Zheng Liu

List of Publications by Year
in descending order

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495	70,831	464 130	693 253
papers	citations	h-index	g-index

506	506	506	59167
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ordered nanoporous arrays of carbon supporting high dispersions of platinum nanoparticles. Nature, 2001, 412, 169-172.	13.7	2,439
2	Synthesis of New, Nanoporous Carbon with Hexagonally Ordered Mesostructure. Journal of the American Chemical Society, 2000, 122, 10712-10713.	6.6	2,331
3	Graphene Quantum Dots Derived from Carbon Fibers. Nano Letters, 2012, 12, 844-849.	4.5	2,041
4	Vertical and in-plane heterostructures from WS2/MoS2 monolayers. Nature Materials, 2014, 13, 1135-1142.	13.3	1,918
5	Sulfur-Doped Graphene as an Efficient Metal-free Cathode Catalyst for Oxygen Reduction. ACS Nano, 2012, 6, 205-211.	7.3	1,783
6	Intrinsic Structural Defects in Monolayer Molybdenum Disulfide. Nano Letters, 2013, 13, 2615-2622.	4.5	1,766
7	Large-Pore Apertures in a Series of Metal-Organic Frameworks. Science, 2012, 336, 1018-1023.	6.0	1,729
8	Vapour phase growth and grain boundary structure of molybdenum disulphide atomic layers. Nature Materials, 2013, 12, 754-759.	13.3	1,590
9	Largeâ€Area Vaporâ€Phase Growth and Characterization of MoS₂ Atomic Layers on a SiO₂ Substrate. Small, 2012, 8, 966-971.	5.2	1,556
10	Direct laser writing of micro-supercapacitors on hydrated graphite oxide films. Nature Nanotechnology, 2011, 6, 496-500.	15.6	1,322
11	A library of atomically thin metal chalcogenides. Nature, 2018, 556, 355-359.	13.7	1,225
12	In-plane heterostructures of graphene and hexagonal boron nitride with controlled domain sizes. Nature Nanotechnology, 2013, 8, 119-124.	15.6	796
13	High phase-purity 1Tâ€²-MoS2- and 1Tâ€²-MoSe2-layered crystals. Nature Chemistry, 2018, 10, 638-643.	6.6	757
14	One-Pot Synthesis of Protein-Embedded Metalâ€“Organic Frameworks with Enhanced Biological Activities. Nano Letters, 2014, 14, 5761-5765.	4.5	754
15	Synthesis and characterization of chiral mesoporous silica. Nature, 2004, 429, 281-284.	13.7	747
16	Chemical Vapor Deposition Growth of Crystalline Monolayer MoSe₂. ACS Nano, 2014, 8, 5125-5131.	7.3	694
17	Flexible Sensing Electronics for Wearable/Attachable Health Monitoring. Small, 2017, 13, 1602790.	5.2	690
18	Room-temperature ferroelectricity in CuInP2S6 ultrathin flakes. Nature Communications, 2016, 7, 12357.	5.8	637

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19	Graphene Oxide: Structural Analysis and Application as a Highly Transparent Support for Electron Microscopy. ACS Nano, 2009, 3, 2547-2556.	7.3	629
20	Gated Tunability and Hybridization of Localized Plasmons in Nanostructured Graphene. ACS Nano, 2013, 7, 2388-2395.	7.3	622
21	New Porous Crystals of Extended Metal-Catecholates. Chemistry of Materials, 2012, 24, 3511-3513.	3.2	618
22	Graphene-Antenna Sandwich Photodetector. Nano Letters, 2012, 12, 3808-3813.	4.5	615
23	Fracture toughness of graphene. Nature Communications, 2014, 5, 3782.	5.8	567
24	Active Tunable Absorption Enhancement with Graphene Nanodisk Arrays. Nano Letters, 2014, 14, 299-304.	4.5	565
25	Tunable Band Gap Photoluminescence from Atomically Thin Transition-Metal Dichalcogenide Alloys. ACS Nano, 2013, 7, 4610-4616.	7.3	543
26	Open and Closed Edges of Graphene Layers. Physical Review Letters, 2009, 102, 015501.	2.9	539
27	Ultrathin high-temperature oxidation-resistant coatings of hexagonal boron nitride. Nature Communications, 2013, 4, 2541.	5.8	536
