Lei Fu

List of Publications by Year
in descending order

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206	11,719	24978	32761
papers	citations	57 h-index	100 g-index

211	211	211	16321
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Direct synthesis of large-area Al-doped graphene by chemical vapor deposition: Advancing the substitutionally doped graphene family. Nano Research, 2022, 15, 1310-1318.	5.8	18
2	General synthesis of 2D rare-earth oxide single crystals with tailorable facets. National Science Review, 2022, 9, nwab153.	4.6	11
3	Ultrafast Singleâ€Crystalâ€toâ€Singleâ€Crystal Transformation from Metalâ€“Organic Framework to 2D Hydroxide. Advanced Materials, 2022, 34, e2106400.	11.1	11
4	Selective Antisite Defect Formation in WS₂ Monolayers via Reactive Growth on Dilute Wâ€Au Alloy Substrates. Advanced Materials, 2022, 34, e2106674.	11.1	14
5	Selective Antisite Defect Formation in WS₂ Monolayers via Reactive Growth on Dilute Wâ€Au Alloy Substrates (Adv. Mater. 3/2022). Advanced Materials, 2022, 34, .	11.1	0
6	Infinite possibilities of ultrathin III-V semiconductors: Starting from synthesis. IScience, 2022, 25, 103835.	1.9	4
7	In Situ Investigating the Mechanism of Graphene Growth by Chemical Vapor Deposition. , 2022, 4, 528-540.		8
8	The Universal Growth of Ultrathin Perovskite Single Crystals. Advanced Materials, 2022, 34, e2108396.	11.1	11
9	Self-assembly pre-occupancy for 2D super-ordered emptiness arrays in graphene. Science China Materials, 2022, 65, 1869-1875.	3.5	1
10	Selfâ€Limiting Synthesis of Ultrathin Ge(110) Single Crystal via Liquid Metal. Small, 2022, 18, e2106341.	5.2	6
11	Dual Selfâ€Built Gating Boosts the Hydrogen Evolution Reaction. Advanced Materials, 2022, 34, e2202479.	11.1	14
12	Emerging Liquid Metal Biomaterials: From Design to Application. Advanced Materials, 2022, 34, e2201956.	11.1	32
13	Exploring Interfaces Through Synchrotron Radiation Characterization Techniques: A Graphene Case. Advanced Functional Materials, 2022, 32, .	7.8	3
14	Chemical insights into two-dimensional quantum materials. Matter, 2022, 5, 2168-2189.	5.0	2
15	Space-confined growth of metal halide perovskite crystal films. Nano Research, 2021, 14, 1609-1624.	5.8	23
16	Growth of 2D MoP single crystals on liquid metals by chemical vapor deposition. Science China Materials, 2021, 64, 1182-1188.	3.5	15
17	Elemental 2D Materials: Progress and Perspectives Toward Unconventional Structures. Small Structures, 2021, 2, 2000101.	6.9	30
18	Touch Ablation of Lithium Dendrites via Liquid Metal for High-Rate and Long-Lived Batteries. CCS Chemistry, 2021, 3, 686-695.	4.6	24

