

Jin Zhang

List of Publications by Year in descending order

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499
papers

31,366
citations

3515

90
h-index

6282

158
g-index

506
all docs

506
docs citations

506
times ranked

29718
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental realization of two-dimensional boron sheets. <i>Nature Chemistry</i> , 2016, 8, 563-568.	6.6	1,398
2	Evidence of Silicene in Honeycomb Structures of Silicon on Ag(111). <i>Nano Letters</i> , 2012, 12, 3507-3511.	4.5	1,190
3	Exploring atomic defects in molybdenum disulphide monolayers. <i>Nature Communications</i> , 2015, 6, 6293.	5.8	1,124
4	Can Graphene be used as a Substrate for Raman Enhancement?. <i>Nano Letters</i> , 2010, 10, 553-561.	4.5	914
5	Evidence for Dirac Fermions in a Honeycomb Lattice Based on Silicon. <i>Physical Review Letters</i> , 2012, 109, 056804.	2.9	634
6	Graphdiyne: synthesis, properties, and applications. <i>Chemical Society Reviews</i> , 2019, 48, 908-936.	18.7	584
7	Synthesis of Graphdiyne Nanowalls Using Acetylenic Coupling Reaction. <i>Journal of the American Chemical Society</i> , 2015, 137, 7596-7599.	6.6	484
8	Raman Enhancement Effect on Two-Dimensional Layered Materials: Graphene, h-BN and MoS ₂ . <i>Nano Letters</i> , 2014, 14, 3033-3040.	4.5	464
9	Graphene as a Substrate To Suppress Fluorescence in Resonance Raman Spectroscopy. <i>Journal of the American Chemical Society</i> , 2009, 131, 9890-9891.	6.6	460
10	Graphene: A Platform for Surface-Enhanced Raman Spectroscopy. <i>Small</i> , 2013, 9, 1206-1224.	5.2	453
11	Robust Superhydrophobic Foam: A Graphdiyne-Based Hierarchical Architecture for Oil/Water Separation. <i>Advanced Materials</i> , 2016, 28, 168-173.	11.1	449
12	Water adsorption on metal surfaces: A general picture from density functional theory studies. <i>Physical Review B</i> , 2004, 69, .	1.1	448
13	Carbon Nanotubes and Related Nanomaterials: Critical Advances and Challenges for Synthesis toward Mainstream Commercial Applications. <i>ACS Nano</i> , 2018, 12, 11756-11784.	7.3	388
14	Dirac Fermions in Borophene. <i>Physical Review Letters</i> , 2017, 118, 096401.	2.9	353
15	Graphdiyne: A Metal-Free Material as Hole Transfer Layer To Fabricate Quantum Dot-Sensitized Photocathodes for Hydrogen Production. <i>Journal of the American Chemical Society</i> , 2016, 138, 3954-3957.	6.6	335
16	Doping-Free Fabrication of Carbon Nanotube Based Ballistic CMOS Devices and Circuits. <i>Nano Letters</i> , 2007, 7, 3603-3607.	4.5	319
17	Arrays of horizontal carbon nanotubes of controlled chirality grown using designed catalysts. <i>Nature</i> , 2017, 543, 234-238.	13.7	317
18	Identifying the Crystalline Orientation of Black Phosphorus Using Angle-Resolved Polarized Raman Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 2366-2369.	7.2	284

