

Wu Zhou

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

218
papers

26,016
citations

77
h-index

160
g-index

237
ext. papers

30,794
ext. citations

13.1
avg, IF

6.87
L-index

#	Paper	IF	Citations
218	Observation of an Incommensurate Charge Density Wave in Monolayer $\text{TiSe}_2/\text{CuSe}/\text{Cu}(111)$ Heterostructure.. <i>Physical Review Letters</i> , 2022 , 128, 026401	7.4	1
217	Unprecedentedly high activity and selectivity for hydrogenation of nitroarenes with single atomic Co-NP sites.. <i>Nature Communications</i> , 2022 , 13, 723	17.4	11
216	Atomically dispersed Ir/ β -MoC catalyst with high metal loading and thermal stability for water-promoted hydrogenation reaction.. <i>National Science Review</i> , 2022 , 9, nwab026	10.8	18
215	Direct growth of single-metal-atom chains 2022 , 1, 245-253		1
214	Accurate and Robust Calibration of the Uniform Affine Transformation Between Scan-Camera Coordinates for Atom-Resolved In-Focus 4D-STEM Datasets.. <i>Microscopy and Microanalysis</i> , 2022 , 1-11	0.5	0
213	Electrochemical CO reduction to ethylene by ultrathin CuO nanoplate arrays.. <i>Nature Communications</i> , 2022 , 13, 1877	17.4	11
212	Insight into the Activity of Atomically Dispersed Cu Catalysts for Semihydrogenation of Acetylene: Impact of Coordination Environments. <i>ACS Catalysis</i> , 2022 , 12, 48-57	13.1	3
211	Two distinct superconducting states controlled by orientations of local wrinkles in LiFeAs . <i>Nature Communications</i> , 2021 , 12, 6312	17.4	1
210	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	16.4	23
209	Non-Bonding Interaction of Neighboring Fe and Ni Single-Atom Pairs on MOF-Derived N-Doped Carbon for Enhanced CO Electroreduction. <i>Journal of the American Chemical Society</i> , 2021 , 143, 19417-19424	16.4	55
208	Anisotropic point defects in rhenium diselenide monolayers. <i>IScience</i> , 2021 , 24, 103456	6.1	0
207	Ferritin-based targeted delivery of arsenic to diverse leukaemia types confers strong anti-leukaemia therapeutic effects. <i>Nature Nanotechnology</i> , 2021 ,	28.7	4
206	In-situ spectroscopic observation of dynamic-coupling oxygen on atomically dispersed iridium electrocatalyst for acidic water oxidation. <i>Nature Communications</i> , 2021 , 12, 6118	17.4	18
205	Atomically Dispersed Ni/ β -MoC Catalyst for Hydrogen Production from Methanol/Water. <i>Journal of the American Chemical Society</i> , 2021 , 143, 309-317	16.4	60
204	Maximizing the Synergistic Effect of CoNi Catalyst on β -MoC for Robust Hydrogen Production. <i>Journal of the American Chemical Society</i> , 2021 , 143, 628-633	16.4	46
203	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	11.5	5
202	Thermodynamics of order and randomness in dopant distributions inferred from atomically resolved imaging. <i>Npj Computational Materials</i> , 2021 , 7,	10.9	1