28	Bandgap engineering of two-dimensional semiconductor materials. Npj 2D Materials and Applications, 2020, 4, .	3.9	528
29	Plasmonic Hot Electron Induced Structural Phase Transition in a MoS₂ Monolayer. Advanced Materials, 2014, 26, 6467-6471.	11.1	516
30	PdSe₂: Pentagonal Two-Dimensional Layers with High Air Stability for Electronics. Journal of the American Chemical Society, 2017, 139, 14090-14097.	6.6	509
31	Highâ€Electronâ€Mobility and Airâ€Stable 2D Layered PtSe₂ FETs. Advanced Materials, 2017, 29, 1604230.	11.1	502
32	Two-Step Growth of Two-Dimensional WSe₂/MoSe₂ Heterostructures. Nano Letters, 2015, 15, 6135-6141.	4.5	479
33	Direct Growth of Graphene/Hexagonal Boron Nitride Stacked Layers. Nano Letters, 2011, 11, 2032-2037.	4.5	466
34	Band Gap Engineering and Layer-by-Layer Mapping of Selenium-Doped Molybdenum Disulfide. Nano Letters, 2014, 14, 442-449.	4.5	463
35	Direct Laserâ€Patterned Microâ€Supercapacitors from Paintable MoS₂ Films. Small, 2013, 9, 2905-2910.	5.2	455
36	Strain and structure heterogeneity in MoS2 atomic layers grown by chemical vapour deposition. Nature Communications, 2014, 5, 5246.	5.8	453

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37	Superstructured Assembly of Nanocarbons: Fullerenes, Nanotubes, and Graphene. Chemical Reviews, 2015, 115, 7046-7117.	23.0	448
38	Weaving of organic threads into a crystalline covalent organic framework. Science, 2016, 351, 365-369.	6.0	427
39	Ultrahigh Thermal Conductive yet Superflexible Graphene Films. Advanced Materials, 2017, 29, 1700589.	11.1	416
40	Extraordinarily Strong Interlayer Interaction in 2D Layered PtS₂. Advanced Materials, 2016, 28, 2399-2407.	11.1	415
41	Ultrathin 2D Photocatalysts: Electronicâ€Structure Tailoring, Hybridization, and Applications. Advanced Materials, 2018, 30, 1704548.	11.1	409
42	Synthesis and Photoresponse of Large GaSe Atomic Layers. Nano Letters, 2013, 13, 2777-2781.	4.5	381
43	An iron-based green approach to 1-h production of single-layer graphene oxide. Nature Communications, 2015, 6, 5716.	5.8	377
44	Flexible Capacitive Tactile Sensor Based on Micropatterned Dielectric Layer. Small, 2016, 12, 5042-5048.	5.2	377
45	Large-Area Synthesis of Monolayer and Few-Layer MoSe₂ Films on SiO₂ Substrates. Nano Letters, 2014, 14, 2419-2425.	4.5	376
46	Highly Sensitive Detection of Polarized Light Using Anisotropic 2D ReS₂. Advanced Functional Materials, 2016, 26, 1169-1177.	7.8	376
47	AtomicallyÂthin noble metal dichalcogenide: a broadband mid-infrared semiconductor. Nature Communications, 2018, 9, 1545.	5.8	367
48	Plasmon-Induced Doping of Graphene. ACS Nano, 2012, 6, 10222-10228.	7.3	356
49	Building 3D Structures of Vanadium Pentoxide Nanosheets and Application as Electrodes in Supercapacitors. Nano Letters, 2013, 13, 5408-5413.	4.5	343
50	Black Phosphorus Nanosheets: Synthesis, Characterization and Applications. Small, 2016, 12, 3480-3502.	5.2	337
51	Defectâ€Rich Bi₁₂O₁₇Cl₂ Nanotubes Selfâ€Accelerating Charge Separation for Boosting Photocatalytic CO₂ Reduction. Angewandte Chemie - International Edition, 2018, 57, 14847-14851.	7.2	329
52	Isolated single atom cobalt in Bi3O4Br atomic layers to trigger efficient CO2 photoreduction. Nature Communications, 2019, 10, 2840.	5.8	327
53	Two-dimensional heterostructures: fabrication, characterization, and application. Nanoscale, 2014, 6, 12250-12272.	2.8	323
54	Defectâ€Tailoring Mediated Electronâ€“Hole Separation in Singleâ€Unitâ€Cell Bi₃O₄Br Nanosheets for Boosting Photocatalytic Hydrogen Evolution and Nitrogen Fixation. Advanced Materials, 2019, 31, e1807576.	11.1	311