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19	Creation of Nanostructures with Poly(methyl methacrylate)-Mediated Nanotransfer Printing. Journal of the American Chemical Society, 2008, 130, 12612-12613.	6.6	283
20	Optical Anisotropy of Black Phosphorus in the Visible Regime. Journal of the American Chemical Society, 2016, 138, 300-305.	6.6	273
21	Carbon science in 2016: Status, challenges and perspectives. Carbon, 2016, 98, 708-732.	5.4	261
22	Nanoscale Chiral Rod-like Molecular Triads Assembled from Achiral Polyoxometalates. Journal of the American Chemical Society, 2010, 132, 14-15.	6.6	240
23	Vibrational Recognition of Hydrogen-Bonded Water Networks on a Metal Surface. Physical Review Letters, 2002, 89, 176104.	2.9	229
24	Growth of MoS ₂ (1 <i>x</i>)Se ₂ (<i>x</i>) (<i>x</i> = 0.41~1.00) Monolayer Alloys with Controlled Morphology by Physical Vapor Deposition. ACS Nano, 2015, 9, 7450-7455.	7.3	217
25	Large-Scale and Flexible Optical Synapses for Neuromorphic Computing and Integrated Visible Information Sensing Memory Processing. ACS Nano, 2021, 15, 1497-1508.	7.3	210
26	Two-Dimensional Molybdenum Tungsten Diselenide Alloys: Photoluminescence, Raman Scattering, and Electrical Transport. ACS Nano, 2014, 8, 7130-7137.	7.3	208
27	First- <i>L</i> ayer Effect in Graphene-Enhanced Raman Scattering. Small, 2010, 6, 2020-2025.	5.2	207
28	Synthesis of Hierarchical Graphdiyne-Based Architecture for Efficient Solar Steam Generation. Chemistry of Materials, 2017, 29, 5777-5781.	3.2	206
29	Spontaneous Symmetry Breaking and Dynamic Phase Transition in Monolayer Silicene. Physical Review Letters, 2013, 110, 085504.	2.9	205
30	Natural Dyes Adsorbed on TiO ₂ Nanowire for Photovoltaic Applications: Enhanced Light Absorption and Ultrafast Electron Injection. Nano Letters, 2008, 8, 3266-3272.	4.5	198
31	Ultrathin graphdiyne film on graphene through solution-phase van der Waals epitaxy. Science Advances, 2018, 4, eaat6378.	4.7	198
32	Effect of Graphene Fermi Level on the Raman Scattering Intensity of Molecules on Graphene. ACS Nano, 2011, 5, 5338-5344.	7.3	193
33	Real-time, local basis-set implementation of time-dependent density functional theory for excited state dynamics simulations. Journal of Chemical Physics, 2008, 129, 054110.	1.2	191
34	“Cloning” of Single-Walled Carbon Nanotubes via Open-End Growth Mechanism. Nano Letters, 2009, 9, 1673-1677.	4.5	191
35	Direct Synthesis of Graphdiyne Nanowalls on Arbitrary Substrates and Its Application for Photoelectrochemical Water Splitting Cell. Advanced Materials, 2017, 29, 1605308.	11.1	189
36	Controllable synthesis of brookite/anatase/rutile TiO ₂ nanocomposites and single-crystalline rutile nanorods array. Journal of Materials Chemistry, 2012, 22, 7937.	6.7	188

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37	Controlled Synthesis of ZrS ₂ Monolayer and Few Layers on Hexagonal Boron Nitride. Journal of the American Chemical Society, 2015, 137, 7051-7054.	6.6	178
38	Molecular Selectivity of Graphene-Enhanced Raman Scattering. Nano Letters, 2015, 15, 2892-2901.	4.5	177
39	Wrinkle-Free Single-Crystal Graphene Wafer Grown on Strain-Engineered Substrates. ACS Nano, 2017, 11, 12337-12345.	7.3	172
40	First Principles Design of Dye Molecules with Ullazine Donor for Dye Sensitized Solar Cells. Journal of Physical Chemistry C, 2013, 117, 3772-3778.	1.5	169
41	Tellurium-Assisted Epitaxial Growth of Large-Area, Highly Crystalline ReS ₂ Atomic Layers on Mica Substrate. Advanced Materials, 2016, 28, 5019-5024.	11.1	169
42	Low-temperature growth and properties of ZnO nanowires. Applied Physics Letters, 2004, 84, 4941-4943.	1.5	163
43	DNA Nucleoside Interaction and Identification with Carbon Nanotubes. Nano Letters, 2007, 7, 45-50.	4.5	156
44	Direct evidence of metallic bands in a monolayer boron sheet. Physical Review B, 2016, 94, .	1.1	152
45	Graphdiyne: A Promising Catalyst Support To Stabilize Cobalt Nanoparticles for Oxygen Evolution. ACS Catalysis, 2017, 7, 5209-5213.	5.5	150
46	Direct Growth of Semiconducting Single-Walled Carbon Nanotube Array. Journal of the American Chemical Society, 2009, 131, 14642-14643.	6.6	143
47	Synthesis and Applications of Graphdiyne-Based Metal-Free Catalysts. Advanced Materials, 2019, 31, e1803762.	11.1	143
48	Synthesis and electrical properties of carbon nanotube polyaniline composites. Applied Physics Letters, 2004, 85, 1796-1798.	1.5	142
49	Lighting Up the Raman Signal of Molecules in the Vicinity of Graphene Related Materials. Accounts of Chemical Research, 2015, 48, 1862-1870.	7.6	141
50	Electron and Hole Dynamics in Dye-Sensitized Solar Cells: Influencing Factors and Systematic Trends. Nano Letters, 2010, 10, 1238-1247.	4.5	137
51	Diatomite-Templated Synthesis of Freestanding 3D Graphdiyne for Energy Storage and Catalysis Application. Advanced Materials, 2018, 30, e1800548.	11.1	134
52	Emergence of electron coherence and two-color all-optical switching in MoS ₂ based on spatial self-phase modulation. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 11800-11805.	3.3	133
53	Robust Stacking-Independent Ultrafast Charge Transfer in MoS ₂ /WS ₂ Bilayers. ACS Nano, 2017, 11, 12020-12026.	7.3	130
54	Monitoring Local Strain Vector in Atomic-Layered MoSe ₂ by Second-Harmonic Generation. Nano Letters, 2017, 17, 7539-7543.	4.5	128

