

# Wu Zhou

## List of Publications by Year in descending order

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229  
papers

35,895  
citations

2795

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docs citations

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times ranked

35091  
citing authors

#	ARTICLE	IF	CITATIONS
1	Atomically dispersed Ir <sub>1</sub> -MoC catalyst with high metal loading and thermal stability for water-promoted hydrogenation reaction. National Science Review, 2022, 9, nwab026.	4.6	41
2	Artificial Neuron Networks Enabled Identification and Characterizations of 2D Materials and van der Waals Heterostructures. ACS Nano, 2022, 16, 2721-2729.	7.3	22
3	Observation of an Incommensurate Charge Density Wave in Monolayer $\text{TiSe}_2$ . <a href="https://doi.org/10.1021/acsnano.2c02601">https://doi.org/10.1021/acsnano.2c02601</a>	7.8	28
4	Electron Energy Loss Spectroscopy for Single Atom Catalysis. Topics in Catalysis, 2022, 65, 1609-1619.	1.3	13
5	Unprecedentedly high activity and selectivity for hydrogenation of nitroarenes with single atomic Co <sub>1</sub> -N <sub>3</sub> P <sub>1</sub> sites. Nature Communications, 2022, 13, 723.	5.8	91
6	Bendable Polycrystalline and Magnetic CoFe <sub>2</sub> O <sub>4</sub> Membranes by Chemical Methods. ACS Applied Materials & Interfaces, 2022, 14, 12845-12854.	4.0	17
7	Importance of Species Heterogeneity in Supported Metal Catalysts. Journal of the American Chemical Society, 2022, 144, 5108-5115.	6.6	60
8	Engineering Interlayer Electron-Phonon Coupling in WS <sub>2</sub> /BN Heterostructures. Nano Letters, 2022, 22, 2725-2733.	4.5	7
9	Direct growth of single-metal-atom chains. , 2022, 1, 245-253.		16
10	Accurate and Robust Calibration of the Uniform Affine Transformation Between Scan-Camera Coordinates for Atom-Resolved In-Focus 4D-STEM Datasets. Microscopy and Microanalysis, 2022, 28, 622-632.	0.2	4
11	Electrochemical CO <sub>2</sub> reduction to ethylene by ultrathin CuO nanoplate arrays. Nature Communications, 2022, 13, 1877.	5.8	172
12	Catalytic Synthesis of Formamides by Integrating CO <sub>2</sub> Capture and Morpholine Formylation on Supported Iridium Catalyst. Angewandte Chemie - International Edition, 2022, 61, .	7.2	25
13	Catalytic Synthesis of Formamides by Integrating CO <sub>2</sub> Capture and Morpholine Formylation on Supported Iridium Catalyst. Angewandte Chemie, 2022, 134, .	1.6	3
14	Strong Moiré Excitons in High-Angle Twisted Transition Metal Dichalcogenide Homobilayers with Robust Commensuration. Nano Letters, 2022, 22, 203-210.	4.5	12
15	Insight into the Activity of Atomically Dispersed Cu Catalysts for Semihydrogenation of Acetylene: Impact of Coordination Environments. ACS Catalysis, 2022, 12, 48-57.	5.5	23
16	Fully exposed palladium cluster catalysts enable hydrogen production from nitrogen heterocycles. Nature Catalysis, 2022, 5, 485-493.	16.1	118
17	Exchange Bias Effects in Ferromagnetic MnSb <sub>2</sub> Te <sub>4</sub> down to a Monolayer. ACS Applied Electronic Materials, 2022, 4, 3256-3262.	2.0	5
18	Dimensional crossover in self-intercalated antiferromagnetic $\text{V}_5\text{S}_8$ nanoflakes. Physical Review B, 2022, 105, .	1.1	6