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55	Very High Surface Area Microporous Carbon with a Three-Dimensional Nano-Array Structure:Â Synthesis and Its Molecular Structure. Chemistry of Materials, 2001, 13, 4413-4415.	3.2	303
56	Facile Synthesis and Characterization of Novel Mesoporous and Mesorelief Oxides with Gyroidal Structures. Journal of the American Chemical Society, 2004, 126, 865-875.	6.6	297
57	High-quality monolayer superconductor NbSe2 grown by chemical vapour deposition. Nature Communications, 2017, 8, 394.	5.8	290
58	Two-dimensional non-volatile programmable pâ€“n junctions. Nature Nanotechnology, 2017, 12, 901-906.	15.6	278
59	Template Synthesis of Asymmetrically Mesostructured Platinum Networks. Journal of the American Chemical Society, 2001, 123, 1246-1247.	6.6	277
60	Growth of Bilayer Graphene on Insulating Substrates. ACS Nano, 2011, 5, 8187-8192.	7.3	269
61	MoS₂/TiO₂ Edgeâ€On Heterostructure for Efficient Photocatalytic Hydrogen Evolution. Advanced Energy Materials, 2016, 6, 1600464.	10.2	264
62	Singleâ€Atom Iron Catalysts on Overhangâ€Eave Carbon Cages for Highâ€Performance Oxygen Reduction Reaction. Angewandte Chemie - International Edition, 2020, 59, 7384-7389.	7.2	264
63	Bottom-up Approach toward Single-Crystalline VO₂-Graphene Ribbons as Cathodes for Ultrafast Lithium Storage. Nano Letters, 2013, 13, 1596-1601.	4.5	263
64	Synergistic Gating of Electroâ€Ionoâ€Photoactive 2D Chalcogenide Neuristors: Coexistence of Hebbian and Homeostatic Synaptic Metaplasticity. Advanced Materials, 2018, 30, e1800220.	11.1	261
65	Grapheneâ€Networkâ€Backboned Architectures for Highâ€Performance Lithium Storage. Advanced Materials, 2013, 25, 3979-3984.	11.1	253
66	High Mobility 2D Palladium Diselenide Fieldâ€Effect Transistors with Tunable Ambipolar Characteristics. Advanced Materials, 2017, 29, 1602969.	11.1	251
67	Electrically switchable Berry curvature dipole in the monolayer topological insulator WTe2. Nature Physics, 2018, 14, 900-906.	6.5	249
68	Lithiation-induced amorphization of Pd3P2S8 for highly efficient hydrogen evolution. Nature Catalysis, 2018, 1, 460-468.	16.1	247
69	Atomically-thin Bi2MoO6 nanosheets with vacancy pairs for improved photocatalytic CO2 reduction. Nano Energy, 2019, 61, 54-59.	8.2	243
70	Controlled Synthesis of High-Quality Monolayered Î±-In₂Se₃ via Physical Vapor Deposition. Nano Letters, 2015, 15, 6400-6405.	4.5	239
71	Superlong Single-Crystal Metalâ€“Organic Framework Nanotubes. Journal of the American Chemical Society, 2018, 140, 15393-15401.	6.6	230
72	Ultrathin two-dimensional materials for photo- and electrocatalytic hydrogen evolution. Materials Today, 2018, 21, 749-770.	8.3	228

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73	Binary and Ternary Atomic Layers Built from Carbon, Boron, and Nitrogen. Advanced Materials, 2012, 24, 4878-4895.	11.1	219
74	Boron- and Nitrogen-Substituted Graphene Nanoribbons as Efficient Catalysts for Oxygen Reduction Reaction. Chemistry of Materials, 2015, 27, 1181-1186.	3.2	219
75	Mixed Low-Dimensional Nanomaterial: 2D Ultranarrow MoS₂ Inorganic Nanoribbons Encapsulated in Quasi-1D Carbon Nanotubes. Journal of the American Chemical Society, 2010, 132, 13840-13847.	6.6	218
76	Atomically Dispersed Co₂â€“N₆ and Feâ€“N₄ Costructures Boost Oxygen Reduction Reaction in Both Alkaline and Acidic Media. Advanced Materials, 2021, 33, e2104718.	11.1	218
77	High-Yield Exfoliation of Ultrathin Two-Dimensional Ternary Chalcogenide Nanosheets for Highly Sensitive and Selective Fluorescence DNA Sensors. Journal of the American Chemical Society, 2015, 137, 10430-10436.	6.6	214