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55	Ordered and Reversible Hydrogenation of Silicene. <i>Physical Review Letters</i> , 2015, 114, 126101.	2.9	127
56	CMP Aerogels: Ultrahigh-Surface-Area Carbon-Based Monolithic Materials with Superb Sorption Performance. <i>Advanced Materials</i> , 2014, 26, 8053-8058.	11.1	125
57	2D graphdiyne materials: challenges and opportunities in energy field. <i>Science China Chemistry</i> , 2018, 61, 765-786.	4.2	123
58	Enhanced Raman Scattering on In-Plane Anisotropic Layered Materials. <i>Journal of the American Chemical Society</i> , 2015, 137, 15511-15517.	6.6	122
59	Chemical Alignment of Oxidatively Shortened Single-Walled Carbon Nanotubes on Silver Surface. <i>Journal of Physical Chemistry B</i> , 2001, 105, 5075-5078.	1.2	120
60	Growth of high-density horizontally aligned SWNT arrays using Trojan catalysts. <i>Nature Communications</i> , 2015, 6, 6099.	5.8	120
61	Graphene-Based Enhanced Raman Scattering toward Analytical Applications. <i>Chemistry of Materials</i> , 2016, 28, 6426-6435.	3.2	120
62	Correlations between Immobilizing Ions and Suppressing Hysteresis in Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2016, 1, 266-272.	8.8	118
63	Raman Spectra and Corresponding Strain Effects in Graphyne and Graphdiyne. <i>Journal of Physical Chemistry C</i> , 2016, 120, 10605-10613.	1.5	116
64	Cap Formation Engineering: From Opened C ₆₀ to Single-Walled Carbon Nanotubes. <i>Nano Letters</i> , 2010, 10, 3343-3349.	4.5	115
65	Predicting Energy Conversion Efficiency of Dye Solar Cells from First Principles. <i>Journal of Physical Chemistry C</i> , 2014, 118, 16447-16457.	1.5	115
66	Architecture of Graphdiyne-Containing Thin Film Using Modified Glaser-Hay Coupling Reaction for Enhanced Photocatalytic Property of TiO ₂ . <i>Advanced Materials</i> , 2017, 29, 1700421.	11.1	115
67	Graphdiyne for crucial gas involved catalytic reactions in energy conversion applications. <i>Energy and Environmental Science</i> , 2020, 13, 1326-1346.	15.6	115
68	Controlled growth of large-area anisotropic ReS ₂ atomic layer and its photodetector application. <i>Nanoscale</i> , 2016, 8, 18956-18962.	2.8	114
69	Chemical Vapor Deposition Growth of Linked Carbon Monolayers with Acetylenic Scaffoldings on Silver Foil. <i>Advanced Materials</i> , 2017, 29, 1604665.	11.1	114
70	Few-Layer Graphene-Encapsulated Metal Nanoparticles for Surface-Enhanced Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2014, 118, 8993-8998.	1.5	113
71	Atomic Pd on Graphdiyne/Graphene Heterostructure as Efficient Catalyst for Aromatic Nitroreduction. <i>Advanced Functional Materials</i> , 2019, 29, 1905423.	7.8	112
72	Microscopic Dimensions Engineering: Stepwise Manipulation of the Surface Wettability on 3D Substrates for Oil/Water Separation. <i>Advanced Materials</i> , 2016, 28, 936-942.	11.1	109