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19	Self-synergistic cobalt catalysts with symbiotic metal single-atoms and nanoparticles for efficient oxygen reduction. <i>Journal of Materials Chemistry A</i> , 2021, 9, 1127-1133.	5.2	21
20	Alloying Nickel with Molybdenum Significantly Accelerates Alkaline Hydrogen Electrocatalysis. <i>Angewandte Chemie</i> , 2021, 133, 5835-5841.	1.6	37
21	Alloying Nickel with Molybdenum Significantly Accelerates Alkaline Hydrogen Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 5771-5777.	7.2	182
22	A stable low-temperature H <sub>2</sub> -production catalyst by crowding Pt on 1T-MoC. <i>Nature</i> , 2021, 589, 396-401.	13.7	290
23	Anomalous thickness dependence of Curie temperature in air-stable two-dimensional ferromagnetic 1T-CrTe <sub>2</sub> grown by chemical vapor deposition. <i>Nature Communications</i> , 2021, 12, 809.	5.8	196
24	Unveiling Atomic-Scale Moiré Features and Atomic Reconstructions in High-Angle Commensurately Twisted Transition Metal Dichalcogenide Homobilayers. <i>Nano Letters</i> , 2021, 21, 3262-3270.	4.5	15
25	Thermodynamics of order and randomness in dopant distributions inferred from atomically resolved imaging. <i>Npj Computational Materials</i> , 2021, 7, .	3.5	1
26	Investigating phase transitions from local crystallographic analysis based on statistical learning of atomic environments in 2D MoS <sub>2</sub> -ReS <sub>2</sub> . <i>Applied Physics Reviews</i> , 2021, 8, 011409.	5.5	7
27	Atomically sharp interface enabled ultrahigh-speed non-volatile memory devices. <i>Nature Nanotechnology</i> , 2021, 16, 882-887.	15.6	105
28	Synergizing metal-support interactions and spatial confinement boosts dynamics of atomic nickel for hydrogenations. <i>Nature Nanotechnology</i> , 2021, 16, 1141-1149.	15.6	165
29	Dynamic Behavior of Single-Atom Catalysts in Electrocatalysis: Identification of Cu-N <sub>3</sub> as an Active Site for the Oxygen Reduction Reaction. <i>Journal of the American Chemical Society</i> , 2021, 143, 14530-14539.	6.6	218
30	Interfacial Intermixing and Its Impact on the Energy Band Structure in Interband Cascade Infrared Photodetectors. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 38553-38560.	4.0	4
31	Sub-10-nm graphene nanoribbons with atomically smooth edges from squashed carbon nanotubes. <i>Nature Electronics</i> , 2021, 4, 653-663.	13.1	61
32	Catalytic Amination of Polylactic Acid to Alanine. <i>Journal of the American Chemical Society</i> , 2021, 143, 16358-16363.	6.6	82
33	Diverse Spin-Polarized In-Gap States at Grain Boundaries of Rhenium Dichalcogenides Induced by Unsaturated Re-Re Bonding. , 2021, 3, 1513-1520.		4
34	Facile Chemical Route to Prepare Water Soluble Epitaxial Sr <sub>3</sub> Al <sub>2</sub> O <sub>6</sub> Sacrificial Layers for Free-standing Oxides. <i>Advanced Materials Interfaces</i> , 2021, 8, 2001643.	1.9	13
35	Atomically Dispersed Ni/1T-MoC Catalyst for Hydrogen Production from Methanol/Water. <i>Journal of the American Chemical Society</i> , 2021, 143, 309-317.	6.6	168
36	Maximizing the Synergistic Effect of CoNi Catalyst on 1T-MoC for Robust Hydrogen Production. <i>Journal of the American Chemical Society</i> , 2021, 143, 628-633.	6.6	132