78	TEM Studies of Platinum Nanowires Fabricated in Mesoporous Silica MCM-41. Angewandte Chemie - International Edition, 2000, 39, 3107-3110.	7.2	213
79	High thermal conductivity of suspended few-layer hexagonal boron nitride sheets. Nano Research, 2014, 7, 1232-1240.	5.8	211
80	Porous Ionic Membrane Based Flexible Humidity Sensor and its Multifunctional Applications. Advanced Science, 2017, 4, 1600404.	5.6	207
81	Visualization and quantification of transition metal atomic mixing in Mo1â^'xWxS2 single layers. Nature Communications, 2013, 4, 1351.	5.8	202
82	Three-Dimensional Metalâ€“Grapheneâ€“Nanotube Multifunctional Hybrid Materials. ACS Nano, 2013, 7, 58-64.	7.3	202
83	Electrical performance of monolayer MoS2 field-effect transistors prepared by chemical vapor deposition. Applied Physics Letters, 2013, 102, .	1.5	201
84	Complex zeolite structure solved by combining powder diffraction and electron microscopy. Nature, 2006, 444, 79-81.	13.7	200
85	Temperature-dependent phonon shifts in monolayer MoS2. Applied Physics Letters, 2013, 103, .	1.5	199
86	Direct chemical conversion of graphene to boron- and nitrogen- and carbon-containing atomic layers. Nature Communications, 2014, 5, 3193.	5.8	198
87	3R MoS₂ with Broken Inversion Symmetry: A Promising Ultrathin Nonlinear Optical Device. Advanced Materials, 2017, 29, 1701486.	11.1	197
88	A Synthetic Route for Crystals of Woven Structures, Uniform Nanocrystals, and Thin Films of Imine Covalent Organic Frameworks. Journal of the American Chemical Society, 2017, 139, 13166-13172.	6.6	193
89	Using the Plasmon Linewidth To Calculate the Time and Efficiency of Electron Transfer between Gold Nanorods and Graphene. ACS Nano, 2013, 7, 11209-11217.	7.3	192
90	Cobalt-Modulated Molybdenumâ€“Dinitrogen Interaction in MoS₂ for Catalyzing Ammonia Synthesis. Journal of the American Chemical Society, 2019, 141, 19269-19275.	6.6	189

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91	Interpenetrating interfaces for efficient perovskite solar cells with high operational stability and mechanical robustness. Nature Communications, 2021, 12, 973.	5.8	189
92	Architecting a Stable High-Energy Aqueous Al-Ion Battery. Journal of the American Chemical Society, 2020, 142, 15295-15304.	6.6	188
93	Nonlinear photoresponse of type-II Weyl semimetals. Nature Materials, 2019, 18, 476-481.	13.3	185
94	Engineering covalently bonded 2D layered materials by self-intercalation. Nature, 2020, 581, 171-177.	13.7	185
95	Ultrasensitive 2D Bi₂O₂Se Phototransistors on Silicon Substrates. Advanced Materials, 2019, 31, e1804945.	11.1	183
96	Largeâ€Area and Highâ€Quality 2D Transition Metal Telluride. Advanced Materials, 2017, 29, 1603471.	11.1	181
97	Freestanding atomically-thin two-dimensional materials beyond graphene meeting photocatalysis: Opportunities and challenges. Nano Energy, 2017, 35, 79-91.	8.2	179
98	A Single-Crystal Open-Capsule Metalâ€“Organic Framework. Journal of the American Chemical Society, 2019, 141, 7906-7916.	6.6	179
99	A Catalytic Reaction Inside a Singleâ€Walled Carbon Nanotube. Advanced Materials, 2008, 20, 1443-1449.	11.1	178
100	Tandem Nitrogen Functionalization of Porous Carbon: Toward Immobilizing Highly Active Palladium Nanoclusters for Dehydrogenation of Formic Acid. ACS Catalysis, 2017, 7, 2720-2724.	5.5	175
101	Twisting Bilayer Graphene Superlattices. ACS Nano, 2013, 7, 2587-2594.	7.3	173
102	Bismuth vacancy mediated single unit cell Bi2WO6 nanosheets for boosting photocatalytic oxygen evolution. Applied Catalysis B: Environmental, 2018, 238, 119-125.	10.8	173