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73	Solution-Processable High-Purity Semiconducting SWCNTs for Large-Area Fabrication of High-Performance Thin-Film Transistors. <i>Small</i> , 2016, 12, 4993-4999.	5.2	107
74	Quantum Mode Selectivity of Plasmon-Induced Water Splitting on Gold Nanoparticles. <i>ACS Nano</i> , 2016, 10, 5452-5458.	7.3	106
75	pH-Dependent Synthesis of Novel Structure-Controllable Polymer-Carbon NanoDots with High Acidophilic Luminescence and Super Carbon Dots Assembly for White Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 4062-4068.	4.0	106
76	Probing the Effect of Molecular Orientation on the Intensity of Chemical Enhancement Using Graphene-Enhanced Raman Spectroscopy. <i>Small</i> , 2012, 8, 1365-1372.	5.2	105
77	Raman Spectroscopy of Graphene. <i>Acta Chimica Sinica</i> , 2014, 72, 301.	0.5	105
78	Synthesis of Ultrathin Graphdiyne Film Using a Surface Template. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 2632-2637.	4.0	103
79	Theoretical Models of Eumelanin Protomolecules and their Optical Properties. <i>Biophysical Journal</i> , 2008, 94, 2095-2105.	0.2	100
80	Pyrolysis-induced synthesis of iron and nitrogen-containing carbon nanolayers modified graphdiyne nanostructure as a promising core-shell electrocatalyst for oxygen reduction reaction. <i>Carbon</i> , 2017, 119, 201-210.	5.4	99
81	Identifying the Crystalline Orientation of Black Phosphorus Using Angle-Resolved Polarized Raman Spectroscopy. <i>Angewandte Chemie</i> , 2015, 127, 2396-2399.	1.6	97
82	From Silicene to Half-Silicane by Hydrogenation. <i>ACS Nano</i> , 2015, 9, 11192-11199.	7.3	97
83	Nitrogen-Doped Carbon Nanotube Aerogels for High-Performance ORR Catalysts. <i>Small</i> , 2015, 11, 3903-3908.	5.2	96
84	Side-group chemical gating via reversible optical and electric control in a single molecule transistor. <i>Nature Communications</i> , 2019, 10, 1450.	5.8	96
85	Sorting out Semiconducting Single-Walled Carbon Nanotube Arrays by Preferential Destruction of Metallic Tubes Using Xenon-Lamp Irradiation. <i>Journal of Physical Chemistry C</i> , 2008, 112, 3849-3856.	1.5	95
86	Interface-Engineered Plasmonics in Metal/Semiconductor Heterostructures. <i>Advanced Energy Materials</i> , 2016, 6, 1600431.	10.2	95
87	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
88	Electric-Field-Assisted Growth of Vertical Graphene Arrays and the Application in Thermal Interface Materials. <i>Advanced Functional Materials</i> , 2020, 30, 2003302.	7.8	95
89	A universal etching-free transfer of MoS ₂ films for applications in photodetectors. <i>Nano Research</i> , 2015, 8, 3662-3672.	5.8	94
90	A new phase diagram of water under negative pressure: The rise of the lowest-density clathrate s-III. <i>Science Advances</i> , 2016, 2, e1501010.	4.7	92

