 2022, 32, 2103493.	7.8	33
3	Copper acetate-facilitated transfer-free growth of high-quality graphene for hydrovoltaic generators. <i>National Science Review</i> , 2022, 9, .	4.6	8
4	Direct insight into sulfiphilicity-lithiophilicity design of bifunctional heteroatom-doped graphene mediator toward durable Li-S batteries. <i>Journal of Energy Chemistry</i> , 2022, 66, 474-482.	7.1	44
5	Transfer-enabled Fabrication of Graphene Wrinkle Arrays for Epitaxial Growth of AlN Films. <i>Advanced Materials</i> , 2022, 34, e2105851.	11.1	15
6	The role of Cu crystallographic orientations towards growing superclean graphene on meter-sized scale. <i>Nano Research</i> , 2022, 15, 3775-3780.	5.8	3
7	In situ separator modification via CVD-derived N-doped carbon for highly reversible Zn metal anodes. <i>Nano Research</i> , 2022, 15, 9785-9791.	5.8	36
8	Carbon nanomaterials for highly stable Zn anode: Recent progress and future outlook. <i>Journal of Electroanalytical Chemistry</i> , 2022, 904, 115883.	1.9	19
9	Intrinsic Wettability in Pristine Graphene. <i>Advanced Materials</i> , 2022, 34, e2103620.	11.1	28
10	Vertical graphene-coated Cu wire for enhanced tolerance to high current density in power transmission. <i>Nano Research</i> , 2022, 15, 9727-9733.	5.8	11
11	High-Performance 3D Vertically Oriented Graphene Photodetector Using a Floating Indium Tin Oxide Channel. <i>Sensors</i> , 2022, 22, 959.	2.1	3
12	Graphdiyne/Graphene/Graphdiyne Sandwiched Carbonaceous Anode for Potassium-Ion Batteries. <i>ACS Nano</i> , 2022, 16, 3163-3172.	7.3	56
13	Dual-Emitter Graphene Glass Fiber Fabric for Radiant Heating. <i>ACS Nano</i> , 2022, 16, 2577-2584.	7.3	29
14	Intrinsic Wettability in Pristine Graphene (Adv. Mater. 6/2022). <i>Advanced Materials</i> , 2022, 34, .	11.1	5
15	Controllable Growth of Graphene Photonic Crystal Fibers with Tunable Optical Nonlinearity. <i>ACS Photonics</i> , 2022, 9, 961-968.	3.2	7
16	Vertical Graphene-Reinforced Titanium Alloy Bipolar Plates in Fuel Cells. <i>Advanced Materials</i> , 2022, 34, e2110565.	11.1	31
17	Graphene-driving strain engineering to enable strain-free epitaxy of AlN film for deep ultraviolet light-emitting diode. <i>Light: Science and Applications</i> , 2022, 11, 88.	7.7	24
18	Toward Epitaxial Growth of Misorientation-Free Graphene on Cu(111) Foils. <i>ACS Nano</i> , 2022, 16, 285-294.	7.3	40

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19	Freestanding Graphene Fabric Film for Flexible Infrared Camouflage. <i>Advanced Science</i> , 2022, 9, e2105004.	5.6	24
20	Toward Direct Growth of Ultra-flat Graphene. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	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.	4.0	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.	4.5	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.	5.2	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, .	7.8	8
25	Slip-line-Guided Growth of Graphene. <i>Advanced Materials</i> , 2022, 34, e2201188.	11.1	7
26	The Rise of Graphene Photonic Crystal Fibers. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	6
27	Toward batch synthesis of high-quality graphene by cold-wall chemical vapor deposition approach. <i>Nano Research</i> , 2022, 15, 9683-9688.	5.8	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.	11.1	27
29	Ultra-broadband Strong Electromagnetic Interference Shielding with Ferromagnetic Graphene Quartz Fabric. <i>Advanced Materials</i> , 2022, 34, .	11.1	60
30	Complementary Chemical Vapor Deposition Fabrication for Large-area Uniform Graphene Glass Fiber Fabric. <i>Small Methods</i> , 2022, 6, .	4.6	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, .	10.2	49
32	Chiral emission induced by the interaction between chiral phonons and localized plasmon. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	1
33	Doping of Graphene Films: Open the way to Applications in Electronics and Optoelectronics. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	21
