

Wencai Ren

List of Publications by Year in descending order

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191
papers

39,297
citations

8732

75
h-index

3094

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all docs

193
docs citations

193
times ranked

39593
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-dimensional flexible and conductive interconnected graphene networks grown by chemical vapour deposition. <i>Nature Materials</i> , 2011, 10, 424-428.	13.3	3,493
2	Graphene Anchored with Co_3O_4 Nanoparticles as Anode of Lithium Ion Batteries with Enhanced Reversible Capacity and Cyclic Performance. <i>ACS Nano</i> , 2010, 4, 3187-3194.	7.3	2,358
3	Doped Graphene Sheets As Anode Materials with Superhigh Rate and Large Capacity for Lithium Ion Batteries. <i>ACS Nano</i> , 2011, 5, 5463-5471.	7.3	1,904
4	Lightweight and Flexible Graphene Foam Composites for High-Performance Electromagnetic Interference Shielding. <i>Advanced Materials</i> , 2013, 25, 1296-1300.	11.1	1,703
5	Graphene/metal oxide composite electrode materials for energy storage. <i>Nano Energy</i> , 2012, 1, 107-131.	8.2	1,669
6	Fabrication of Graphene/Polyaniline Composite Paper <i>via</i> <i>In Situ</i> Anodic Electropolymerization for High-Performance Flexible Electrode. <i>ACS Nano</i> , 2009, 3, 1745-1752.	7.3	1,464
7	Direct reduction of graphene oxide films into highly conductive and flexible graphene films by hydrohalic acids. <i>Carbon</i> , 2010, 48, 4466-4474.	5.4	1,459
8	High-Energy MnO_2 Nanowire/Graphene and Graphene Asymmetric Electrochemical Capacitors. <i>ACS Nano</i> , 2010, 4, 5835-5842.	7.3	1,448
9	Fluorographene: A Two-Dimensional Counterpart of Teflon. <i>Small</i> , 2010, 6, 2877-2884.	5.2	1,146
10	Anchoring Hydrous RuO_2 on Graphene Sheets for High-Performance Electrochemical Capacitors. <i>Advanced Functional Materials</i> , 2010, 20, 3595-3602.	7.8	1,122
11	Large-area high-quality 2D ultrathin Mo_2C superconducting crystals. <i>Nature Materials</i> , 2015, 14, 1135-1141.	13.3	1,045
12	Repeated growth and bubbling transfer of graphene with millimetre-size single-crystal grains using platinum. <i>Nature Communications</i> , 2012, 3, 699.	5.8	985
13	Efficient Preparation of Large-Area Graphene Oxide Sheets for Transparent Conductive Films. <i>ACS Nano</i> , 2010, 4, 5245-5252.	7.3	869
14	Synthesis of Graphene Sheets with High Electrical Conductivity and Good Thermal Stability by Hydrogen Arc Discharge Exfoliation. <i>ACS Nano</i> , 2009, 3, 411-417.	7.3	807
15	Flexible graphene-based lithium ion batteries with ultrafast charge and discharge rates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 17360-17365.	3.3	728
16	Synthesis of high-quality graphene with a pre-determined number of layers. <i>Carbon</i> , 2009, 47, 493-499.	5.4	650
17	Direct observation of the layer-dependent electronic structure in phosphorene. <i>Nature Nanotechnology</i> , 2017, 12, 21-25.	15.6	625
18	Field Emission of Single-Layer Graphene Films Prepared by Electrophoretic Deposition. <i>Advanced Materials</i> , 2009, 21, 1756-1760.	11.1	624