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19	Graphene transfer methods: A review. Nano Research, 2021, 14, 3756-3772.	5.8	95
20	Bubbleâ€Induced In Situ Property Modulation of Liquid Metal. Advanced Materials Interfaces, 2021, 8, 2002204.	1.9	6
21	A Liquid Metal Reaction System for Advanced Material Manufacturing. Accounts of Materials Research, 2021, 2, 669-680.	5.9	23
22	In Situ Investigation of the Motion Behavior of Graphene on Liquid Copper. Advanced Science, 2021, 8, e2100334.	5.6	9
23	In Situ Fabrication of Freestanding Singleâ€Atomâ€Thick 2D Metal/Metallene and 2D Metal/ Metallene Oxide Membranes: Recent Developments. Advanced Science, 2021, 8, e2100619.	5.6	27
24	Seeded growth of 2D materials. Matter, 2021, 4, 2699-2701.	5.0	2
25	2D GaN for Highly Reproducible Surface Enhanced Raman Scattering. Small, 2021, 17, e2103442.	5.2	23
26	Liquid Metals: A Novel Possibility of Fabricating 2D Metal Oxides. Advanced Materials, 2021, 33, e2005544.	11.1	64
27	Bidirectional and reversible tuning of the interlayer spacing of two-dimensional materials. Nature Communications, 2021, 12, 5886.	5.8	42
28	A Superlattice-Stabilized Layered CuS Anode for High-Performance Aqueous Zinc-Ion Batteries. ACS Nano, 2021, 15, 17748-17756.	7.3	62
29	Single-atom catalytic growth of crystals using graphene as a case study. Npj 2D Materials and Applications, 2021, 5, .	3.9	6
30	Engineering Electrocatalytic Microcells for Two-Dimensional Materials. Cell Reports Physical Science, 2020, 1, 100190.	2.8	10
31	Universal growth of ultra-thin IIIâ€“V semiconductor single crystals. Nature Communications, 2020, 11, 3979.	5.8	34
32	MoirÃ© is More: Access to New Properties of Two-Dimensional Layered Materials. Matter, 2020, 3, 1142-1161.	5.0	46
33	Two-dimensional Metal-Organic Frameworks as Electrocatalysts for Oxygen Evolution Reaction. Chemical Research in Chinese Universities, 2020, 36, 504-510.	1.3	22
34	Advances and Trends in Chemically Doped Graphene. Advanced Materials Interfaces, 2020, 7, 2000999.	1.9	58
35	Surface Chemistry of Gallium-Based Liquid Metals. Matter, 2020, 3, 1477-1506.	5.0	98
36	Ultrathin high-Î² antimony oxide single crystals. Nature Communications, 2020, 11, 2502.	5.8	29

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37	Adsorptionâ€Free Growth of Ultraâ€Thin Molybdenum Membranes with a Lowâ€Symmetry Rectangular Lattice Structure. Small, 2020, 16, 2001325.	5.2	7
38	2D Intrinsic Ferromagnetic MnP Single Crystals. Small, 2020, 16, 2001484.	5.2	27
39	Synthesis of Meta Symmetric <scp>1T</scp>â€™â€<scp>WTe₂</scp> Using an <scp>Edgeâ€Induced</scp> Mechanism. Chinese Journal of Chemistry, 2020, 38, 709-713.	2.6	6
40	Phase Engineering of Highâ€Entropy Alloys. Advanced Materials, 2020, 32, e1907226.	11.1	154
41	Magnetically Controlled Onâ€Demand Switching of Batteries. Advanced Science, 2020, 7, 2000184.	5.6	16
42	Substrate Developments for the Chemical Vapor Deposition Synthesis of Graphene. Advanced Materials Interfaces, 2020, 7, 1902024.	1.9	27
43	Bandgap tuning of two-dimensional materials by sphere diameter engineering. Nature Materials, 2020, 19, 528-533.	13.3	80
44	In Situ Nâ€Doped Graphene and Mo Nanoribbon Formation from Mo₂Ti₂C₃ MXene Monolayers. Small, 2020, 16, e1907115.	5.2	14
45	Controllable Growth of Graphene on Liquid Surfaces. Advanced Materials, 2019, 31, e1800690.	11.1	47
46	Engineering 2D Architectures toward Highâ€Performance Microâ€Supercapacitors. Advanced Materials, 2019, 31, e1802793.	11.1	202
47	Vapor-Phase Incommensurate Heteroepitaxy of Oriented Single-Crystal CsPbBr₃ on GaN: Toward Integrated Optoelectronic Applications. ACS Nano, 2019, 13, 10085-10094.	7.3	59
48	Low-temperature synthesis of sp2 carbon nanomaterials. Science Bulletin, 2019, 64, 1817-1829.	4.3	18
49	Precise Vapor-Phase Synthesis of Two-Dimensional Atomic Single Crystals. IScience, 2019, 20, 527-545.	1.9	10
50	A Bright Future for Liquid Functional Materials?. Matter, 2019, 1, 1099-1103.	5.0	18
51	Synthesis of Doped Porous 3D Graphene Structures by Chemical Vapor Deposition and Its Applications. Advanced Functional Materials, 2019, 29, 1904457.	7.8	64
52	Vaporâ€phase growth of highâ€quality waferâ€scale twoâ€dimensional materials. InformaÄ•Ã-MateriÃ¡ly, 2019, 1, 460-478.	8.5	46
53	2D Material Disassembly: Disassembly of 2D Vertical Heterostructures (Adv. Mater. 4/2019). Advanced Materials, 2019, 31, 1970022.	11.1	2
54	Atomicâ€Scale Structural Modification of 2D Materials. Advanced Science, 2019, 6, 1801501.	5.6	39