34	Altering Local Chemistry of Single-Atom Coordination Boosts Bidirectional Polysulfide Conversion of Li-S Batteries. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	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.	5.8	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.	3.0	15

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37	Oxygen-assisted direct growth of large-domain and high-quality graphene on glass targeting advanced optical filter applications. <i>Nano Research</i> , 2021, 14, 260-267.	5.8	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. <i>Nano Research</i> , 2021, 14, 1413-1420.	5.8	34
39	Enhanced Hemocompatibility of a Direct Chemical Vapor Deposition-Derived Graphene Film. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 4835-4843.	4.0	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. <i>Journal of Materials Chemistry A</i> , 2021, 9, 12109-12118.	5.2	16
41	Chemical vapour deposition. <i>Nature Reviews Methods Primers</i> , 2021, 1, .	11.8	244
42	Decimeter-Scale Atomically Thin Graphene Membranes for Gas-Liquid Separation. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 10328-10335.	4.0	11
43	Synchronous Promotion in Sodiophilicity and Conductivity of Flexible Host via Vertical Graphene Cultivator for Longevous Sodium Metal Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2101233.	7.8	32
44	Graphene-Nanorod Enhanced Quasi-Van Der Waals Epitaxy for High Indium Composition Nitride Films. <i>Small</i> , 2021, 17, e2100098.	5.2	12
45	The Mechanism of Graphene Vapor-Solid Growth on Insulating Substrates. <i>ACS Nano</i> , 2021, 15, 7399-7408.	7.3	23
46	Metallic Transition Metal Dichalcogenides of Group VIB: Preparation, Stabilization, and Energy Applications. <i>Small</i> , 2021, 17, e2005573.	5.2	19
47	Graphene Transfer: Paving the Road for Applications of Chemical Vapor Deposition Graphene. <i>Small</i> , 2021, 17, e2007600.	5.2	68
48	A Robust Ternary Heterostructured Electrocatalyst with Conformal Graphene Chainmail for Expediting Bi-Directional Sulfur Redox in Li-S Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2100586.	7.8	71
49	Chemical Vapor Deposition Synthesis of Graphene over Sapphire Substrates. <i>ChemNanoMat</i> , 2021, 7, 515-525.	1.5	16
50	Hetero-site nucleation for growing twisted bilayer graphene with a wide range of twist angles. <i>Nature Communications</i> , 2021, 12, 2391.	5.8	92
51	Defect Engineering for Expediting Li-S Chemistry: Strategies, Mechanisms, and Perspectives. <i>Advanced Energy Materials</i> , 2021, 11, 2100332.	10.2	143
52	Tunable Pore Size from Sub-Nanometer to a Few Nanometers in Large-Area Graphene Nanoporous Atomically Thin Membranes. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 29926-29935.	4.0	23
53	Theoretical calculation boosting the chemical vapor deposition growth of graphene film. <i>APL Materials</i> , 2021, 9, 060906.	2.2	2
54	Hot-Carrier Cooling in High-Quality Graphene Is Intrinsically Limited by Optical Phonons. <i>ACS Nano</i> , 2021, 15, 11285-11295.	7.3	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.	5.6	28
56	Harmonized edge/graphiticâ€nitrogen doped carbon nanopolyhedron@nanosheet composite via saltâ€confined strategy for advanced <math>K</math>-ion hybrid capacitors. <i>Informaâ€Materiâ€ly</i> , 2021, 3, 891-903.	8.5	18
57	Controllable Synthesis of Waferâ€Scale Graphene Films: Challenges, Status, and Perspectives. <i>Small</i> , 2021, 17, e2008017.	5.2	23
58	Tunable and highly sensitive temperature sensor based on graphene photonic crystal fiber*. <i>Chinese Physics B</i> , 2021, 30, 118103.	0.7	2
59	Van der Waals epitaxy of nearly single-crystalline nitride films on amorphous graphene-glass wafer. <i>Science Advances</i> , 2021, 7, .	4.7	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.	6.6	24
61	Flow characteristics of low pressure chemical vapor deposition in the micro-channel. <i>Physics of Fluids</i> , 2021, 33, 082012.	1.6	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.	7.2	113