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91	Design of a Photoactive Hybrid Bilayer Dielectric for Flexible Nonvolatile Organic Memory Transistors. <i>ACS Nano</i> , 2016, 10, 436-445.	7.3	91
92	Discovery of 2D Anisotropic Dirac Cones. <i>Advanced Materials</i> , 2018, 30, 1704025.	11.1	91
93	Surface-Enhanced Raman Scattering (SERS) from Azobenzene Self-Assembled "Sandwiches". <i>Langmuir</i> , 1999, 15, 16-19.	1.6	90
94	Suppressed superconductivity in substrate-supported I^2 borophene by tensile strain and electron doping. <i>2D Materials</i> , 2017, 4, 025032.	2.0	90
95	Observation of Dirac Cone Warping and Chirality Effects in Silicene. <i>ACS Nano</i> , 2013, 7, 9049-9054.	7.3	88
96	The chemistry of organoimido derivatives of polyoxometalates. <i>Dalton Transactions</i> , 2012, 41, 3599.	1.6	87
97	Characterizing hydrophobicity of amino acid side chains in a protein environment via measuring contact angle of a water nanodroplet on planar peptide network. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 12946-12951.	3.3	87
98	Interlayer State Coupling Dependent Ultrafast Charge Transfer in MoS_2/WS_2 Bilayers. <i>Advanced Science</i> , 2017, 4, 1700086.	5.6	87
99	Graphdiyne/Graphene Heterostructure: A Universal 2D Scaffold Anchoring Monodispersed Transition-Metal Phthalocyanines for Selective and Durable CO_2 Electroreduction. <i>Journal of the American Chemical Society</i> , 2021, 143, 8679-8688.	6.6	87
100	Macroscopic Carbon Nanotube-based 3D Monoliths. <i>Small</i> , 2015, 11, 3263-3289.	5.2	83
101	Identifying sp^2 carbon materials by Raman and infrared spectroscopies. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 11303-11309.	1.3	81
102	Photoinduced Nonequilibrium Topological States in Strained Black Phosphorus. <i>Physical Review Letters</i> , 2018, 120, 237403.	2.9	80
103	Core-shell Ag@nitrogen-doped carbon quantum dots modified BiVO_4 nanosheets with enhanced photocatalytic performance under Vis-NIR light: Synergism of molecular oxygen activation and surface plasmon resonance. <i>Chemical Engineering Journal</i> , 2021, 410, 128336.	6.6	79
104	Metastable phases of 2D boron sheets on $\text{Ag}(1\%1)$. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 095002.	0.7	78
105	SnO_2 @PANI Core-Shell Nanorod Arrays on 3D Graphite Foam: A High-Performance Integrated Electrode for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 9620-9629.	4.0	78
106	Water printing of ferroelectric polarization. <i>Nature Communications</i> , 2018, 9, 3809.	5.8	75
107	Fast Growth of Strain-Free AlN on Graphene-Buffered Sapphire. <i>Journal of the American Chemical Society</i> , 2018, 140, 11935-11941.	6.6	75
108	Anomalous Polarized Raman Scattering and Large Circular Intensity Differential in Layered Triclinic ReS_2 . <i>ACS Nano</i> , 2017, 11, 10366-10372.	7.3	74

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109	Horizontal Single-Walled Carbon Nanotube Arrays: Controlled Synthesis, Characterizations, and Applications. <i>Chemical Reviews</i> , 2020, 120, 12592-12684.	23.0	74
110	The Origin of Oxygen Vacancies Controlling $\text{La}_{2/3}\text{Sr}_{1/3}\text{MnO}_3$ Electronic and Magnetic Properties. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500753.	1.9	73
111	Enhanced tunable second harmonic generation from twistable interfaces and vertical superlattices in boron nitride homostructures. <i>Science Advances</i> , 2021, 7, .	4.7	73
112	State of the Art of Single-Walled Carbon Nanotube Synthesis on Surfaces. <i>Advanced Materials</i> , 2014, 26, 5898-5922.	11.1	71
113	Diameter-Specific Growth of Semiconducting SWNT Arrays Using Uniform Mo_2C Solid Catalyst. <i>Journal of the American Chemical Society</i> , 2015, 137, 8904-8907.	6.6	71
114	Spotting the differences in two-dimensional materials – the Raman scattering perspective. <i>Chemical Society Reviews</i> , 2018, 47, 3217-3240.	18.7	71
115	Influence of water on the electronic structure of metal-supported graphene: Insights from van der Waals density functional theory. <i>Physical Review B</i> , 2012, 85, .	1.1	70
116	Stacking-dependent electronic structure of bilayer silicene. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	70
117	Atomic Disorders Induced by Silver and Magnesium Ion Migrations Favor High Thermoelectric Performance in MgAgSb -Based Materials. <i>Advanced Functional Materials</i> , 2015, 25, 6478-6488.	7.8	70
118	Chemical Vapor Deposition Growth of Single-Walled Carbon Nanotubes with Controlled Structures for Nanodevice Applications. <i>Accounts of Chemical Research</i> , 2014, 47, 2273-2281.	7.6	69
119	Density controlled oil uptake and beyond: from carbon nanotubes to graphene nanoribbon aerogels. <i>Journal of Materials Chemistry A</i> , 2015, 3, 20547-20553.	5.2	69
120	Epitaxial growth of large-area and highly crystalline anisotropic ReSe_2 atomic layer. <i>Nano Research</i> , 2017, 10, 2732-2742.	5.8	69
121	Template Synthesis of an Ultrathin I^2 -Graphdiyne-Like Film Using the Eglinton Coupling Reaction. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 2734-2739.	4.0	69
122	Structure-Property Relations in All-Organic Dye-Sensitized Solar Cells. <i>Advanced Functional Materials</i> , 2013, 23, 424-429.	7.8	68
123	Microscopic Insight into Surface Wetting: Relations between Interfacial Water Structure and the Underlying Lattice Constant. <i>Physical Review Letters</i> , 2013, 110, 126101.	2.9	67
124	Z-scheme $\text{Ag}_3\text{PO}_4/\text{graphdiyne}/\text{g-C}_3\text{N}_4$ composites: Enhanced photocatalytic O_2 generation benefiting from dual roles of graphdiyne. <i>Carbon</i> , 2018, 132, 598-605.	5.4	67
125	Exploring Approaches for the Synthesis of Few-Layered Graphdiyne. <i>Advanced Materials</i> , 2019, 31, e1803758.	11.1	67
126	Integrated Plasmonics: Broadband Dirac Plasmons in Borophene. <i>Physical Review Letters</i> , 2020, 125, 116802.	2.9	67