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55	Electron-Driven In Situ Transmission Electron Microscopy of 2D Transition Metal Dichalcogenides and Their 2D Heterostructures. ACS Nano, 2019, 13, 978-995.	7.3	51
56	GaN in different dimensionalities: Properties, synthesis, and applications. Materials Science and Engineering Reports, 2019, 138, 60-84.	14.8	39
57	Nanophase graphene frameworks. Nanoscale, 2019, 11, 9264-9269.	2.8	4
58	Synthetic strategies of two-dimensional porous materials towards highly effective catalysts. FlatChem, 2019, 15, 100109.	2.8	21
59	Insight into the rapid growth of graphene single crystals on liquid metal via chemical vapor deposition. Science China Materials, 2019, 62, 1087-1095.	3.5	37
60	Regulation of Two-Dimensional Lattice Deformation Recovery. IScience, 2019, 13, 277-283.	1.9	6
61	New Frontiers in Electron Beamâ€“Driven Chemistry in and around Graphene. Advanced Materials, 2019, 31, e1800715.	11.1	36
62	Graphene: Controllable Growth of Graphene on Liquid Surfaces (Adv. Mater. 9/2019). Advanced Materials, 2019, 31, 1970060.	11.1	6
63	Phase engineering of two-dimensional transition metal dichalcogenides. Science China Materials, 2019, 62, 759-775.	3.5	106
64	Novel Insights and Perspectives into Weakly Coupled ReS2 toward Emerging Applications. CheM, 2019, 5, 505-525.	5.8	68
65	Integrating Properties Modification in the Synthesis of Metal Halide Perovskites. Advanced Materials Technologies, 2019, 4, 1800321.	3.0	5
66	Disassembly of 2D Vertical Heterostructures. Advanced Materials, 2019, 31, e1805976.	11.1	12
67	Highly Efficient Photocatalytic Hydrogen Evolution by ReS₂ via a Twoâ€Electron Catalytic Reaction. Advanced Materials, 2018, 30, e1707123.	11.1	90
68	Controllable Chemical Vapor Deposition Growth of Two-Dimensional Heterostructures. CheM, 2018, 4, 671-689.	5.8	84
69	Self-Assembly of Metal Oxide Nanoparticles in Liquid Metal toward Nucleation Control for Graphene Single-Crystal Arrays. CheM, 2018, 4, 626-636.	5.8	25
70	Exploring Two-Dimensional Materials toward the Next-Generation Circuits: From Monomer Design to Assembly Control. Chemical Reviews, 2018, 118, 6236-6296.	23.0	410
71	Ultrahigh Temperature Graphene Molecular Heater. Advanced Materials Interfaces, 2018, 5, 1701299.	1.9	21
72	Epitaxial Singleâ€Layer MoS₂ on GaN with Enhanced Valley Helicity. Advanced Materials, 2018, 30, 1703888.	11.1	80