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19	Chemical vapor deposition of layered two-dimensional MoSi ₂ N ₄ materials. <i>Science</i> , 2020, 369, 670-674.	6.0	556
20	A graphene foam electrode with high sulfur loading for flexible and high energy Li-S batteries. <i>Nano Energy</i> , 2015, 11, 356-365.	8.2	526
21	3D Graphene-Foam-Reduced-Graphene-Oxide Hybrid Nested Hierarchical Networks for High-Performance Li-S Batteries. <i>Advanced Materials</i> , 2016, 28, 1603-1609.	11.1	497
22	Graphene sponge for efficient and repeatable adsorption and desorption of water contaminations. <i>Journal of Materials Chemistry</i> , 2012, 22, 20197.	6.7	478
23	Green synthesis of graphene oxide by seconds timescale water electrolytic oxidation. <i>Nature Communications</i> , 2018, 9, 145.	5.8	468
24	Highly stable graphene-oxide-based membranes with superior permeability. <i>Nature Communications</i> , 2018, 9, 1486.	5.8	428
25	The global growth of graphene. <i>Nature Nanotechnology</i> , 2014, 9, 726-730.	15.6	391
26	Overview of the synthesis of MXenes and other ultrathin 2D transition metal carbides and nitrides. <i>Current Opinion in Solid State and Materials Science</i> , 2019, 23, 149-163.	5.6	353
27	Large-area synthesis of high-quality and uniform monolayer WS ₂ on reusable Au foils. <i>Nature Communications</i> , 2015, 6, 8569.	5.8	336
28	Scalable Clean Exfoliation of High-Quality Few-Layer Black Phosphorus for a Flexible Lithium Ion Battery. <i>Advanced Materials</i> , 2016, 28, 510-517.	11.1	336
29	One-Step Device Fabrication of Phosphorene and Graphene Interdigital Micro-Supercapacitors with High Energy Density. <i>ACS Nano</i> , 2017, 11, 7284-7292.	7.3	312
30	Superhigh Electromagnetic Interference Shielding of Ultrathin Aligned Pristine Graphene Nanosheets Film. <i>Advanced Materials</i> , 2020, 32, e1907411.	11.1	310
31	Phosphorene as a Polysulfide Immobilizer and Catalyst in High-Performance Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2017, 29, 1602734.	11.1	289
32	A Review of Carbon Nanotube- and Graphene-Based Flexible Thin-Film Transistors. <i>Small</i> , 2013, 9, 1188-1205.	5.2	268
33	Metal-Catalyst-Free Growth of Single-Walled Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , 2009, 131, 2082-2083.	6.6	258
34	Elemental superdoping of graphene and carbon nanotubes. <i>Nature Communications</i> , 2016, 7, 10921.	5.8	238
35	Nitrogen-Superdoped 3D Graphene Networks for High-Performance Supercapacitors. <i>Advanced Materials</i> , 2017, 29, 1701677.	11.1	230
36	Edge-controlled growth and kinetics of single-crystal graphene domains by chemical vapor deposition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 20386-20391.	3.3	213

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37	High efficiency and fast van der Waals hetero-photodiodes with a unilateral depletion region. <i>Nature Communications</i> , 2019, 10, 4663.	5.8	213
38	Repeated and Controlled Growth of Monolayer, Bilayer and Few-Layer Hexagonal Boron Nitride on Pt Foils. <i>ACS Nano</i> , 2013, 7, 5199-5206.	7.3	206
39	Hydrogen adsorption behavior of graphene above critical temperature. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 2329-2332.	3.8	203
40	Intercalated architecture of MA2Z4 family layered van der Waals materials with emerging topological, magnetic and superconducting properties. <i>Nature Communications</i> , 2021, 12, 2361.	5.8	199
41	Ultrahigh-voltage integrated micro-supercapacitors with designable shapes and superior flexibility. <i>Energy and Environmental Science</i> , 2019, 12, 1534-1541.	15.6	192
42	Rosin-enabled ultraclean and damage-free transfer of graphene for large-area flexible organic light-emitting diodes. <i>Nature Communications</i> , 2017, 8, 14560.	5.8	184
43	Superhydrophobic Graphene Foams. <i>Small</i> , 2013, 9, 75-80.	5.2	183
44	High-valence Nickel Single-Atom Catalysts Coordinated to Oxygen Sites for Extraordinarily Activating Oxygen Evolution Reaction. <i>Advanced Science</i> , 2020, 7, 1903089.	5.6	182
45	Efficient growth of high-quality graphene films on Cu foils by ambient pressure chemical vapor deposition. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	176
46	Synthesis and upconversion luminescence of N-doped graphene quantum dots. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	173
47	Synergistic Effect of Aligned Graphene Nanosheets in Graphene Foam for High-Performance Thermally Conductive Composites. <i>Advanced Materials</i> , 2019, 31, e1900199.	11.1	173
48	Efficient and scalable synthesis of highly aligned and compact two-dimensional nanosheet films with record performances. <i>Nature Communications</i> , 2018, 9, 3484.	5.8	165
49	Electrochemical interfacial capacitance in multilayer graphene sheets: Dependence on number of stacking layers. <i>Electrochemistry Communications</i> , 2009, 11, 1729-1732.	2.3	160
50	Tailoring the thermal and electrical transport properties of graphene films by grain size engineering. <i>Nature Communications</i> , 2017, 8, 14486.	5.8	154
51	Free-standing integrated cathode derived from 3D graphene/carbon nanotube aerogels serving as binder-free sulfur host and interlayer for ultrahigh volumetric-energy-density lithium sulfur batteries. <i>Nano Energy</i> , 2019, 60, 743-751.	8.2	151
52	Ultrathin 2D Transition Metal Carbides for Ultrafast Pulsed Fiber Lasers. <i>ACS Photonics</i> , 2018, 5, 1808-1816.	3.2	148
53	Efficient synthesis of graphene nanoribbons sonochemically cut from graphene sheets. <i>Nano Research</i> , 2010, 3, 16-22.	5.8	143
54	Morphology, diameter distribution and Raman scattering measurements of double-walled carbon nanotubes synthesized by catalytic decomposition of methane. <i>Chemical Physics Letters</i> , 2002, 359, 196-202.	1.2	139