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37	Ferritin-based targeted delivery of arsenic to diverse leukaemia types confers strong anti-leukaemia therapeutic effects. <i>Nature Nanotechnology</i> , 2021, 16, 1413-1423.	15.6	44
38	In-situ spectroscopic observation of dynamic-coupling oxygen on atomically dispersed iridium electrocatalyst for acidic water oxidation. <i>Nature Communications</i> , 2021, 12, 6118.	5.8	115
39	Two distinct superconducting states controlled by orientations of local wrinkles in LiFeAs. <i>Nature Communications</i> , 2021, 12, 6312.	5.8	16
40	Boosting Activity and Stability of Metal Single-Atom Catalysts via Regulation of Coordination Number and Local Composition. <i>Journal of the American Chemical Society</i> , 2021, 143, 18854-18858.	6.6	93
41	Non-Bonding Interaction of Neighboring Fe and Ni Single-Atom Pairs on MOF-Derived N-Doped Carbon for Enhanced CO <sub>2</sub> Electroreduction. <i>Journal of the American Chemical Society</i> , 2021, 143, 19417-19424.	6.6	305
42	Anisotropic point defects in rhenium diselenide monolayers. <i>IScience</i> , 2021, 24, 103456.	1.9	11
43	Optimizing Electron Densities of Ni <sup>II</sup> Complexes by Hybrid Coordination for Efficient Electrocatalytic CO <sub>2</sub> Reduction. <i>ChemSusChem</i> , 2020, 13, 929-937.	3.6	76
44	Impact of the Coordination Environment on Atomically Dispersed Pt Catalysts for Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2020, 10, 907-913.	5.5	121
45	Pristine edge structures of T <sup>2+</sup> -phase transition metal dichalcogenides (ReSe <sub>2</sub> ), Tj ETQq1 1 0.784314 rgBT /Overloc	2.8	15
46	Single-atom electron microscopy for energy-related nanomaterials. <i>Journal of Materials Chemistry A</i> , 2020, 8, 16142-16165.	5.2	20
47	Using graphene to suppress the selenization of Pt for controllable fabrication of monolayer PtSe <sub>2</sub> . <i>Nano Research</i> , 2020, 13, 3212-3216.	5.8	4
48	Enhanced performance of in-plane transition metal dichalcogenides monolayers by configuring local atomic structures. <i>Nature Communications</i> , 2020, 11, 2253.	5.8	112
49	Engineering covalently bonded 2D layered materials by self-intercalation. <i>Nature</i> , 2020, 581, 171-177.	13.7	185
50	Selective linear etching of monolayer black phosphorus using electron beams*. <i>Chinese Physics B</i> , 2020, 29, 086801.	0.7	2
51	Dynamic Evolution of Solid-Liquid Electrochemical Interfaces over Single-Atom Active Sites. <i>Journal of the American Chemical Society</i> , 2020, 142, 12306-12313.	6.6	124
52	Air-Stable Monolayer Cu <sub>2</sub> Se Exhibits a Purely Thermal Structural Phase Transition. <i>Advanced Materials</i> , 2020, 32, e1908314.	11.1	26
53	Boosting hydrogen evolution on MoS <sub>2</sub> via co-confining selenium in surface and cobalt in inner layer. <i>Nature Communications</i> , 2020, 11, 3315.	5.8	229
54	Strain-driven growth of ultra-long two-dimensional nano-channels. <i>Nature Communications</i> , 2020, 11, 772.	5.8	31