103	Individual Waterâ€Filled Singleâ€Walled Carbon Nanotubes as Hydroelectric Power Converters. Advanced Materials, 2008, 20, 1772-1776.	11.1	172
104	Efficient Electrochemical Nitrate Reduction to Ammonia with Copperâ€Supported Rhodium Cluster and Singleâ€Atom Catalysts. Angewandte Chemie - International Edition, 2022, 61, .	7.2	170
105	Thickness-Dependent Morphologies of Gold on N-Layer Graphenes. Journal of the American Chemical Society, 2010, 132, 944-946.	6.6	167
106	Self-gating in semiconductor electrocatalysis. Nature Materials, 2019, 18, 1098-1104.	13.3	167
107	2D Material Based Synaptic Devices for Neuromorphic Computing. Advanced Functional Materials, 2021, 31, 2005443.	7.8	165
108	Discovery of a new type of topological Weyl fermion semimetal state in MoxW1â^'xTe2. Nature Communications, 2016, 7, 13643.	5.8	163

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109	Growth and Optical Properties of High-Quality Monolayer WS₂ on Graphite. ACS Nano, 2015, 9, 4056-4063.	7.3	162
110	Twoâ€dimensional materials: From mechanical properties to flexible mechanical sensors. InformaÄnÃ-MateriÃ¡ly, 2020, 2, 1077-1094.	8.5	158
111	Origin of giant negative piezoelectricity in a layered van der Waals ferroelectric. Science Advances, 2019, 5, eaav3780.	4.7	157
112	Engineering grain boundaries at theÂ2D limit for theÂhydrogen evolution reaction. Nature Communications, 2020, 11, 57.	5.8	153
113	Visualizing and identifying single atoms using electron energy-loss spectroscopy with low accelerating voltage. Nature Chemistry, 2009, 1, 415-418.	6.6	152
114	Narrow bandgap oxide nanoparticles coupled with graphene for high performance mid-infrared photodetection. Nature Communications, 2018, 9, 4299.	5.8	151
115	Fabricating Dualâ€Atom Iron Catalysts for Efficient Oxygen Evolution Reaction: A Heteroatom Modulator Approach. Angewandte Chemie - International Edition, 2020, 59, 16013-16022.	7.2	151
116	Fast Photoresponse from 1T Tin Diselenide Atomic Layers. Advanced Functional Materials, 2016, 26, 137-145.	7.8	150
117	Direct observation of ultrafast plasmonic hot electron transfer in the strong coupling regime. Light: Science and Applications, 2019, 8, 9.	7.7	150
118	Construction of a 2D Grapheneâ€Like MoS₂/C₃N₄ Heterojunction with Enhanced Visibleâ€Light Photocatalytic Activity and Photoelectrochemical Activity. Chemistry - A European Journal, 2016, 22, 4764-4773.	1.7	149
119	Multilayerâ€Folded Graphene Ribbon Film with Ultrahigh Areal Capacitance and High Rate Performance for Compressible Supercapacitors. Advanced Functional Materials, 2018, 28, 1800597.	7.8	149
120	Engineering Highâ€Spin State Cobalt Cations in Spinel Zinc Cobalt Oxide for Spin Channel Propagation and Active Site Enhancement in Water Oxidation. Angewandte Chemie - International Edition, 2021, 60, 14536-14544.	7.2	149
121	Exfoliation at the Liquid/Air Interface to Assemble Reduced Graphene Oxide Ultrathin Films for a Flexible Noncontact Sensing Device. Advanced Materials, 2015, 27, 1370-1375.	11.1	148
122	Van der Waals negative capacitance transistors. Nature Communications, 2019, 10, 3037.	5.8	144
123	Machine-Learning-Driven Synthesis of Carbon Dots with Enhanced Quantum Yields. ACS Nano, 2020, 14, 14761-14768.	7.3	143
124	Imaging the atomic structure of activated carbon. Journal of Physics Condensed Matter, 2008, 20, 362201.	0.7	142
125	Mesoscopic Constructs of Ordered and Oriented Metalâ€“Organic Frameworks on Plasmonic Silver Nanocrystals. Journal of the American Chemical Society, 2015, 137, 2199-2202.	6.6	141