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55	Ultrafast Growth of High-Quality Monolayer WSe ₂ on Au. <i>Advanced Materials</i> , 2017, 29, 1700990.	11.1	139
56	Total Color Difference for Rapid and Accurate Identification of Graphene. <i>ACS Nano</i> , 2008, 2, 1625-1633.	7.3	135
57	Controlling reduction degree of graphene oxide membranes for improved water permeance. <i>Science Bulletin</i> , 2018, 63, 788-794.	4.3	131
58	AsP/InSe Van der Waals Tunneling Heterojunctions with Ultrahigh Reverse Rectification Ratio and High Photosensitivity. <i>Advanced Functional Materials</i> , 2019, 29, 1900314.	7.8	121
59	CdPS ₃ nanosheets-based membrane with high proton conductivity enabled by Cd vacancies. <i>Science</i> , 2020, 370, 596-600.	6.0	120
60	Coordination-controlled single-atom tungsten as a non-3d-metal oxygen reduction reaction electrocatalyst with ultrahigh mass activity. <i>Nano Energy</i> , 2019, 60, 394-403.	8.2	119
61	Stabilized hydroxide-mediated nickel-based electrocatalysts for high-current-density hydrogen evolution in alkaline media. <i>Energy and Environmental Science</i> , 2021, 14, 4610-4619.	15.6	118
62	Importance of Oxygen in the Metal-Free Catalytic Growth of Single-Walled Carbon Nanotubes from SiO ₂ by a Vapor-Solid-Solid Mechanism. <i>Journal of the American Chemical Society</i> , 2011, 133, 197-199.	6.6	116
63	A Ta-TaS ₂ monolith catalyst with robust and metallic interface for superior hydrogen evolution. <i>Nature Communications</i> , 2021, 12, 6051.	5.8	112
64	Strongly Coupled High-Quality Graphene/2D Superconducting Mo ₂ C Vertical Heterostructures with Aligned Orientation. <i>ACS Nano</i> , 2017, 11, 5906-5914.	7.3	110
65	NiPS ₃ Nanosheet-Graphene Composites as Highly Efficient Electrocatalysts for Oxygen Evolution Reaction. <i>ACS Nano</i> , 2018, 12, 5297-5305.	7.3	104
66	A Durable and Efficient Electrocatalyst for Saline Water Splitting with Current Density Exceeding 2000 A cm ⁻² . <i>Advanced Functional Materials</i> , 2021, 31, 2010367.	7.8	102
67	Unique Domain Structure of Two-Dimensional $\sqrt{3}\times\sqrt{3}$ -Mo ₂ C Superconducting Crystals. <i>Nano Letters</i> , 2016, 16, 4243-4250.	4.5	101
68	Repeated Growth-Etching-Regrowth for Large-Area Defect-Free Single-Crystal Graphene by Chemical Vapor Deposition. <i>ACS Nano</i> , 2014, 8, 12806-12813.	7.3	100
69	Bulk growth of mono- to few-layer graphene on nickel particles by chemical vapor deposition from methane. <i>Carbon</i> , 2010, 48, 3543-3550.	5.4	96
70	Obtaining High Localized Spin Magnetic Moments by Fluorination of Reduced Graphene Oxide. <i>ACS Nano</i> , 2013, 7, 6729-6734.	7.3	94
71	Diameter-Selective Growth of Single-Walled Carbon Nanotubes with High Quality by Floating Catalyst Method. <i>ACS Nano</i> , 2008, 2, 1722-1728.	7.3	88
72	Surface and Interference Coenhanced Raman Scattering of Graphene. <i>ACS Nano</i> , 2009, 3, 933-939.	7.3	87