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55	Synthesis of Co-Doped MoS <sub>2</sub> Monolayers with Enhanced Valley Splitting. <i>Advanced Materials</i> , 2020, 32, e1906536.	11.1	84
56	Electroreduction of CO <sub>2</sub> to Formate on a Copper-Based Electrocatalyst at High Pressures with High Energy Conversion Efficiency. <i>Journal of the American Chemical Society</i> , 2020, 142, 7276-7282.	6.6	165
57	Selective electrochemical production of hydrogen peroxide at zigzag edges of exfoliated molybdenum telluride nanoflakes. <i>National Science Review</i> , 2020, 7, 1360-1366.	4.6	40
58	InSe/hBN/graphite heterostructure for high-performance 2D electronics and flexible electronics. <i>Nano Research</i> , 2020, 13, 1127-1132.	5.8	48
59	Detection of defects in atomic-resolution images of materials using cycle analysis. <i>Advanced Structural and Chemical Imaging</i> , 2020, 6, .	4.0	11
60	Progress on large field-of-view coded aperture push-broom Compton scatter imaging. , 2020, , .		0
61	Electronic Structure and Coupling of Re Clusters In Monolayer MoS <sub>2</sub> . <i>Microscopy and Microanalysis</i> , 2019, 25, 506-507.	0.2	0
62	Engineering and Modifying Two-Dimensional Materials via Electron Beams. <i>Microscopy and Microanalysis</i> , 2019, 25, 1474-1475.	0.2	0
63	Atomically Dispersed Semimetallic Selenium on Porous Carbon Membrane as an Electrode for Hydrazine Fuel Cells. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 13466-13471.	7.2	99
64	Atomically Dispersed Semimetallic Selenium on Porous Carbon Membrane as an Electrode for Hydrazine Fuel Cells. <i>Angewandte Chemie</i> , 2019, 131, 13600-13605.	1.6	32
65	Observation of the Kondo Effect in Multilayer Single-Crystalline VTe <sub>2</sub> Nanoplates. <i>Nano Letters</i> , 2019, 19, 8572-8580.	4.5	52
66	Innentitelbild: Atomically Dispersed Semimetallic Selenium on Porous Carbon Membrane as an Electrode for Hydrazine Fuel Cells (Angew. Chem. 38/2019). <i>Angewandte Chemie</i> , 2019, 131, 13298-13298.	1.6	0
67	Weakening hydrogen adsorption on nickel <i>via</i> interstitial nitrogen doping promotes bifunctional hydrogen electrocatalysis in alkaline solution. <i>Energy and Environmental Science</i> , 2019, 12, 3522-3529.	15.6	177
68	Construction of a sp <sup>3</sup> /sp <sup>2</sup> Carbon Interface in 3D N-Doped Nanocarbons for the Oxygen Reduction Reaction. <i>Angewandte Chemie</i> , 2019, 131, 15233-15241.	1.6	49
69	Construction of a sp <sup>3</sup> /sp <sup>2</sup> Carbon Interface in 3D N-Doped Nanocarbons for the Oxygen Reduction Reaction. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15089-15097.	7.2	215
70	Controlled synthesis and room-temperature pyroelectricity of CuInP <sub>2</sub> S <sub>6</sub> ultrathin flakes. <i>Nano Energy</i> , 2019, 58, 596-603.	8.2	52
71	Plasmon-induced hot electron transfer in Au@ZnO heterogeneous nanorods for enhanced SERS. <i>Nanoscale</i> , 2019, 11, 11782-11788.	2.8	38
72	Structural defects on converted bismuth oxide nanotubes enable highly active electrocatalysis of carbon dioxide reduction. <i>Nature Communications</i> , 2019, 10, 2807.	5.8	456

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73	Spectroscopic signatures of edge states in hexagonal boron nitride. Nano Research, 2019, 12, 1663-1667.	5.8	7
74	Discovering superior basal plane active two-dimensional catalysts for hydrogen evolution. Materials Today, 2019, 25, 28-34.	8.3	58
75	Direct Cation Exchange in Monolayer $\text{MoS}_2$ via Recombination-Enhanced Migration. Physical Review Letters, 2019, 122, 106101.	11.1	21
76	Atomically-thin $\text{Bi}_2\text{MoO}_6$ nanosheets with vacancy pairs for improved photocatalytic $\text{CO}_2$ reduction. Nano Energy, 2019, 61, 54-59.	8.2	243
77	An electrodeposition approach to metal/metal oxide heterostructures for active hydrogen evolution catalysts in near-neutral electrolytes. Nano Research, 2019, 12, 1431-1435.	5.8	31
78	A highly CO-tolerant atomically dispersed Pt catalyst for chemoselective hydrogenation. Nature Nanotechnology, 2019, 14, 354-361.	15.6	292
79	Healing of Planar Defects in 2D Materials via Grain Boundary Sliding. Advanced Materials, 2019, 31, e1900237.	11.1	38
80	Edge Segregated Polymorphism in 2D Molybdenum Carbide. Advanced Materials, 2019, 31, e1808343.	11.1	56
81	Spatially controlled doping of two-dimensional $\text{SnS}_2$ through intercalation for electronics. Nature Nanotechnology, 2018, 13, 294-299.	15.6	269
82	Atomically thin noble metal dichalcogenide: a broadband mid-infrared semiconductor. Nature Communications, 2018, 9, 1545.	5.8	367
83	Local low rank denoising for enhanced atomic resolution imaging. Ultramicroscopy, 2018, 187, 34-42.	0.8	14
84	Strain Modulation by van der Waals Coupling in Bilayer Transition Metal Dichalcogenide. ACS Nano, 2018, 12, 1940-1948.	7.3	51
85	Mo-Terminated Edge Reconstructions in Nanoporous Molybdenum Disulfide Film. Nano Letters, 2018, 18, 482-490.	4.5	105
86	Controllable deuteration of halogenated compounds by photocatalytic $\text{D}_2\text{O}$ splitting. Nature Communications, 2018, 9, 80.	5.8	123
87	Atom-by-Atom Fabrication of Monolayer Molybdenum Membranes. Advanced Materials, 2018, 30, e1707281.	11.1	66
88	Temperature- and Phase-Dependent Phonon Renormalization in $1\text{T}'\text{-MoS}_2$ . ACS Nano, 2018, 12, 5051-5058.	7.3	63
89	Dislocation-driven growth of two-dimensional lateral quantum-well superlattices. Science Advances, 2018, 4, eaap9096.	4.7	38
90	Rhenium-Doped and Stabilized $\text{MoS}_2$ Atomic Layers with Basal Plane Catalytic Activity. Advanced Materials, 2018, 30, e1803477.	11.1	164