201	Investigating phase transitions from local crystallographic analysis based on statistical learning of atomic environments in 2D MoS ₂ -ReS ₂ . <i>Applied Physics Reviews</i> , 2021 , 8, 011409	17.3	1
200	Atomically sharp interface enabled ultrahigh-speed non-volatile memory devices. <i>Nature Nanotechnology</i> , 2021 , 16, 882-887	28.7	26
199	Synergizing metal-support interactions and spatial confinement boosts dynamics of atomic nickel for hydrogenations. <i>Nature Nanotechnology</i> , 2021 , 16, 1141-1149	28.7	40
198	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	13	7
197	Alloying Nickel with Molybdenum Significantly Accelerates Alkaline Hydrogen Electrocatalysis. <i>Angewandte Chemie</i> , 2021 , 133, 5835-5841	3.6	5
196	Alloying Nickel with Molybdenum Significantly Accelerates Alkaline Hydrogen Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 5771-5777	16.4	41
195	A stable low-temperature H ₂ -production catalyst by crowding Pt on $\sqrt{3}\times\sqrt{3}$ MoC. <i>Nature</i> , 2021 , 589, 396-401	50.4	109
194	Anomalous thickness dependence of Curie temperature in air-stable two-dimensional ferromagnetic 1T-CrTe grown by chemical vapor deposition. <i>Nature Communications</i> , 2021 , 12, 809	17.4	51
193	Dynamic Behavior of Single-Atom Catalysts in Electrocatalysis: Identification of Cu-N as an Active Site for the Oxygen Reduction Reaction. <i>Journal of the American Chemical Society</i> , 2021 , 143, 14530-14539	16.4	49
192	Interfacial Intermixing and Its Impact on the Energy Band Structure in Interband Cascade Infrared Photodetectors. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 38553-38560	9.5	3
191	Sub-10-nm graphene nanoribbons with atomically smooth edges from squashed carbon nanotubes. <i>Nature Electronics</i> , 2021 , 4, 653-663	28.4	14
190	Catalytic Amination of Polylactic Acid to Alanine. <i>Journal of the American Chemical Society</i> , 2021 , 143, 16358-16363	16.4	10
189	Facile Chemical Route to Prepare Water Soluble Epitaxial Sr ₃ Al ₂ O ₆ Sacrificial Layers for Free-Standing Oxides. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2001643	4.6	4
188	Enhanced performance of in-plane transition metal dichalcogenides monolayers by configuring local atomic structures. <i>Nature Communications</i> , 2020 , 11, 2253	17.4	58
187	Engineering covalently bonded 2D layered materials by self-intercalation. <i>Nature</i> , 2020 , 581, 171-177	50.4	68
186	Selective linear etching of monolayer black phosphorus using electron beams. <i>Chinese Physics B</i> , 2020 , 29, 086801	1.2	1
185	Dynamic Evolution of Solid-Liquid Electrochemical Interfaces over Single-Atom Active Sites. <i>Journal of the American Chemical Society</i> , 2020 , 142, 12306-12313	16.4	47
184	Air-Stable Monolayer Cu ₂ Se Exhibits a Purely Thermal Structural Phase Transition. <i>Advanced Materials</i> , 2020 , 32, e1908314	24	12