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73	Predicted septuple-atomic-layer Janus MSiGeN ₄ (M = Mo and W) monolayers with Rashba spin splitting and high electron carrier mobilities. <i>Journal of Materials Chemistry C</i> , 2021, 9, 2464-2473.	2.7	86
74	Tuning the Electrical and Optical Properties of Graphene by Ozone Treatment for Patterning Monolithic Transparent Electrodes. <i>ACS Nano</i> , 2013, 7, 4233-4241.	7.3	84
75	A gradient bi-functional graphene-based modified electrode for vanadium redox flow batteries. <i>Energy Storage Materials</i> , 2018, 13, 66-71.	9.5	84
76	Reduced graphene oxide/metal oxide nanoparticles composite membranes for highly efficient molecular separation. <i>Journal of Materials Science and Technology</i> , 2018, 34, 1481-1486.	5.6	79
77	Edge phonon state of mono- and few-layer graphene nanoribbons observed by surface and interference co-enhanced Raman spectroscopy. <i>Physical Review B</i> , 2010, 81, .	1.1	77
78	Quantitative Analysis of Temperature Dependence of Raman shift of monolayer WS ₂ . <i>Scientific Reports</i> , 2016, 6, 32236.	1.6	77
79	Growth Velocity and Direct Length-Sorted Growth of Short Single-Walled Carbon Nanotubes by a Metal-Catalyst-Free Chemical Vapor Deposition Process. <i>ACS Nano</i> , 2009, 3, 3421-3430.	7.3	76
80	Graphene and other two-dimensional materials. <i>Frontiers of Physics</i> , 2019, 14, 1.	2.4	72
81	A LiF Nanoparticle-Modified Graphene Electrode for High-Power and High-Energy Lithium Ion Batteries. <i>Advanced Functional Materials</i> , 2012, 22, 3290-3297.	7.8	70
82	Synthesis of different magnetic carbon nanostructures by the pyrolysis of ferrocene at different sublimation temperatures. <i>Carbon</i> , 2008, 46, 1892-1902.	5.4	69
83	Magnetotransport Properties in High-Quality Ultrathin Two-Dimensional Superconducting Mo ₂ C Crystals. <i>ACS Nano</i> , 2016, 10, 4504-4510.	7.3	69
84	Intrinsic piezoelectricity in monolayer MSi ₂ N ₄ (M=Mo, W, Cr, Ti, Zr and Hf). <i>Europhysics Letters</i> , 2020, 132, 57002.	0.7	69
85	Crystallographic Tailoring of Graphene by Nonmetal SiO _x Nanoparticles. <i>Journal of the American Chemical Society</i> , 2009, 131, 13934-13936.	6.6	68
86	Effects of edge on graphene plasmons as revealed by infrared nanoimaging. <i>Light: Science and Applications</i> , 2017, 6, e16204-e16204.	7.7	68
87	Transfer Methods of Graphene from Metal Substrates: A Review. <i>Small Methods</i> , 2019, 3, 1900049.	4.6	67
88	The Effect of Sulfur on the Structure of Carbon Nanotubes Produced by a Floating Catalyst Method. <i>Journal of Nanoscience and Nanotechnology</i> , 2006, 6, 1339-1345.	0.9	62
89	The doping of reduced graphene oxide with nitrogen and its effect on the quenching of the material's photoluminescence. <i>Carbon</i> , 2012, 50, 5286-5291.	5.4	62
90	Direct synthesis of carbon nanotubes decorated with size-controllable Fe nanoparticles encapsulated by graphitic layers. <i>Carbon</i> , 2008, 46, 1417-1423.	5.4	57