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91	Improving the STEM Spatial Resolution Limit. <i>Microscopy and Microanalysis</i> , 2018, 24, 18-19.	0.2	8
92	Defect in 2D materials beyond graphene. , 2018, , 161-187.		4
93	Molecular Beam Epitaxy of Highly Crystalline MoSe <sub>2</sub> on Hexagonal Boron Nitride. <i>ACS Nano</i> , 2018, 12, 7562-7570.	7.3	70
94	High-resolution electron microscopy for heterogeneous catalysis research. <i>Chinese Physics B</i> , 2018, 27, 056804.	0.7	6
95	Dislocation-Driven Growth of Two-Dimensional Lateral Quantum Well Superlattices. <i>Microscopy and Microanalysis</i> , 2018, 24, 88-89.	0.2	0
96	Chemical Insights into the Design and Development of Face-Centered Cubic Ruthenium Catalysts for Fischer-Tropsch Synthesis. <i>Journal of the American Chemical Society</i> , 2017, 139, 2267-2276.	6.6	147
97	Large Area Synthesis of 1D MoSe <sub>2</sub> Using Molecular Beam Epitaxy. <i>Advanced Materials</i> , 2017, 29, 1605641.	11.1	54
98	Chemical Stabilization of 1T Phase Transition Metal Dichalcogenides with Giant Optical Kerr Nonlinearity. <i>Journal of the American Chemical Society</i> , 2017, 139, 2504-2511.	6.6	171
99	A short story of imaging and spectroscopy of two-dimensional materials by scanning transmission electron microscopy. <i>Ultramicroscopy</i> , 2017, 180, 156-162.	0.8	13
100	Nature of Catalytically Active Sites in the Supported WO <sub>3</sub> /ZrO <sub>2</sub> Solid Acid System: A Current Perspective. <i>ACS Catalysis</i> , 2017, 7, 2181-2198.	5.5	77
101	Direct growth of MoS <sub>2</sub> single crystals on polyimide substrates. <i>2D Materials</i> , 2017, 4, 021028.	2.0	39
102	Molecular Beam Epitaxy of Highly Crystalline Monolayer Molybdenum Disulfide on Hexagonal Boron Nitride. <i>Journal of the American Chemical Society</i> , 2017, 139, 9392-9400.	6.6	167
103	Atomic-layered Au clusters on 1T-MoC as catalysts for the low-temperature water-gas shift reaction. <i>Science</i> , 2017, 357, 389-393.	6.0	534
104	Intrinsically patterned two-dimensional materials for selective adsorption of molecules and nanoclusters. <i>Nature Materials</i> , 2017, 16, 717-721.	13.3	150
105	Synthesis of large-scale atomic-layer SnS <sub>2</sub> through chemical vapor deposition. <i>Nano Research</i> , 2017, 10, 2386-2394.	5.8	124
106	Low-temperature hydrogen production from water and methanol using Pt/1T-MoC catalysts. <i>Nature</i> , 2017, 544, 80-83.	13.7	1,090
107	Worm-like Shape Pt Nanocrystals Grown on Nitrogen-Doped Low-Defect Graphene Sheets: Highly Efficient Electrocatalysts for Methanol Oxidation Reaction. <i>Small</i> , 2017, 13, 1603013.	5.2	151
108	Chemical Vapor Deposition of Large-Size Monolayer MoSe <sub>2</sub> Crystals on Molten Glass. <i>Journal of the American Chemical Society</i> , 2017, 139, 1073-1076.	6.6	258