183	Boosting hydrogen evolution on MoS via co-confining selenium in surface and cobalt in inner layer. <i>Nature Communications</i> , 2020 , 11, 3315	17.4	95
182	Strain-driven growth of ultra-long two-dimensional nano-channels. <i>Nature Communications</i> , 2020 , 11, 772	17.4	16
181	Synthesis of Co-Doped MoS Monolayers with Enhanced Valley Splitting. <i>Advanced Materials</i> , 2020 , 32, e1906536	24	35
180	Electroreduction of CO 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	16.4	84
179	Selective electrochemical production of hydrogen peroxide at zigzag edges of exfoliated molybdenum telluride nanoflakes. <i>National Science Review</i> , 2020 , 7, 1360-1366	10.8	27
178	Detection of defects in atomic-resolution images of materials using cycle analysis. <i>Advanced Structural and Chemical Imaging</i> , 2020 , 6,	3.9	10
177	Optimizing Electron Densities of Ni-N-C Complexes by Hybrid Coordination for Efficient Electrocatalytic CO Reduction. <i>ChemSusChem</i> , 2020 , 13, 929-937	8.3	35
176	Impact of the Coordination Environment on Atomically Dispersed Pt Catalysts for Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2020 , 10, 907-913	13.1	68
175	Pristine edge structures of TTFphase transition metal dichalcogenides (ReSe, ReS) atomic layers. <i>Nanoscale</i> , 2020 , 12, 17005-17012	7.7	6
174	Single-atom electron microscopy for energy-related nanomaterials. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 16142-16165	13	12
173	Using graphene to suppress the selenization of Pt for controllable fabrication of monolayer PtSe ₂ . <i>Nano Research</i> , 2020 , 13, 3212-3216	10	2
172	InSe/hBN/graphite heterostructure for high-performance 2D electronics and flexible electronics. <i>Nano Research</i> , 2020 , 13, 1127-1132	10	24
171	Weakening hydrogen adsorption on nickel via interstitial nitrogen doping promotes bifunctional hydrogen electrocatalysis in alkaline solution. <i>Energy and Environmental Science</i> , 2019 , 12, 3522-3529	35.4	92
170	Construction of a sp ³ /sp ² Carbon Interface in 3D N-Doped Nanocarbons for the Oxygen Reduction Reaction. <i>Angewandte Chemie</i> , 2019 , 131, 15233-15241	3.6	30
169	Construction of a sp /sp Carbon Interface in 3D N-Doped Nanocarbons for the Oxygen Reduction Reaction. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 15089-15097	16.4	110
168	Controlled synthesis and room-temperature pyroelectricity of CuInP ₂ S ₆ ultrathin flakes. <i>Nano Energy</i> , 2019 , 58, 596-603	17.1	31
167	Plasmon-induced hot electron transfer in Au-ZnO heterogeneous nanorods for enhanced SERS. <i>Nanoscale</i> , 2019 , 11, 11782-11788	7.7	23
166	Structural defects on converted bismuth oxide nanotubes enable highly active electrocatalysis of carbon dioxide reduction. <i>Nature Communications</i> , 2019 , 10, 2807	17.4	252

165	Spectroscopic signatures of edge states in hexagonal boron nitride. <i>Nano Research</i> , 2019 , 12, 1663-1667	10	6
164	Discovering superior basal plane active two-dimensional catalysts for hydrogen evolution. <i>Materials Today</i> , 2019 , 25, 28-34	21.8	31
163	Direct Cation Exchange in Monolayer MoS ₂ via Recombination-Enhanced Migration. <i>Physical Review Letters</i> , 2019 , 122, 106101	7.4	16
162	Atomically-thin Bi ₂ MoO ₆ nanosheets with vacancy pairs for improved photocatalytic CO ₂ reduction. <i>Nano Energy</i> , 2019 , 61, 54-59	17.1	150
161	An electrodeposition approach to metal/metal oxide heterostructures for active hydrogen evolution catalysts in near-neutral electrolytes. <i>Nano Research</i> , 2019 , 12, 1431-1435	10	23
160	A highly CO-tolerant atomically dispersed Pt catalyst for chemoselective hydrogenation. <i>Nature Nanotechnology</i> , 2019 , 14, 354-361	28.7	175
159	Healing of Planar Defects in 2D Materials via Grain Boundary Sliding. <i>Advanced Materials</i> , 2019 , 31, e1900237	23	24
158	Electronic Structure and Coupling of Re Clusters In Monolayer MoS ₂ . <i>Microscopy and Microanalysis</i> , 2019 , 25, 506-507	0.5	
157	Engineering and Modifying Two-Dimensional Materials via Electron Beams. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1474-1475	0.5	
156	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	16.4	55
155	Atomically Dispersed Semimetallic Selenium on Porous Carbon Membrane as an Electrode for Hydrazine Fuel Cells. <i>Angewandte Chemie</i> , 2019 , 131, 13600-13605	3.6	21
154	Observation of the Kondo Effect in Multilayer Single-Crystalline VTe Nanoplates. <i>Nano Letters</i> , 2019 , 19, 8572-8580	11.5	24
153	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	3.6	36
152	Edge Segregated Polymorphism in 2D Molybdenum Carbide. <i>Advanced Materials</i> , 2019 , 31, e1808343	24	40
151	Spatially controlled doping of two-dimensional SnS through intercalation for electronics. <i>Nature Nanotechnology</i> , 2018 , 13, 294-299	28.7	169
150	Atomically thin noble metal dichalcogenide: a broadband mid-infrared semiconductor. <i>Nature Communications</i> , 2018 , 9, 1545	17.4	267
149	Local low rank denoising for enhanced atomic resolution imaging. <i>Ultramicroscopy</i> , 2018 , 187, 34-42	3.1	12
148	Strain Modulation by van der Waals Coupling in Bilayer Transition Metal Dichalcogenide. <i>ACS Nano</i> , 2018 , 12, 1940-1948	16.7	37