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73	Biomimetic Graphene-Based 3D Scaffold for Long-Term Cell Culture and Real-Time Electrochemical Monitoring. Analytical Chemistry, 2018, 90, 1136-1141.	3.2	60
74	New designing for nanostructured 2D materials and 2D superlattices. Science China Materials, 2018, 61, 761-762.	3.5	3
75	Applications of Phosphorene and Black Phosphorus in Energy Conversion and Storage Devices. Advanced Energy Materials, 2018, 8, 1702093.	10.2	385
76	Crystalâ€Field Tuning of Photoluminescence in Twoâ€Dimensional Materials with Embedded Lanthanide Ions. Angewandte Chemie - International Edition, 2018, 57, 755-759.	7.2	59
77	Crystalâ€Field Tuning of Photoluminescence in Twoâ€Dimensional Materials with Embedded Lanthanide Ions. Angewandte Chemie, 2018, 130, 763-767.	1.6	1
78	Thermally Induced Bending of ReS₂ Nanowalls. Advanced Materials, 2018, 30, 1704585.	11.1	34
79	Selfâ€Adapting Wettability of ReS₂ under a Constant Stimulus. Advanced Materials, 2018, 30, e1804559.	11.1	13
80	Electrocatalysts: Nanometric Ni5 P4 Clusters Nested on NiCo2 O4 for Efficient Hydrogen Production via Alkaline Water Electrolysis (Adv. Energy Mater. 29/2018). Advanced Energy Materials, 2018, 8, 1870129.	10.2	3
81	Growth of 2D GaN Single Crystals on Liquid Metals. Journal of the American Chemical Society, 2018, 140, 16392-16395.	6.6	183
82	Controllable Fabrication of Graphene and Related Two-Dimensional Materials on Liquid Metals via Chemical Vapor Deposition. Accounts of Chemical Research, 2018, 51, 2839-2847.	7.6	60
83	Inside Cover: Structural Designs for Accommodating Volume Expansion in Sodium Ion Batteries (Chin.) Tj ETQq1 1 0.784314 rgBT /Over	2.6	0
84	NiFe LDH nanodots anchored on 3D macro/mesoporous carbon as a high-performance ORR/OER bifunctional electrocatalyst. Journal of Materials Chemistry A, 2018, 6, 14299-14306.	5.2	147
85	In Situ Room Temperature Electron-Beam Driven Graphene Growth from Hydrocarbon Contamination in a Transmission Electron Microscope. Materials, 2018, 11, 896.	1.3	13
86	Highly Organized Epitaxy of Dirac Semimetallic PtTe₂ Crystals with Extrahigh Conductivity and Visible Surface Plasmons at Edges. ACS Nano, 2018, 12, 9405-9411.	7.3	54
87	Nanometric Ni₅P₄ Clusters Nested on NiCo₂O₄ for Efficient Hydrogen Production via Alkaline Water Electrolysis. Advanced Energy Materials, 2018, 8, 1801690.	10.2	99
88	Stimuliâ€Responsive 2D Materials Beyond Graphene. Advanced Functional Materials, 2018, 28, 1802500.	7.8	54
89	Atomic Scale Materials for Emerging Robust Catalysis. Small Methods, 2018, 2, 1800181.	4.6	10
90	Nitrogen-doping induces tunable magnetism in ReS2. Npj 2D Materials and Applications, 2018, 2, .	3.9	27

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91	Structural Designs for Accommodating Volume Expansion in Sodium Ion Batteries. Chinese Journal of Chemistry, 2018, 36, 866-874.	2.6	10
92	Synthesis of graphene and related two-dimensional materials for bioelectronics devices. Biosensors and Bioelectronics, 2017, 89, 28-42.	5.3	54
93	Ultrasensitive SERS performance in 3D â€œsunflower-likeâ€•nanoarrays decorated with Ag nanoparticles. Nanoscale, 2017, 9, 3114-3120.	2.8	118
94	2D WC single crystal embedded in graphene for enhancing hydrogen evolution reaction. Nano Energy, 2017, 33, 356-362.	8.2	137
95	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
96	Micro-reflectance and transmittance spectroscopy: a versatile and powerful tool to characterize 2D materials. Journal Physics D: Applied Physics, 2017, 50, 074002.	1.3	125
97	Black Phosphorus: Properties, Synthesis, and Applications in Energy Conversion and Storage. ChemNanoMat, 2017, 3, 352-361.	1.5	34
98	Graphene: An Outstanding Multifunctional Coating for Conventional Materials. Small, 2017, 13, 1603337.	5.2	13
99	Water-assisted growth of large-sized single crystal hexagonal boron nitride grains. Materials Chemistry Frontiers, 2017, 1, 1836-1840.	3.2	34
100	Iodine-Mediated Chemical Vapor Deposition Growth of Metastable Transition Metal Dichalcogenides. Chemistry of Materials, 2017, 29, 4641-4644.	3.2	38
101	Van der Waals Epitaxial Growth of Atomic Layered HfS₂ Crystals for Ultrasensitive Nearâ€Infrared Phototransistors. Advanced Materials, 2017, 29, 1700439.	11.1	96
102	Opening Twoâ€Dimensional Materials for Energy Conversion and Storage: A Concept. Advanced Energy Materials, 2017, 7, 1602684.	10.2	304
103	Tuning the Morphology of Li₂O₂ by Noble and 3d metals: A Planar Model Electrode Study for Liâ€“O₂ Battery. ACS Applied Materials & Interfaces, 2017, 9, 19800-19806.	4.0	39
104	Emerging two-dimensional nanomaterials for electrochemical hydrogen evolution. Journal of Materials Chemistry A, 2017, 5, 8187-8208.	5.2	229
105	Hexagonal Boron Nitrideâ€“Graphene Coreâ€“Shell Arrays Formed by Self-Symmetrical Etching Growth. Journal of the American Chemical Society, 2017, 139, 13997-14000.	6.6	25
106	Universal Substrate-Trapping Strategy To Grow Strictly Monolayer Transition Metal Dichalcogenides Crystals. Chemistry of Materials, 2017, 29, 6095-6103.	3.2	40
107	Graphene Conformalâ€Coated Ceramics in Arbitrary Shape Targeting Smart Widgets. Advanced Materials Interfaces, 2017, 4, 1700467.	1.9	3
108	Controllable synthesis of two dimensional heterostructures and their application. Chinese Science Bulletin, 2017, 62, 2262-2278.	0.4	2