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109	Controlled growth of ultrathin Mo <sub>2</sub> C superconducting crystals on liquid Cu surface. 2D Materials, 2017, 4, 011012.	2.0	112
110	Formation of Single-atom-thick Copper Oxide Monolayers. Microscopy and Microanalysis, 2017, 23, 1684-1685.	0.2	1
111	Engineering and modifying two-dimensional materials by electron beams. MRS Bulletin, 2017, 42, 667-676.	1.7	62
112	Fast kinetics of magnesium monochloride cations in interlayer-expanded titanium disulfide for magnesium rechargeable batteries. Nature Communications, 2017, 8, 339.	5.8	304
113	PdSe <sub>2</sub> : Pentagonal Two-Dimensional Layers with High Air Stability for Electronics. Journal of the American Chemical Society, 2017, 139, 14090-14097.	6.6	509
114	Direct Synthesis of Large-Area 2D Mo <sub>2</sub> C on In Situ Grown Graphene. Advanced Materials, 2017, 29, 1700072.	11.1	305
115	<i>In Situ</i> Observation and Electrochemical Study of Encapsulated Sulfur Nanoparticles by MoS <sub>2</sub> Flakes. Journal of the American Chemical Society, 2017, 139, 10133-10141.	6.6	126
116	Current rectification and asymmetric photoresponse in MoS <sub>2</sub> stacking-induced homojunctions. 2D Materials, 2017, 4, 035011.	2.0	13
117	Brittle Fracture of 2D MoSe <sub>2</sub> . Advanced Materials, 2017, 29, 1604201.	11.1	138
118	Large-Area and High-Quality 2D Transition Metal Telluride. Advanced Materials, 2017, 29, 1603471.	11.1	181
119	Unsupported single-atom-thick copper oxide monolayers. 2D Materials, 2017, 4, 011001.	2.0	44
120	High-Electron-Mobility and Air-Stable 2D Layered PtSe <sub>2</sub> FETs. Advanced Materials, 2017, 29, 1604230.	11.1	502
121	Exchange of Re and Mo atoms in MoS <sub>2</sub> driven by Scanning Transmission Electron Microscopy. Microscopy and Microanalysis, 2017, 23, 1702-1703.	0.2	0
122	Low voltage scanning transmission electron microscopy for two-dimensional materials. Wuli Xuebao/Acta Physica Sinica, 2017, 66, 217303.	0.2	0
123	Microstructure Characterization of Nanoscale Materials and Interconnects. , 2017, , 489-534.		0
124	Atomic Structure and Properties of Dislocations and Grain Boundaries. , 2016, , .		0
125	Low-Loss Imaging of Defect Structures in Two Dimensional Materials Using Aberration Corrected Scanning Transmission Electron Microscopy. Microscopy and Microanalysis, 2016, 22, 1410-1411.	0.2	0
126	Atomic Level Structure-Property Relationship in a Spin-Orbit Mott insulator: Scanning Transmission Electron and Scanning Tunneling Microscopy Studies. Microscopy and Microanalysis, 2016, 22, 908-909.	0.2	0