147	Mo-Terminated Edge Reconstructions in Nanoporous Molybdenum Disulfide Film. <i>Nano Letters</i> , 2018 , 18, 482-490	11.5	76
146	Controllable deuteration of halogenated compounds by photocatalytic DO splitting. <i>Nature Communications</i> , 2018 , 9, 80	17.4	88
145	Atom-by-Atom Fabrication of Monolayer Molybdenum Membranes. <i>Advanced Materials</i> , 2018 , 30, e1707281	24.1	46
144	Temperature- and Phase-Dependent Phonon Renormalization in 1TTFMoS. <i>ACS Nano</i> , 2018 , 12, 5051-5058	16.7	39
143	Dislocation-driven growth of two-dimensional lateral quantum-well superlattices. <i>Science Advances</i> , 2018 , 4, eaap9096	14.3	30
142	Molecular Beam Epitaxy of Highly Crystalline MoSe on Hexagonal Boron Nitride. <i>ACS Nano</i> , 2018 , 12, 7562-7570	16.7	44
141	High-resolution electron microscopy for heterogeneous catalysis research. <i>Chinese Physics B</i> , 2018 , 27, 056804	1.2	3
140	Dislocation-Driven Growth of Two-Dimensional Lateral Quantum Well Superlattices. <i>Microscopy and Microanalysis</i> , 2018 , 24, 88-89	0.5	
139	Rhenium-Doped and Stabilized MoS Atomic Layers with Basal-Plane Catalytic Activity. <i>Advanced Materials</i> , 2018 , 30, e1803477	24	110
138	Improving the STEM Spatial Resolution Limit. <i>Microscopy and Microanalysis</i> , 2018 , 24, 18-19	0.5	5
137	Defect in 2D materials beyond graphene 2018 , 161-187		1
136	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	16.4	104
135	Large Area Synthesis of 1D-MoSe Using Molecular Beam Epitaxy. <i>Advanced Materials</i> , 2017 , 29, 1605641	24	38
134	Chemical Stabilization of 1TTPPhase Transition Metal Dichalcogenides with Giant Optical Kerr Nonlinearity. <i>Journal of the American Chemical Society</i> , 2017 , 139, 2504-2511	16.4	114
133	A short story of imaging and spectroscopy of two-dimensional materials by scanning transmission electron microscopy. <i>Ultramicroscopy</i> , 2017 , 180, 156-162	3.1	10
132	Nature of Catalytically Active Sites in the Supported WO ₃ /ZrO ₂ Solid Acid System: A Current Perspective. <i>ACS Catalysis</i> , 2017 , 7, 2181-2198	13.1	54
131	Direct growth of MoS ₂ single crystals on polyimide substrates. <i>2D Materials</i> , 2017 , 4, 021028	5.9	27
130	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	16.4	110