63	Designing Newâ€Generation Piezoelectric Transducers by Embedding Superior Grapheneâ€Based Thermal Regulators. <i>Advanced Materials</i> , 2021, 33, e2103141.	11.1	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.	11.1	122
65	Optical detection of the susceptibility tensor in two-dimensional crystals. <i>Communications Physics</i> , 2021, 4, .	2.0	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.	9.5	72
67	Recent Progress on Two-Dimensional Materials. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2021, .	2.2	269
68	Special topic on 2D materials chemistry. <i>APL Materials</i> , 2021, 9, 100401.	2.2	0
69	Toward the commercialization of chemical vapor deposition graphene films. <i>Applied Physics Reviews</i> , 2021, 8, .	5.5	19
70	Hydrophilic, Clean Graphene for Cell Culture and Cryo-EM Imaging. <i>Nano Letters</i> , 2021, 21, 9587-9593.	4.5	7
71	Direct growth of wafer-scale highly oriented graphene on sapphire. <i>Science Advances</i> , 2021, 7, eabk0115.	4.7	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.	7.1	99

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73	Controlled Growth of Single-Crystal Graphene Films. <i>Advanced Materials</i> , 2020, 32, e1903266.	11.1	95
74	Rationalizing Electrocatalysis of Li-S Chemistry by Mediator Design: Progress and Prospects. <i>Advanced Energy Materials</i> , 2020, 10, 1901075.	10.2	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.	7.8	171
76	Understanding Interlayer Contact Conductance in Twisted Bilayer Graphene. <i>Small</i> , 2020, 16, e1902844.	5.2	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.	5.2	20
78	MOF-derived conductive carbon nitrides for separator-modified Li-S batteries and flexible supercapacitors. <i>Journal of Materials Chemistry A</i> , 2020, 8, 1757-1766.	5.2	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.	14.4	90
80	Rational Design of Binary Alloys for Catalytic Growth of Graphene via Chemical Vapor Deposition. <i>Catalysts</i> , 2020, 10, 1305.	1.6	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-S Batteries. <i>Advanced Materials</i> , 2020, 32, e2005967.	11.1	140
82	Highly Conductive Nitrogen-Doped Vertically Oriented Graphene toward Versatile Electrode-Related Applications. <i>ACS Nano</i> , 2020, 14, 15327-15335.	7.3	26
83	Growth of Ultraflat Graphene with Greatly Enhanced Mechanical Properties. <i>Nano Letters</i> , 2020, 20, 6798-6806.	4.5	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.	7.8	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.	7.3	142
86	Optical fibres with embedded two-dimensional materials for ultrahigh nonlinearity. <i>Nature Nanotechnology</i> , 2020, 15, 987-991.	15.6	94
87	New Growth Frontier: Superclean Graphene. <i>ACS Nano</i> , 2020, 14, 10796-10803.	7.3	41
88	High-Performance Li-O <sub>2</sub> Batteries Based on All-Graphene Backbone. <i>Advanced Functional Materials</i> , 2020, 30, 2007218.	7.8	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.	2.7	24
90	Universal <i>In Situ</i> Crafted MO <sub>x</sub> -MXene Heterostructures as Heavy and Multifunctional Hosts for 3D-Printed Li-S Batteries. <i>ACS Nano</i> , 2020, 14, 16073-16084.	7.3	82

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91	Tunable wideband slot antennas based on printable graphene inks. <i>Nanoscale</i> , 2020, 12, 10949-10955.	2.8	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.	10.2	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.	4.5	16
94	Superclean Growth of Graphene Using a Cold-Wall Chemical Vapor Deposition Approach. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 17214-17218.	7.2	28
95	Sandwiched graphene/hBN/graphene photonic crystal fibers with high electro-optical modulation depth and speed. <i>Nanoscale</i> , 2020, 12, 14472-14478.	2.8	12
96	Superclean Growth of Graphene Using a Cold-Wall Chemical Vapor Deposition Approach. <i>Angewandte Chemie</i> , 2020, 132, 17367-17371.	1.6	4