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127	Non-Volatile Electrolyte-Gated Transistors Based on Graphdiyne/MoS ₂ with Robust Stability for Low-Power Neuromorphic Computing and Logic-In-Memory. <i>Advanced Functional Materials</i> , 2021, 31, 2100069.	7.8	66
128	Modulating the Charge-Transfer Enhancement in GERS using an Electrical Field under Vacuum and an n-Doping Atmosphere. <i>Small</i> , 2011, 7, 2945-2952.	5.2	65
129	Separation of Metallic and Semiconducting Single-Walled Carbon Nanotube Arrays by "Scotch Tape". <i>Angewandte Chemie - International Edition</i> , 2011, 50, 6819-6823.	7.2	64
130	Photoexcitation in Solids: First-Principles Quantum Simulations by Real-Time TDDFT. <i>Advanced Theory and Simulations</i> , 2018, 1, 1800055.	1.3	64
131	Boron doped graphdiyne: A metal-free peroxidase mimetic nanozyme for antibacterial application. <i>Nano Research</i> , 2022, 15, 1446-1454.	5.8	64
132	Temperature-Mediated Engineering of Graphdiyne Framework Enabling High-Performance Potassium Storage. <i>Advanced Functional Materials</i> , 2020, 30, 2003039.	7.8	62
133	Field and temperature dependence of intrinsic diamagnetism in graphene: Theory and experiment. <i>Physical Review B</i> , 2015, 91, .	1.1	61
134	Growing highly pure semiconducting carbon nanotubes by electro-twisting the helicity. <i>Nature Catalysis</i> , 2018, 1, 326-331.	16.1	61
135	Determination of DNA-Base Orientation on Carbon Nanotubes through Directional Optical Absorbance. <i>Nano Letters</i> , 2007, 7, 2312-2316.	4.5	60
136	Nonlinear Rashba spin splitting in transition metal dichalcogenide monolayers. <i>Nanoscale</i> , 2016, 8, 17854-17860.	2.8	60
137	Growth of Close-Packed Semiconducting Single-Walled Carbon Nanotube Arrays Using Oxygen-Deficient TiO ₂ Nanoparticles as Catalysts. <i>Nano Letters</i> , 2015, 15, 403-409.	4.5	59
138	Chemical vapor deposition synthesis of near-zigzag single-walled carbon nanotubes with stable tube-catalyst interface. <i>Science Advances</i> , 2016, 2, e1501729.	4.7	59
139	Intelligent identification of two-dimensional nanostructures by machine-learning optical microscopy. <i>Nano Research</i> , 2018, 11, 6316-6324.	5.8	59
140	Designing Catalysts for Chirality-Selective Synthesis of Single-Walled Carbon Nanotubes: Past Success and Future Opportunity. <i>Advanced Materials</i> , 2019, 31, e1800805.	11.1	59
141	Birefringence-Directed Raman Selection Rules in 2D Black Phosphorus Crystals. <i>Small</i> , 2016, 12, 2627-2633.	5.2	57
142	Electrostatic Functionalization and Passivation of Water-Exfoliated Few-Layer Black Phosphorus by Poly Dimethyldiallyl Ammonium Chloride and Its Ultrafast Laser Application. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 9679-9687.	4.0	57
143	Graphdiyne Filter for Decontaminating Lead-Ion Polluted Water. <i>Advanced Electronic Materials</i> , 2017, 3, 1700122.	2.6	56
144	Graphdiyne/Graphene/Graphdiyne Sandwiched Carbonaceous Anode for Potassium-Ion Batteries. <i>ACS Nano</i> , 2022, 16, 3163-3172.	7.3	56