129	Atomic-layered Au clusters on β -MoC as catalysts for the low-temperature water-gas shift reaction. <i>Science</i> , 2017 , 357, 389-393	33.3	377
128	Intrinsically patterned two-dimensional materials for selective adsorption of molecules and nanoclusters. <i>Nature Materials</i> , 2017 , 16, 717-721	27	105
127	Synthesis of large-scale atomic-layer SnS ₂ through chemical vapor deposition. <i>Nano Research</i> , 2017 , 10, 2386-2394	10	97
126	Low-temperature hydrogen production from water and methanol using Pt/ β -MoC catalysts. <i>Nature</i> , 2017 , 544, 80-83	50.4	748
125	Worm-Shape Pt Nanocrystals Grown on Nitrogen-Doped Low-Defect Graphene Sheets: Highly Efficient Electrocatalysts for Methanol Oxidation Reaction. <i>Small</i> , 2017 , 13, 1603013	11	117
124	Chemical Vapor Deposition of Large-Size Monolayer MoSe Crystals on Molten Glass. <i>Journal of the American Chemical Society</i> , 2017 , 139, 1073-1076	16.4	196
123	Controlled growth of ultrathin Mo ₂ C superconducting crystals on liquid Cu surface. <i>2D Materials</i> , 2017 , 4, 011012	5.9	67
122	Formation of Single-atom-thick Copper Oxide Monolayers. <i>Microscopy and Microanalysis</i> , 2017 , 23, 1684-1685	1.5	1
121	Engineering and modifying two-dimensional materials by electron beams. <i>MRS Bulletin</i> , 2017 , 42, 667-676	32	48
120	Fast kinetics of magnesium monochloride cations in interlayer-expanded titanium disulfide for magnesium rechargeable batteries. <i>Nature Communications</i> , 2017 , 8, 339	17.4	220
119	PdSe: Pentagonal Two-Dimensional Layers with High Air Stability for Electronics. <i>Journal of the American Chemical Society</i> , 2017 , 139, 14090-14097	16.4	318
118	Direct Synthesis of Large-Area 2D Mo ₂ C on In Situ Grown Graphene. <i>Advanced Materials</i> , 2017 , 29, 1700077	17	195
117	In Situ Observation and Electrochemical Study of Encapsulated Sulfur Nanoparticles by MoS ₂ Flakes. <i>Journal of the American Chemical Society</i> , 2017 , 139, 10133-10141	16.4	106
116	Current rectification and asymmetric photoresponse in MoS ₂ stacking-induced homojunctions. <i>2D Materials</i> , 2017 , 4, 035011	5.9	11
115	Brittle Fracture of 2D MoSe. <i>Advanced Materials</i> , 2017 , 29, 1604201	24	95
114	Large-Area and High-Quality 2D Transition Metal Telluride. <i>Advanced Materials</i> , 2017 , 29, 1603471	24	140
113	Unsupported single-atom-thick copper oxide monolayers. <i>2D Materials</i> , 2017 , 4, 011001	5.9	37
112	High-Electron-Mobility and Air-Stable 2D Layered PtSe FETs. <i>Advanced Materials</i> , 2017 , 29, 1604230	24	368