126	Stacking-Dependent Interlayer Coupling in Trilayer MoS₂ with Broken Inversion Symmetry. Nano Letters, 2015, 15, 8155-8161.	4.5	141

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127	Bismuth Vacancy-Tuned Bismuth Oxybromide Ultrathin Nanosheets toward Photocatalytic CO₂ Reduction. ACS Applied Materials & Interfaces, 2019, 11, 30786-30792.	4.0	140
128	Strong coupling and pressure engineering in WSe2â€“MoSe2 heterobilayers. Nature Physics, 2021, 17, 92-98.	6.5	140
129	Recent advances in ternary two-dimensional materials: synthesis, properties and applications. Journal of Materials Chemistry A, 2017, 5, 22855-22876.	5.2	137
130	An HREM Study of Channel Structures in Mesoporous Silica SBA-15 and Platinum Wires Produced in the Channels. ChemPhysChem, 2001, 2, 229-231.	1.0	136
131	Sulfurâ€Impregnated, Sandwichâ€Type, Hybrid Carbon Nanosheets with Hierarchical Porous Structure for Highâ€Performance Lithiumâ€Sulfur Batteries. Advanced Energy Materials, 2014, 4, 1301988.	10.2	130
132	Improving Polysulfides Adsorption and Redox Kinetics by the Co₄N Nanoparticle/Nâ€Doped Carbon Composites for Lithiumâ€Sulfur Batteries. Small, 2019, 15, e1901454.	5.2	130
133	Highly Stretchable Graphene Fibers with Ultrafast Electrothermal Response for Lowâ€Voltage Wearable Heaters. Advanced Electronic Materials, 2017, 3, 1600425.	2.6	128
134	Tellurium-Assisted Low-Temperature Synthesis of MoS₂ and WS₂ Monolayers. ACS Nano, 2015, 9, 11658-11666.	7.3	123
135	Metalâ€“Semiconductor Phaseâ€Transition in WSe_{2(1â€}_x₎Te₂_x Monolayer. Advanced Materials, 2017, 29, 1603991.	11.1	123
136	Understanding the Synergistic Effects of Cobalt Single Atoms and Small Nanoparticles: Enhancing Oxygen Reduction Reaction Catalytic Activity and Stability for Zincâ€Air Batteries. Advanced Functional Materials, 2021, 31, 2104735.	7.8	123
137	Chemical Vapor Deposition of Highâ€Quality and Atomically Layered ReS₂. Small, 2015, 11, 5423-5429.	5.2	122
138	Electrical Transport Properties of Polycrystalline Monolayer Molybdenum Disulfide. ACS Nano, 2014, 8, 7930-7937.	7.3	121
139	Periodic Organicâ€“Inorganic Halide Perovskite Microplatelet Arrays on Silicon Substrates for Roomâ€Temperature Lasing. Advanced Science, 2016, 3, 1600137.	5.6	121
140	Characterization of Chiral Mesoporous Materials by Transmission Electron Microscopy. Small, 2005, 1, 233-237.	5.2	120
141	Boron Nitrideâ€“Graphene Nanocapacitor and the Origins of Anomalous Size-Dependent Increase of Capacitance. Nano Letters, 2014, 14, 1739-1744.	4.5	120
142	Phase-controllable growth of ultrathin 2D magnetic FeTe crystals. Nature Communications, 2020, 11, 3729.	5.8	120
143	A Gasâ€Steamed MOF Route to Pâ€Doped Open Carbon Cages with Enhanced Znâ€Ion Energy Storage Capability and Ultrastability. Advanced Materials, 2021, 33, e2101698.	11.1	120
144	Lyotropic Liquid Crystal of Polyacrylonitrile-Grafted Graphene Oxide and Its Assembled Continuous Strong Nacre-Mimetic Fibers. Macromolecules, 2013, 46, 6931-6941.	2.2	119

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145	Versatile Electronic Skins for Motion Detection of Joints Enabled by Aligned Fewâ€Walled Carbon Nanotubes in Flexible Polymer Composites. Advanced Functional Materials, 2017, 27, 1606604.	7.8	119
146	Cobalt nitride as a novel cocatalyst to boost photocatalytic CO2 reduction. Nano Energy, 2021, 79, 105429.	8.2	117
147	Fabrication of a Spherical Superstructure of Carbon Nanorods. Advanced Materials, 2019, 31, e1900440.	11.1	116