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145	Bridging the Gap between Reality and Ideality of Graphdiyne: The Advances of Synthetic Methodology. <i>CheM</i> , 2020, 6, 1933-1951.	5.8	54
146	Catalyst-Free Synthesis of Few-Layer Graphdiyne Using a Microwave-Induced Temperature Gradient at a Solid/Liquid Interface. <i>Advanced Functional Materials</i> , 2020, 30, 2001396.	7.8	54
147	Screening Magnetic Two-Dimensional Atomic Crystals with Nontrivial Electronic Topology. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 6709-6715.	2.1	53
148	Ultrafast charge ordering by self-amplified exciton-phonon dynamics in TiSe_2 . <i>Nature Communications</i> , 2020, 11, 43.	5.8	53
149	Charge-Transfer Plasmon Polaritons at Graphene/ $\pm\text{RuCl}_3$ Interfaces. <i>Nano Letters</i> , 2020, 20, 8438-8445.	4.5	53
150	First-principles studies of cation-doped spinel LiMn_2O_4 for lithium ion batteries. <i>Physical Review B</i> , 2003, 67, .	1.1	51
151	Novel Excitonic Solar Cells in Phosphorene/ TiO_2 Heterostructures with Extraordinary Charge Separation Efficiency. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1880-1887.	2.1	51
152	Gas exfoliation of graphitic carbon nitride to improve the photocatalytic hydrogen evolution of metal-free 2D/2D g-C ₃ N ₄ /graphdiyne heterojunction. <i>Journal of Alloys and Compounds</i> , 2020, 833, 155054.	2.8	51
153	Superconductor-Insulator Transitions in Exfoliated $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ Flakes. <i>Nano Letters</i> , 2018, 18, 5660-5665.	4.5	50
154	Transparent proton transport through a two-dimensional nanomesh material. <i>Nature Communications</i> , 2019, 10, 3971.	5.8	50
155	Gate-Tunable Reversible Rashba-Edelstein Effect in a Few-Layer Graphene/2H-TaS ₂ Heterostructure at Room Temperature. <i>ACS Nano</i> , 2020, 14, 5251-5259.	7.3	50
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488	Growth of Single-Walled Carbon Nanotubes on Surface with Controlled Structures. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1204, 1.	0.1	0
489	Controlled synthesis of one-dimensional titania nanostructure films on transparent conductive glasses from a heterogeneous solvothermal method. , 2010, , .		0
490	Organic Field-Effect Transistors: Solution-Processable, Low-Voltage, and High-Performance Monolayer Field-Effect Transistors with Aqueous Stability and High Sensitivity (<i>Adv. Mater.</i> 12/2015). <i>Advanced Materials</i> , 2015, 27, 2124-2124.	11.1	0
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492	High throughput methods for evaluating the homogeneity of nanomaterials for nanoelectronics. , 2017, , .		0
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494	Growth of Single-Walled Carbon Nanotubes with Controlled Structure: Floating Carbide Solid Catalysts. <i>Angewandte Chemie</i> , 2020, 132, 10976-10979.	1.6	0
495	Local Kondo scattering in 4d-electron RuO ₃ nanoclusters on atomically-resolved ultrathin SrRuO ₃ films. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 22526-22531.	1.3	0
496	A gift to the Queen of Carbon: A special collection in honor and memory of Mildred Dresselhaus. <i>Science Advances</i> , 2021, 7, .	4.7	0
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498	Spin-Glass State above Room Temperature in a Layered Nickelate La _n ⁺¹ Ni _n O ₃ . <i>Advanced Electronic Materials</i> , 2022, 8, .		0
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