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91	Second Time-Scale Synthesis of High-Quality Graphite Films by Quenching for Effective Electromagnetic Interference Shielding. <i>ACS Nano</i> , 2020, 14, 3121-3128.	7.3	57
92	Semiconducting properties of cup-stacked carbon nanotubes. <i>Carbon</i> , 2009, 47, 731-736.	5.4	56
93	Tuning the Excitonic States in MoS ₂ /Graphene van der Waals Heterostructures via Electrochemical Gating. <i>Advanced Functional Materials</i> , 2016, 26, 293-302.	7.8	56
94	Tailoring of electromagnetic field localizations by two-dimensional graphene nanostructures. <i>Light: Science and Applications</i> , 2017, 6, e17057-e17057.	7.7	56
95	Layer-dependent dielectric and optical properties of centimeter-scale 2D WSe ₂ : evolution from a single layer to few layers. <i>Nanoscale</i> , 2019, 11, 22762-22771.	2.8	55
96	Proton and Li-Ion Permeation through Graphene with Eight-Atom-Ring Defects. <i>ACS Nano</i> , 2020, 14, 7280-7286.	7.3	55
97	Graphene Thermal Emitter with Enhanced Joule Heating and Localized Light Emission in Air. <i>ACS Photonics</i> , 2019, 6, 2117-2125.	3.2	53
98	Synthesis and High Thermal Stability of Double-Walled Carbon Nanotubes Using Nickel Formate Dihydrate as Catalyst Precursor. <i>Journal of Physical Chemistry C</i> , 2007, 111, 5006-5013.	1.5	50
99	Superiority of Graphene over Polymer Coatings for Prevention of Microbially Induced Corrosion. <i>Scientific Reports</i> , 2015, 5, 13858.	1.6	50
100	Electric Field Tunable Interlayer Relaxation Process and Interlayer Coupling in WSe ₂ /Graphene Heterostructures. <i>Advanced Functional Materials</i> , 2016, 26, 4319-4328.	7.8	47
101	Aligned Double-Walled Carbon Nanotube Long Ropes with a Narrow Diameter Distribution. <i>Journal of Physical Chemistry B</i> , 2005, 109, 7169-7173.	1.2	45
102	Evidence for, and an Understanding of, the Initial Nucleation of Carbon Nanotubes Produced by a Floating Catalyst Method. <i>Journal of Physical Chemistry B</i> , 2006, 110, 16941-16946.	1.2	45
103	Polymer-coated graphene films as anti-reflective transparent electrodes for Schottky junction solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13795-13802.	5.2	44
104	Ultrafast growth of nanocrystalline graphene films by quenching and grain-size-dependent strength and bandgap opening. <i>Nature Communications</i> , 2019, 10, 4854.	5.8	43
105	Interlayer epitaxy of wafer-scale high-quality uniform AB-stacked bilayer graphene films on liquid Pt ₃ Si/solid Pt. <i>Nature Communications</i> , 2019, 10, 2809.	5.8	43
106	Plasmon-Resonant Enhancement of Photocatalysis on Monolayer WSe ₂ . <i>ACS Photonics</i> , 2019, 6, 787-792.	3.2	43
107	Quenching of fluorescence of reduced graphene oxide by nitrogen-doping. <i>Applied Physics Letters</i> , 2012, 100, 233112.	1.5	41
108	Chirality-Dependent Reactivity of Individual Single-Walled Carbon Nanotubes. <i>Small</i> , 2013, 9, 1379-1386.	5.2	41