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109	Liquid Metal Catalyst: Philosopher's Stone of Two-Dimensional Materials. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2017, 33, 464-475.	2.2	4
110	Extremely Weak van der Waals Coupling in Vertical ReS₂ Nanowalls for Highâ€Currentâ€Density Lithiumâ€Ion Batteries. Advanced Materials, 2016, 28, 2616-2623.	11.1	204
111	Newborn 2D materials for flexible energy conversion and storage. Science China Materials, 2016, 59, 459-474.	3.5	57
112	Phase Conjugated and Transparent Wavelength Conversions of Nyquist 16-QAM Signals Employing a Single-Layer Graphene Coated Fiber Device. Scientific Reports, 2016, 6, 22379.	1.6	7
113	Graphene-assisted multiple-input high-base optical computing. , 2016, , .		1
114	Twinned growth behaviour of two-dimensional materials. Nature Communications, 2016, 7, 13911.	5.8	123
115	Humanâ€Like Sensing and Reflexes of Grapheneâ€Based Films. Advanced Science, 2016, 3, 1600130.	5.6	37
116	Tuning the Morphology and Crystal Structure of Li₂O₂: A Graphene Model Electrode Study for Liâ€“O₂ Battery. ACS Applied Materials & Interfaces, 2016, 8, 21350-21357.	4.0	48
117	Edge-to-Edge Oriented Self-Assembly of ReS₂ Nanoflakes. Journal of the American Chemical Society, 2016, 138, 11101-11104.	6.6	43
118	Ultrafast Self-Limited Growth of Strictly Monolayer WSe₂Crystals. Small, 2016, 12, 5741-5749.	5.2	57
119	Graphene-assisted multiple-input high-base optical computing. Scientific Reports, 2016, 6, 32911.	1.6	20
120	Isotropic Growth of Graphene toward Smoothing Stitching. ACS Nano, 2016, 10, 7189-7196.	7.3	47
121	Monolayer Crystals: Ultrafast Self-Limited Growth of Strictly Monolayer WSe₂ Crystals (Small 41/2016). Small, 2016, 12, 5780-5780.	5.2	0
122	Preface: innovative flexible energy. Science China Materials, 2016, 59, 409-409.	3.5	1
123	Self-Assembly of Graphene Single Crystals with Uniform Size and Orientation: The First 2D Super-Ordered Structure. Journal of the American Chemical Society, 2016, 138, 7812-7815.	6.6	88
124	Controllable Fabrication of Nanostructured Graphene Towards Electronics. Advanced Electronic Materials, 2016, 2, 1500456.	2.6	22
125	Direct Growth of MoS₂/h-BN Heterostructures via a Sulfide-Resistant Alloy. ACS Nano, 2016, 10, 2063-2070.	7.3	139
126	Coral-Inspired Nanoengineering Design for Long-Cycle and Flexible Lithium-Ion Battery Anode. ACS Applied Materials & Interfaces, 2016, 8, 9185-9193.	4.0	22