148	Fermi arc electronic structure and Chern numbers in the type-II Weyl semimetal candidate<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Mo</mml:mi><mml:mi>x</mml:mi></mml:m mathvariant="normal">W</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^’</mml:mo><mml:mi>x</mml:mi></mml:mrow><, Physical Review B, 2016, 94, .	11.1	115
149	Tailoring MoS₂ Excitonâ€“Plasmon Interaction by Optical Spinâ€“Orbit Coupling. ACS Nano, 2017, 11, 1165-1171.	7.3	114
150	Amorphizing noble metal chalcogenide catalysts at the single-layer limit towards hydrogen production. Nature Catalysis, 2022, 5, 212-221.	16.1	113
151	Enhanced performance of in-plane transition metal dichalcogenides monolayers by configuring local atomic structures. Nature Communications, 2020, 11, 2253.	5.8	112
152	Novel <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Pd</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mn> Two-Dimensional Phase Driven by Interlayer Fusion in Layered <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>PdSe</mml:mi></mml:mrow. Physical Review Letters, 2017, 119, 016101.	2.9	111
153	Auto-optimizing Hydrogen Evolution Catalytic Activity of ReS₂ through Intrinsic Charge Engineering. ACS Nano, 2018, 12, 4486-4493.	7.3	111
154	Controlled Synthesis of Organic/Inorganic van der Waals Solid for Tunable Lightâ€“Matter Interactions. Advanced Materials, 2015, 27, 7800-7808.	11.1	109
155	Embedding Ultrafine Metal Oxide Nanoparticles in Monolayered Metalâ€“Organic Framework Nanosheets Enables Efficient Electrocatalytic Oxygen Evolution. ACS Nano, 2020, 14, 1971-1981.	7.3	109
156	Surface Local Polarization Induced by Bismuthâ€Oxygen Vacancy Pairs Tuning Nonâ€Covalent Interaction for CO₂ Photoreduction. Advanced Energy Materials, 2021, 11, 2102389.	10.2	109
157	Controllable Synthesis of Atomically Thin Typeâ€II Weyl Semimetal WTe₂ Nanosheets: An Advanced Electrode Material for Allâ€Solidâ€State Flexible Supercapacitors. Advanced Materials, 2017, 29, 1701909.	11.1	107
158	Defect engineering in atomically-thin bismuth oxychloride towards photocatalytic oxygen evolution. Journal of Materials Chemistry A, 2017, 5, 14144-14151.	5.2	107
159	The First Zeolite with Three-Dimensional Intersecting Straight-Channel System of 12-Membered Rings. Journal of the American Chemical Society, 2001, 123, 5370-5371.	6.6	105
160	Carbon Microtube Aerogel Derived from Kapok Fiber: An Efficient and Recyclable Sorbent for Oils and Organic Solvents. ACS Nano, 2020, 14, 595-602.	7.3	104
161	Hierarchical Sandwich-Like Structure of Ultrafine N-Rich Porous Carbon Nanospheres Grown on Graphene Sheets as Superior Lithium-Ion Battery Anodes. ACS Applied Materials & Interfaces, 2016, 8, 10324-10333.	4.0	100
162	A Honeycombâ€Like Bulk Superstructure of Carbon Nanosheets for Electrocatalysis and Energy Storage. Angewandte Chemie - International Edition, 2020, 59, 19627-19632.	7.2	100

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163	Monolayers of WxMo1â^'xS2 alloy heterostructure with in-plane composition variations. Applied Physics Letters, 2015, 106, .	1.5	99
164	Spatially dispersive circular photogalvanic effect in a Weyl semimetal. Nature Materials, 2019, 18, 955-962.	13.3	99
165	Van der Waals pâ€“n Junction Based on an Organicâ€“Inorganic Heterostructure. Advanced Functional Materials, 2015, 25, 5865-5871.	7.8	98
166	Signatures of a time-reversal symmetric Weyl semimetal with only four Weyl points. Nature Communications, 2017, 8, 942.	5.8	98
167	Van der Waals engineering of ferroelectric heterostructures for long-retention memory. Nature Communications, 2021, 12, 1109.	5.8	98
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