97	Temperature-Mediated Engineering of Graphdiyne Framework Enabling High-Performance Potassium Storage. <i>Advanced Functional Materials</i> , 2020, 30, 2003039.	7.8	62
98	Direct Growth of Nanopatterned Graphene on Sapphire and Its Application in Light Emitting Diodes. <i>Advanced Functional Materials</i> , 2020, 30, 2001483.	7.8	27
99	Large Single-Crystal Cu Foils with High-Index Facets by Strain-Engineered Anomalous Grain Growth. <i>Advanced Materials</i> , 2020, 32, e2002034.	11.1	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.	10.2	172
101	Realization and transport investigation of a single layer-twisted bilayer graphene junction. <i>Carbon</i> , 2020, 163, 105-112.	5.4	4
102	Direct Growth of Graphene over Insulators by Gaseous-Promotor-Assisted CVD: Progress and Prospects. <i>ChemNanoMat</i> , 2020, 6, 483-492.	1.5	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.	5.6	37
104	Directly Grown Vertical Graphene Carpets as Janus Separators toward Stabilized Zn Metal Anodes. <i>Advanced Materials</i> , 2020, 32, e2003425.	11.1	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.	4.5	18
106	Natural Biopolymers for Flexible Sensing and Energy Devices. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2020, 38, 459-490.	2.0	69
107	Ethanol-Precursor-Mediated Growth and Thermo-chromic Applications of Highly Conductive Vertically Oriented Graphene on Soda-Lime Glass. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 11972-11978.	4.0	17
108	Substrate Developments for the Chemical Vapor Deposition Synthesis of Graphene. <i>Advanced Materials Interfaces</i> , 2020, 7, 1902024.	1.9	27

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109	Utilization of Synergistic Effect of Dimensionâ€Differentiated Hierarchical Nanomaterials for Transparent and Flexible Wireless Communicational Elements. <i>Advanced Materials Technologies</i> , 2020, 5, 1901057.	3.0	4
110	MOF-derived hierarchical CoP nanoflakes anchored on vertically erected graphene scaffolds as self-supported and flexible hosts for lithiumâ€sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 3027-3034.	5.2	105
111	In Situ Nâ€Doped Graphene and Mo Nanoribbon Formation from $\text{Mo}_{2}\text{Ti}_{2}\text{C}_{3}$ MXene Monolayers. <i>Small</i> , 2020, 16, e1907115.	5.2	14
112	Rational design of porous nitrogen-doped $\text{Ti}_{3}\text{C}_{2}$ MXene as a multifunctional electrocatalyst for Liâ€S chemistry. <i>Nano Energy</i> , 2020, 70, 104555.	8.2	194
113	Transport signatures of relativistic quantum scars in a graphene cavity. <i>Physical Review B</i> , 2020, 101, .	1.1	3
114	Recent advances in the template-confined synthesis of two-dimensional materials for aqueous energy storage devices. <i>Nanoscale Advances</i> , 2020, 2, 2220-2233.	2.2	23
115	Batch synthesis of transfer-free graphene with wafer-scale uniformity. <i>Nano Research</i> , 2020, 13, 1564-1570.	5.8	22
116	Epitaxial Growth of Centimeter-Scale Single-Crystal $\text{MoS}_{2}$ Monolayer on Au(111). <i>ACS Nano</i> , 2020, 14, 5036-5045.	7.3	211
117	Highlyâ€Safe and Ultraâ€Stable Allâ€Flexible Gel Polymer Lithium Ion Batteries Aiming for Scalable Applications. <i>Advanced Energy Materials</i> , 2020, 10, 1904281.	10.2	48
118	Massive Growth of Graphene Quartz Fiber as a Multifunctional Electrode. <i>ACS Nano</i> , 2020, 14, 5938-5945.	7.3	43
119	Micro-nano hybrid-structured conductive film with ultrawide range pressure-sensitivity and bioelectrical acquirability for ubiquitous wearable applications. <i>Applied Materials Today</i> , 2020, 20, 100651.	2.3	8
120	Expediting the electrochemical kinetics of 3D-printed sulfur cathodes for Liâ€S batteries with high rate capability and areal capacity. <i>Nano Energy</i> , 2020, 75, 104970.	8.2	44
121	Graphene-Based LED: from Principle to Devices. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2020, 36, 1907004-0.	2.2	8
122	Chemical Vapor Deposition Method for Graphene Fiber Materials. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2020, .	2.2	13