111	Exchange of Re and Mo atoms in MoS ₂ driven by Scanning Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2017 , 23, 1702-1703	0.5	
110	Low voltage scanning transmission electron microscopy for two-dimensional materials. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2017 , 66, 217303	0.6	
109	Phase Restructuring in Transition Metal Dichalcogenides for Highly Stable Energy Storage. <i>ACS Nano</i> , 2016 , 10, 9208-9215	16.7	160
108	Patterned Growth: Patterned Growth of P-Type MoS ₂ Atomic Layers Using Sol ¹ as Precursor (Adv. Funct. Mater. 35/2016). <i>Advanced Functional Materials</i> , 2016 , 26, 6495-6495	15.6	
107	Patterned Growth of P-Type MoS ₂ Atomic Layers Using Sol ¹ as Precursor. <i>Advanced Functional Materials</i> , 2016 , 26, 6371-6379	15.6	26
106	Room-temperature ferroelectricity in CuInP ₂ S ₆ ultrathin flakes. <i>Nature Communications</i> , 2016 , 7, 12357	17.4	355
105	Two-dimensional GaSe/MoSe ₂ misfit bilayer heterojunctions by van der Waals epitaxy. <i>Science Advances</i> , 2016 , 2, e1501882	14.3	190
104	Signatures of distinct impurity configurations in atomic-resolution valence electron-energy-loss spectroscopy: Application to graphene. <i>Physical Review B</i> , 2016 , 94,	3.3	8
103	Alloying in Flexible Transition-metal Chalcogenide Nanowires. <i>Microscopy and Microanalysis</i> , 2016 , 22, 1424-1425	0.5	
102	Layer Engineering of 2D Semiconductor Junctions. <i>Advanced Materials</i> , 2016 , 28, 5126-32	24	53
101	Defects Engineered Monolayer MoS ₂ for Improved Hydrogen Evolution Reaction. <i>Nano Letters</i> , 2016 , 16, 1097-103	11.5	794
100	Structural Flexibility and Alloying in Ultrathin Transition-Metal Chalcogenide Nanowires. <i>ACS Nano</i> , 2016 , 10, 2782-90	16.7	41
99	Low-Loss Imaging of Defect Structures in Two Dimensional Materials Using Aberration Corrected Scanning Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2016 , 22, 1410-1411	0.5	
98	Atomic Level Structure-Property Relationship in a Spin-Orbit Mott insulator: Scanning Transmission Electron and Scanning Tunneling Microscopy Studies. <i>Microscopy and Microanalysis</i> , 2016 , 22, 908-909	0.5	
97	Synthesis of Millimeter-Scale Transition Metal Dichalcogenides Single Crystals. <i>Advanced Functional Materials</i> , 2016 , 26, 2009-2015	15.6	126
96	MoS ₂ /TiO ₂ Edge-On Heterostructure for Efficient Photocatalytic Hydrogen Evolution. <i>Advanced Energy Materials</i> , 2016 , 6, 1600464	21.8	226
95	Single Atom Imaging and Spectroscopy of Impurities in 2D Materials. <i>Microscopy and Microanalysis</i> , 2016 , 22, 862-863	0.5	
94	Atomic-scale observation of structural and electronic orders in the layered compound β -RuCl ₃ . <i>Nature Communications</i> , 2016 , 7, 13774	17.4	50

93	An instrument for measuring scintillators efficiently based on silicon photomultipliers. <i>Review of Scientific Instruments</i> , 2016 , 87, 113308	1.7	
92	Strain-Induced Electronic Structure Changes in Stacked van der Waals Heterostructures. <i>Nano Letters</i> , 2016 , 16, 3314-20	11.5	101
91	Lateral Epitaxy of Atomically Sharp WSe ₂ /WS ₂ Heterojunctions on Silicon Dioxide Substrates. <i>Chemistry of Materials</i> , 2016 , 28, 7194-7197	9.6	50
90	Chemical Vapor Deposition of High-Quality Large-Sized MoS Crystals on Silicon Dioxide Substrates. <i>Advanced Science</i> , 2016 , 3, 1500033	13.6	93
89	Controlled formation of mixed nanoscale domains of high capacity Fe ₂ O ₃ -FeF ₃ conversion compounds by direct fluorination. <i>ACS Nano</i> , 2015 , 9, 2530-9	16.7	41
88	Two-Step Growth of Two-Dimensional WSe ₂ /MoSe ₂ Heterostructures. <i>Nano Letters</i> , 2015 , 15, 6135-41	11.5	401
87	Vacancy-induced formation and growth of inversion domains in transition-metal dichalcogenide monolayer. <i>ACS Nano</i> , 2015 , 9, 5189-97	16.7	137
86	Watching Atoms Work: Nanocluster Structure and Dynamics. <i>ACS Nano</i> , 2015 , 9, 9437-40	16.7	9
85	Recent Advances in Two-Dimensional Materials beyond Graphene. <i>ACS Nano</i> , 2015 , 9, 11509-39	16.7	1581
84	3D Band Diagram and Photoexcitation of 2D-3D Semiconductor Heterojunctions. <i>Nano Letters</i> , 2015 , 15, 5919-25	11.5	26
83	Stacking-Dependent Interlayer Coupling in Trilayer MoS ₂ with Broken Inversion Symmetry. <i>Nano Letters</i> , 2015 , 15, 8155-61	11.5	106
82	Spectroscopic Signatures of AA and AB Stacking of Chemical Vapor Deposited Bilayer MoS ₂ . <i>ACS Nano</i> , 2015 , 9, 12246-54	16.7	90
81	Band engineering for novel two-dimensional atomic layers. <i>Small</i> , 2015 , 11, 1868-84	11	79
80	Interfaces in Two-Dimensional Heterostructures of Transition Metal Dichalcogenides. <i>Microscopy and Microanalysis</i> , 2015 , 21, 105-106	0.5	
79	Functionalization of Graphene. <i>Microscopy and Microanalysis</i> , 2015 , 21, 737-738	0.5	1
78	Low-loss electron energy loss spectroscopy: An atomic-resolution complement to optical spectroscopies and application to graphene. <i>Physical Review B</i> , 2015 , 92,	3.3	24
77	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	24	85
76	Chemical Vapor Deposition of Monolayer Rhenium Disulfide (ReS ₂). <i>Advanced Materials</i> , 2015 , 27, 4640-84		177