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109	<i>In Situ</i> Assembly of Multi-Sheeted Buckybooks from Single-Walled Carbon Nanotubes. <i>ACS Nano</i> , 2009, 3, 707-713.	7.3	39
110	2D hierarchical yolk-shell heterostructures as advanced host-interlayer integrated electrode for enhanced Li-S batteries. <i>Journal of Energy Chemistry</i> , 2019, 36, 64-73.	7.1	39
111	Identification of the constituents of double-walled carbon nanotubes using Raman spectra taken with different laser-excitation energies. <i>Journal of Materials Research</i> , 2003, 18, 1251-1258.	1.2	38
112	Manganese-Catalyzed Surface Growth of Single-Walled Carbon Nanotubes with High Efficiency. <i>Journal of Physical Chemistry C</i> , 2008, 112, 19231-19235.	1.5	37
113	Double-Balanced Graphene Integrated Mixer with Outstanding Linearity. <i>Nano Letters</i> , 2015, 15, 6677-6682.	4.5	37
114	Direct writing of graphene patterns and devices on graphene oxide films by inkjet reduction. <i>Nano Research</i> , 2015, 8, 3954-3962.	5.8	37
115	A vertical silicon-graphene-germanium transistor. <i>Nature Communications</i> , 2019, 10, 4873.	5.8	37
116	Heterostructured Ni-Mo nanoparticles decorated on reduced graphene oxide as efficient and robust electrocatalyst for hydrogen evolution reaction. <i>Carbon</i> , 2020, 165, 122-128.	5.4	37
117	An ultrasensitive molybdenum-based double-heterojunction phototransistor. <i>Nature Communications</i> , 2021, 12, 4094.	5.8	37
118	Unlocking the dissolution mechanism of phosphorus anode for lithium-ion batteries. <i>Energy Storage Materials</i> , 2021, 37, 417-423.	9.5	36
119	Water-assisted rapid growth of monolayer graphene films on SiO ₂ /Si substrates. <i>Carbon</i> , 2019, 148, 241-248.	5.4	35
120	When two is better than one. <i>Nature</i> , 2013, 497, 448-449.	13.7	34
121	Palladium nanoparticles supported on graphene acid: a stable and eco-friendly bifunctional C-C homo- and cross-coupling catalyst. <i>Green Chemistry</i> , 2019, 21, 5238-5247.	4.6	33
122	Flexible 64 Å— 64 Pixel AMOLED Displays Driven by Uniform Carbon Nanotube Thin-Film Transistors. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 11699-11705.	4.0	33
123	Extremely efficient flexible organic solar cells with a graphene transparent anode: Dependence on number of layers and doping of graphene. <i>Carbon</i> , 2021, 171, 350-358.	5.4	33
124	All-Carbon Thin-Film Transistors as a Step Towards Flexible and Transparent Electronics. <i>Advanced Electronic Materials</i> , 2016, 2, 1600229.	2.6	32
125	Double-walled carbon nanotubes synthesized using carbon black as the dot carbon source. <i>Nanotechnology</i> , 2006, 17, 3100-3104.	1.3	29
126	A Double Support Layer for Facile Clean Transfer of Two-Dimensional Materials for High-Performance Electronic and Optoelectronic Devices. <i>ACS Nano</i> , 2019, 13, 5513-5522.	7.3	29