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127	Controllable Sliding Transfer of Waferâ€Size Graphene. Advanced Science, 2016, 3, 1600006.	5.6	25
128	A pinecone-inspired nanostructure design for long-cycle and high performance Si anodes. Journal of Materials Chemistry A, 2016, 4, 5395-5401.	5.2	12
129	CVD growth of 1D and 2D sp2 carbon nanomaterials. Journal of Materials Science, 2016, 51, 640-667.	1.7	70
130	Uniform graphene on liquid metal by chemical vapour deposition at reduced temperature. Carbon, 2016, 96, 799-804.	5.4	35
131	Graphene-assisted nonlinear optical device for four-wave mixing based tunable wavelength conversion of QPSK signal. Optics Express, 2015, 23, 26158.	1.7	19
132	Experimental demonstration on two-input optical high-base hybrid doubling and subtraction functions in graphene. Optics Express, 2015, 23, 31728.	1.7	14
133	Selfâ€Aligned Singleâ€Crystalline Hexagonal Boron Nitride Arrays: Toward Higher Integrated Electronic Devices. Advanced Electronic Materials, 2015, 1, 1500223.	2.6	46
134	Oxidation as A Means to Remove Surface Contaminants on Cu Foil Prior to Graphene Growth by Chemical Vapor Deposition. Journal of Physical Chemistry C, 2015, 119, 13363-13368.	1.5	57
135	Direct synthesis of graphene from adsorbed organic solvent molecules over copper. RSC Advances, 2015, 5, 60884-60891.	1.7	32
136	Vertical Graphene Growth from Amorphous Carbon Films Using Oxidizing Gases. Journal of Physical Chemistry C, 2015, 119, 17965-17970.	1.5	7
137	3D nitrogen-doped graphene/Î²-cyclodextrin: hostâ€“guest interactions for electrochemical sensing. Nanoscale, 2015, 7, 11922-11927.	2.8	29
138	Interconnected MnO2 nanoflakes assembled on graphene foam as a binder-free and long-cycle life lithium battery anode. Carbon, 2015, 92, 177-184.	5.4	78
139	Design of catalytic substrates for uniform graphene films: from solid-metal to liquid-metal. Nanoscale, 2015, 7, 9105-9121.	2.8	47
140	Chemical Vapor Deposition (CVD) of Graphene for Four-Wave-Mixing (FWM) Based QPSK Wavelength Conversion. , 2015, , .		0
141	Li-storage performance of binder-free and flexible iron fluoride@graphene cathodes. Journal of Materials Chemistry A, 2015, 3, 23930-23935.	5.2	29
142	Fully Converting Graphite into Graphene Oxide Hydrogels by Preoxidation with Impure Manganese Dioxide. ACS Applied Materials & Interfaces, 2015, 7, 21356-21363.	4.0	55
143	Synthesis of sulfur encapsulated 3D graphene sponge driven by micro-pump and its application in Liâ€“S battery. Journal of Materiomics, 2015, 1, 333-339.	2.8	7
144	Growth of Uniform Monolayer Graphene Using Iron-Group Metals via the Formation of an Antiperovskite Layer. Chemistry of Materials, 2015, 27, 8230-8236.	3.2	23

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145	Direct Growth of Ultrafast Transparent Single-Layer Graphene Defoggers. Small, 2015, 11, 1840-1846.	5.2	92
146	Direct growth of molybdenum disulfide on arbitrary insulating surfaces by chemical vapor deposition. RSC Advances, 2015, 5, 4364-4367.	1.7	31
147	A three-dimensional nitrogen-doped graphene structure: a highly efficient carrier of enzymes for biosensors. Nanoscale, 2015, 7, 1290-1295.	2.8	56
148	Controllable growth of single-crystal graphene. Chinese Science Bulletin, 2015, 60, 2091-2107.	0.4	1
149	Structure design of graphene based electrode materials and its application in secondary battery. Zhongguo Kexue Jishu Kexue/Scientia Sinica Technologica, 2015, 45, 1227-1244.	0.3	0
150	MoirÃ© patterns and step edges on few-layer graphene grown on nickel films. Chinese Physics B, 2014, 23, 116801.	0.7	4
151	Supercritical Carbon Dioxide Anchored Fe₃O₄ Nanoparticles on Graphene Foam and Lithium Battery Performance. ACS Applied Materials & Interfaces, 2014, 6, 22527-22533.	4.0	86
152	Controllable Coâ€segregation Synthesis of Waferâ€scale Hexagonal Boron Nitride Thin Films. Advanced Materials, 2014, 26, 1776-1781.	11.1	87
153	Liquid Metal: An Innovative Solution to Uniform Graphene Films. Chemistry of Materials, 2014, 26, 3637-3643.	3.2	86
154	Direct in situ observations of single Fe atom catalytic processes and anomalous diffusion at graphene edges. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 15641-15646.	3.3	100
155	â€œRings of saturn-likeâ€•nanoarrays with high number density of hot spots for surface-enhanced Raman scattering. Applied Physics Letters, 2014, 105, 033515.	1.5	21
156	Graphene Coatings for the Mitigation of Electron Stimulated Desorption and Fullerene Cap Formation. Chemistry of Materials, 2014, 26, 4998-5003.	3.2	5
157	In situ observations of Pt nanoparticles coalescing inside carbon nanotubes. RSC Advances, 2014, 4, 49442-49445.	1.7	6
158	Obviously Angular, Cuboid-Shaped TiO2 Nanowire Arrays Decorated with Ag Nanoparticle as Ultrasensitive 3D Surface-Enhanced Raman Scattering Substrates. Journal of Physical Chemistry C, 2014, 118, 22711-22718.	1.5	30
159	Carbide-Forming Groups IVB-VIB Metals: A New Territory in the Periodic Table for CVD Growth of Graphene. Nano Letters, 2014, 14, 3832-3839.	4.5	84
160	Designed CVD Growth of Graphene via Process Engineering. Accounts of Chemical Research, 2013, 46, 2263-2274.	7.6	172
161	Insights into the Early Growth of Homogeneous Single-Layer Graphene over Niâ€“Mo Binary Substrates. Chemistry of Materials, 2013, 25, 3880-3887.	3.2	27
162	Few-Layer Graphene Shells and Nonmagnetic Encapsulates: A Versatile and Nontoxic Carbon Nanomaterial. ACS Nano, 2013, 7, 10552-10562.	7.3	46