75	Blending Cr ₂ O ₃ into a NiO/Ni Electrocatalyst for Sustained Water Splitting. <i>Angewandte Chemie</i> , 2015 , 127, 12157-12161	3.6	43
74	Controlled Synthesis of Organic/Inorganic van der Waals Solid for Tunable Light-Matter Interactions. <i>Advanced Materials</i> , 2015 , 27, 7800-8	24	94
73	Blending Cr ₂ O ₃ into a NiO-Ni electrocatalyst for sustained water splitting. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 11989-93	16.4	132
72	Defect Dynamics in 2D Transition Metal Dichalcogenide Monolayers. <i>Microscopy and Microanalysis</i> , 2015 , 21, 433-434	0.5	1
71	Study on the fabrication and performance of Mn _{1.56} Co _{0.96} Ni _{0.48} O ₄ film optically immersed infrared detector. <i>Materials Research Innovations</i> , 2015 , 19, S7-S10	1.9	6
70	The observation of square ice in graphene questioned. <i>Nature</i> , 2015 , 528, E1-2	50.4	80
69	Insights into the physical chemistry of materials from advances in HAADF-STEM. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 3982-4006	3.6	47
68	Boron- and Nitrogen-Substituted Graphene Nanoribbons as Efficient Catalysts for Oxygen Reduction Reaction. <i>Chemistry of Materials</i> , 2015 , 27, 1181-1186	9.6	202
67	Flexible metallic nanowires with self-adaptive contacts to semiconducting transition-metal dichalcogenide monolayers. <i>Nature Nanotechnology</i> , 2014 , 9, 436-42	28.7	185
66	Electronic and Quantum Transport Properties of Atomically Identified Si Point Defects in Graphene. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 1711-8	6.4	12
65	Large-area synthesis of monolayer and few-layer MoSe ₂ films on SiO ₂ substrates. <i>Nano Letters</i> , 2014 , 14, 2419-25	11.5	312
64	Band gap engineering and layer-by-layer mapping of selenium-doped molybdenum disulfide. <i>Nano Letters</i> , 2014 , 14, 442-9	11.5	378
63	Direct chemical conversion of graphene to boron- and nitrogen- and carbon-containing atomic layers. <i>Nature Communications</i> , 2014 , 5, 3193	17.4	169
62	Interlaced crystals having a perfect Bravais lattice and complex chemical order revealed by real-space crystallography. <i>Nature Communications</i> , 2014 , 5, 5431	17.4	22
61	Orbital occupancy and charge doping in iron-based superconductors. <i>Advanced Materials</i> , 2014 , 26, 6193-4	11.5	12
60	Strain and structure heterogeneity in MoS ₂ atomic layers grown by chemical vapour deposition. <i>Nature Communications</i> , 2014 , 5, 5246	17.4	352
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