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127	A graphene field-effect capacitor sensor in electrolyte. Applied Physics Letters, 2012, 101, .	1.5	28
128	Phase transition and in situ construction of lateral heterostructure of 2D superconducting $\hat{I}\pm\hat{I}^2$ Mo ₂ C with sharp interface by electron beam irradiation. Nanoscale, 2017, 9, 7501-7507.	2.8	28
129	Transfer-free CVD graphene for highly sensitive glucose sensors. Journal of Materials Science and Technology, 2020, 37, 71-76.	5.6	28
130	Pushing the conductance and transparency limit of monolayer graphene electrodes for flexible organic light-emitting diodes. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 25991-25998.	3.3	28
131	High Yield Controlled Synthesis of Nano-Graphene Oxide by Water Electrolytic Oxidation of Glassy Carbon for Metal-Free Catalysis. ACS Nano, 2019, 13, 9482-9490.	7.3	25
132	Enhanced toughness of multilayer graphene-filled poly(Vinyl chloride) composites prepared using melt-mixing method. Polymer Composites, 2017, 38, 138-146.	2.3	21
133	Layer-Stacking, Defects, and Robust Superconductivity on the Mo-Terminated Surface of Ultrathin Mo ₂ C Flakes Grown by CVD. Nano Letters, 2019, 19, 3327-3335.	4.5	21
134	Nonlinear electrohydrodynamic ion transport in graphene nanopores. Science Advances, 2022, 8, eabj2510.	4.7	21
135	Spatial mobility fluctuation induced giant linear magnetoresistance in multilayered graphene foam. Physical Review B, 2016, 94, .	1.1	19
136	Ultrathin $\hat{I}\pm$ -Mo ₂ C dominated by (100) Surface/Cu Schottky junction as efficient catalyst for hydrogen evolution. International Journal of Hydrogen Energy, 2019, 44, 853-859.	3.8	19
137	Advances in Flexible Optoelectronics Based on Chemical Vapor Deposition-Grown Graphene. Advanced Functional Materials, 2022, 32, .	7.8	19
138	UV-Epoxy-Enabled Simultaneous Intact Transfer and Highly Efficient Doping for Roll-to-Roll Production of High-Performance Graphene Films. ACS Applied Materials & Interfaces, 2018, 10, 40756-40763.	4.0	18
139	Grain Boundaries and Tilt-Angle-Dependent Transport Properties of a 2D Mo ₂ C Superconductor. Nano Letters, 2019, 19, 857-865.	4.5	18
140	Surface passivation induced a significant enhancement of superconductivity in layered two-dimensional MSi ₂ N ₄ (M = Ta and Nb) materials. Nanoscale, 2021, 13, 18947-18954.	2.8	18
141	Intrinsic piezoelectric ferromagnetism with large out-of-plane piezoelectric response in Janus monolayer CrBr _{1.5} I _{1.5} . Journal of Applied Physics, 2021, 129, .	1.1	17
142	Scalable residue-free graphene for surface-enhanced Raman scattering. Carbon, 2016, 98, 567-571.	5.4	16
143	Raman evidence for atomic correlation between the two constituent tubes in double-walled carbon nanotubes. Physical Review B, 2006, 73, .	1.1	15
144	Synthesis, Purification and Opening of Short Cup-Stacked Carbon Nanotubes. Journal of Nanoscience and Nanotechnology, 2009, 9, 4554-4560.	0.9	15

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145	Progress of graphene growth on copper by chemical vapor deposition: Growth behavior and controlled synthesis. <i>Science Bulletin</i> , 2012, 57, 2995-2999.	1.7	15
146	Diversity of ultrafast hot-carrier-induced dynamics and striking sub-femtosecond hot-carrier scattering times in graphene. <i>Carbon</i> , 2014, 72, 402-409.	5.4	14
147	Chemically-doped graphene with improved surface plasmon characteristics: an optical near-field study. <i>Nanoscale</i> , 2016, 8, 16621-16630.	2.8	14
148	Applications of carbon nanotubes and graphene produced by chemical vapor deposition. <i>MRS Bulletin</i> , 2017, 42, 825-833.	1.7	14
149	Six-membered-ring inorganic materials: definition and prospects. <i>National Science Review</i> , 2021, 8, nwaa248.	4.6	14
150	Electrochemical Deposition of a Single-Crystalline Nanorod Polycyclic Aromatic Hydrocarbon Film with Efficient Charge and Exciton Transport. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	14
151	Bottom-Up Synthesis of 2D Transition Metal Carbides and Nitrides. , 2019, , 89-109.		13
152	Defective graphene as a high-efficiency Raman enhancement substrate. <i>Journal of Materials Science and Technology</i> , 2019, 35, 1996-2002.	5.6	13
153	Graphene-Based Transparent Conducting Electrodes for High Efficiency Flexible Organic Photovoltaics: Elucidating the Source of the Power Losses. <i>Solar Rrl</i> , 2019, 3, 1900042.	3.1	13
154	Structural evolution of carbon microcoils induced by a direct current. <i>Carbon</i> , 2009, 47, 670-674.	5.4	12
155	High-performance flexible resistive random access memory devices based on graphene oxidized with a perpendicular oxidation gradient. <i>Nanoscale</i> , 2021, 13, 2448-2455.	2.8	12
156	Production of carbon dots during the liquid phase exfoliation of MoS ₂ quantum dots. <i>Carbon</i> , 2019, 155, 243-249.	5.4	11
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