123	Graphene Fibers: Preparation, Properties, and Applications. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2020, .	2.2	7
124	Roles of Transition Metal Substrates in Graphene Chemical Vapor Deposition Growth. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2020, .	2.2	3
125	Accelerated Liâ€S chemistry at a cooperative interface built <i>in situ</i> . <i>Journal of Materials Chemistry A</i> , 2019, 7, 20750-20759.	5.2	28
126	Nitrogen cluster doping for high-mobility/conductivity graphene films with millimeter-sized domains. <i>Science Advances</i> , 2019, 5, eaaw8337.	4.7	77



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127	Macroscale single crystal graphene templated directional alignment of liquid-crystal microlens array for light field imaging. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	6
128	Graphene photonic crystal fibre with strong and tunable light-matter interaction. <i>Nature Photonics</i> , 2019, 13, 754-759.	15.6	127
129	Ultrafast Catalyst-Free Graphene Growth on Glass Assisted by Local Fluorine Supply. <i>ACS Nano</i> , 2019, 13, 10272-10278.	7.3	32
130	Large-Area Synthesis of Superclean Graphene via Selective Etching of Amorphous Carbon with Carbon Dioxide. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 14446-14451.	7.2	64
131	Large-Area Synthesis of Superclean Graphene via Selective Etching of Amorphous Carbon with Carbon Dioxide. <i>Angewandte Chemie</i> , 2019, 131, 14588-14593.	1.6	5
132	Versatile N-Doped MXene Ink for Printed Electrochemical Energy Storage Application. <i>Advanced Energy Materials</i> , 2019, 9, 1901839.	10.2	301
133	UV Light-Emitting Diodes: Enhancement of Heat Dissipation in Ultraviolet Light-Emitting Diodes by a Vertically Oriented Graphene Nanowall Buffer Layer ( <i>Adv. Mater.</i> 29/2019). <i>Advanced Materials</i> , 2019, 31, 1970211.	11.1	2
134	Conductive and Catalytic $\text{VTe}_2/\text{MgO}$ Heterostructure as Effective Polysulfide Promotor for Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2019, 13, 13235-13243.	7.3	107
135	Elevated polysulfide regulation by an ultralight all-CVD-built $\text{ReS}_2/\text{N-Doped}$ graphene heterostructure interlayer for lithium-sulfur batteries. <i>Nano Energy</i> , 2019, 66, 104190.	8.2	77
136	Printable magnesium-ion quasi-solid-state asymmetric supercapacitors for flexible solar-charging integrated units. <i>Nature Communications</i> , 2019, 10, 4913.	5.8	162
137	Atomic mechanism of strong interactions at the graphene/sapphire interface. <i>Nature Communications</i> , 2019, 10, 5013.	5.8	31
138	Confining MOF-derived SnSe nanoplatelets in nitrogen-doped graphene cages via direct CVD for durable sodium ion storage. <i>Nano Research</i> , 2019, 12, 3051-3058.	5.8	70
139	Synthesis of Doped Porous 3D Graphene Structures by Chemical Vapor Deposition and Its Applications. <i>Advanced Functional Materials</i> , 2019, 29, 1904457.	7.8	64
140	Frontispiz: Large-Area Synthesis of Superclean Graphene via Selective Etching of Amorphous Carbon with Carbon Dioxide. <i>Angewandte Chemie</i> , 2019, 131, .	1.6	0
141	Frontispiece: Large-Area Synthesis of Superclean Graphene via Selective Etching of Amorphous Carbon with Carbon Dioxide. <i>Angewandte Chemie - International Edition</i> , 2019, 58, .	7.2	2
142	A Force-Engineered Lint Roller for Superclean Graphene. <i>Advanced Materials</i> , 2019, 31, e1902978.	11.1	40
143	Superhydrophilic Graphdiyne Accelerates Interfacial Mass/Electron Transportation to Boost Electrocatalytic and Photoelectrocatalytic Water Oxidation Activity. <i>Advanced Functional Materials</i> , 2019, 29, 1808079.	7.8	95
144	Direct synthesis of flexible graphene glass with macroscopic uniformity enabled by copper-foam-assisted PECVD. <i>Journal of Materials Chemistry A</i> , 2019, 7, 4813-4822.	5.2	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.	7.3	51
146	Carbon Nanomaterial-Based Flexible Batteries for Wearable Electronics. Advanced Materials, 2019, 31, e1800716.	11.1	228
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