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163	CVD Growth of Large Area Smooth-edged Graphene Nanomesh by Nanosphere Lithography. Scientific Reports, 2013, 3, 1238.	1.6	111
164	High-mobility graphene on liquid p-block elements by ultra-low-loss CVD growth. Scientific Reports, 2013, 3, 2670.	1.6	75
165	Segregation Phenomenon and Its Control in the Catalytic Growth of Graphene. Acta Chimica Sinica, 2013, 71, 308.	0.5	12
166	Preparation, characterization, and application of electrochemically functional graphene nanocomposites by one-step liquid-phase exfoliation of natural flake graphite with methylene blue. Nano Research, 2012, 5, 875-887.	5.8	38
167	Programmable Sub-nanometer Sculpting of Graphene with Electron Beams. ACS Nano, 2012, 6, 10327-10334.	7.3	53
168	Different growth behaviors of ambient pressure chemical vapor deposition graphene on Ni(111) and Ni films: A scanning tunneling microscopy study. Nano Research, 2012, 5, 402-411.	5.8	59
169	Electrochemically functional graphene nanostructure and layer-by-layer nanocomposite incorporating adsorption of electroactive methylene blue. Electrochimica Acta, 2012, 75, 71-79.	2.6	35
170	Wrinkle Engineering: A New Approach to Massive Graphene Nanoribbon Arrays. Journal of the American Chemical Society, 2011, 133, 17578-17581.	6.6	142
171	Universal Segregation Growth Approach to Wafer-Size Graphene from Non-Noble Metals. Nano Letters, 2011, 11, 297-303.	4.5	239
172	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
173	Segregation Growth of Graphene on Cuâ€“Ni Alloy for Precise Layer Control. Journal of Physical Chemistry C, 2011, 115, 11976-11982.	1.5	188
174	High-quality single-layer graphene via reparative reduction of graphene oxide. Nano Research, 2011, 4, 434-439.	5.8	91
175	Scanning tunneling microscope observations of non-AB stacking of graphene on Ni films. Nano Research, 2011, 4, 712-721.	5.8	35
176	The origin of wrinkles on transferred graphene. Nano Research, 2011, 4, 996-1004.	5.8	211
177	Synthesis of Nitrogenâ€Doped Graphene Using Embedded Carbon and Nitrogen Sources. Advanced Materials, 2011, 23, 1020-1024.	11.1	735
178	A General Electrochemical Strategy for Synthesizing Chargeâ€Transfer Complex Micro/Nanowires. Advanced Functional Materials, 2010, 20, 1209-1223.	7.8	25
179	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
180	Fabrication and characterization of molecular scale field-effect transistors. Journal of Materials Chemistry, 2010, 20, 2305.	6.7	16

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