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145	Interfaces in Two-Dimensional Heterostructures of Transition Metal Dichalcogenides. <i>Microscopy and Microanalysis</i> , 2015, 21, 105-106.	0.2	0
146	Functionalization of Graphene. <i>Microscopy and Microanalysis</i> , 2015, 21, 737-738.	0.2	1
147	Low-loss electron energy loss spectroscopy: An atomic-resolution complement to optical spectroscopies and application to graphene. <i>Physical Review B</i> , 2015, 92, .	1.1	29
148	Rapid and Nondestructive Identification of Polytypism and Stacking Sequences in Few-Layer Molybdenum Diselenide by Raman Spectroscopy. <i>Advanced Materials</i> , 2015, 27, 4502-4508.	11.1	96
149	Chemical Vapor Deposition of Monolayer Rhenium Disulfide (ReS <sub>2</sub> ). <i>Advanced Materials</i> , 2015, 27, 4640-4648.	11.1	203
150	Controlled Synthesis of Organic/Inorganic van der Waals Solid for Tunable Light-Matter Interactions. <i>Advanced Materials</i> , 2015, 27, 7800-7808.	11.1	109
151	Blending Cr <sub>2</sub> O <sub>3</sub> into a NiO-Ni Electrocatalyst for Sustained Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 11989-11993.	7.2	172
152	Defect Dynamics in 2D Transition Metal Dichalcogenide Monolayers. <i>Microscopy and Microanalysis</i> , 2015, 21, 433-434.	0.2	1
153	Study on the fabrication and performance of Mn <sub>1.56</sub> Co <sub>0.96</sub> Ni <sub>0.48</sub> O <sub>4</sub> film optically immersed infrared detector. <i>Materials Research Innovations</i> , 2015, 19, S7-S10.	1.0	6
154	The observation of square ice in graphene questioned. <i>Nature</i> , 2015, 528, E1-E2.	18.7	95
155	Insights into the physical chemistry of materials from advances in HAADF-STEM. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 3982-4006.	1.3	72
156	Boron- and Nitrogen-Substituted Graphene Nanoribbons as Efficient Catalysts for Oxygen Reduction Reaction. <i>Chemistry of Materials</i> , 2015, 27, 1181-1186.	3.2	219
157	Controlled Formation of Mixed Nanoscale Domains of High Capacity Fe <sub>2</sub> O <sub>3</sub> → FeF <sub>3</sub> Conversion Compounds by Direct Fluorination. <i>ACS Nano</i> , 2015, 9, 2530-2539.	7.3	51
158	Two-Step Growth of Two-Dimensional WSe <sub>2</sub> /MoSe <sub>2</sub> Heterostructures. <i>Nano Letters</i> , 2015, 15, 6135-6141.	4.5	479
159	Vacancy-Induced Formation and Growth of Inversion Domains in Transition-Metal Dichalcogenide Monolayer. <i>ACS Nano</i> , 2015, 9, 5189-5197.	7.3	167
160	Watching Atoms Work: Nanocluster Structure and Dynamics. <i>ACS Nano</i> , 2015, 9, 9437-9440.	7.3	10
161	Recent Advances in Two-Dimensional Materials beyond Graphene. <i>ACS Nano</i> , 2015, 9, 11509-11539.	7.3	2,069
162	3D Band Diagram and Photoexcitation of 2D → 3D Semiconductor Heterojunctions. <i>Nano Letters</i> , 2015, 15, 5919-5925.	4.5	33

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163	Stacking-Dependent Interlayer Coupling in Trilayer MoS <sub>2</sub> with Broken Inversion Symmetry. Nano Letters, 2015, 15, 8155-8161.	4.5	141
164	Spectroscopic Signatures of AA <sup>2</sup> and AB Stacking of Chemical Vapor Deposited Bilayer MoS <sub>2</sub> . ACS Nano, 2015, 9, 12246-12254.	7.3	117
165	Band Engineering for Novel Two-Dimensional Atomic Layers. Small, 2015, 11, 1868-1884.	5.2	96
166	Facet-Dependent Disorder in Pristine High-Voltage Lithium-Manganese-Rich Cathode Material. ACS Nano, 2014, 8, 12710-12716.	7.3	71
167	Infrared optical properties of Mn <sub>1.56</sub> Co <sub>0.96</sub> Ni <sub>0.48</sub> O <sub>4</sub> thin films prepared by chemical solution deposition. Applied Physics A: Materials Science and Processing, 2014, 114, 829-832.	1.1	17
168	Flexible metallic nanowires with self-adaptive contacts to semiconducting transition-metal dichalcogenide monolayers. Nature Nanotechnology, 2014, 9, 436-442.	15.6	228
169	Electronic and Quantum Transport Properties of Atomically Identified Si Point Defects in Graphene. Journal of Physical Chemistry Letters, 2014, 5, 1711-1718.	2.1	14
170	Large-Area Synthesis of Monolayer and Few-Layer MoSe <sub>2</sub> Films on SiO <sub>2</sub> Substrates. Nano Letters, 2014, 14, 2419-2425.	4.5	376
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