

Chuan-Hong Jin

List of Publications by Citations

Source: <https://exaly.com/author-pdf/1842635/chuan-hong-jin-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

189
papers

18,703
citations

62
h-index

136
g-index

199
ext. papers

21,108
ext. citations

10.3
avg, IF

6.59
L-index

#	Paper	IF	Citations
189	Large scale growth and characterization of atomic hexagonal boron nitride layers. <i>Nano Letters</i> , 2010 , 10, 3209-15	11.5	1961
188	Atomic layers of hybridized boron nitride and graphene domains. <i>Nature Materials</i> , 2010 , 9, 430-5	27	1764
187	Perovskite light-emitting diodes based on solution-processed self-organized multiple quantum wells. <i>Nature Photonics</i> , 2016 , 10, 699-704	33.9	1206
186	Fabrication of a freestanding boron nitride single layer and its defect assignments. <i>Physical Review Letters</i> , 2009 , 102, 195505	7.4	857
185	Exploring atomic defects in molybdenum disulphide monolayers. <i>Nature Communications</i> , 2015 , 6, 6293	17.4	851
184	Graphene annealing: how clean can it be?. <i>Nano Letters</i> , 2012 , 12, 414-9	11.5	675
183	Plasma-assisted fabrication of monolayer phosphorene and its Raman characterization. <i>Nano Research</i> , 2014 , 7, 853-859	10	535
182	Deriving carbon atomic chains from graphene. <i>Physical Review Letters</i> , 2009 , 102, 205501	7.4	510
181	Towards polyvalent ion batteries: A zinc-ion battery based on NASICON structured Na ₃ V ₂ (PO ₄) ₃ . <i>Nano Energy</i> , 2016 , 25, 211-217	17.1	436
180	Highly active and durable methanol oxidation electrocatalyst based on the synergy of platinum-nickel hydroxide-graphene. <i>Nature Communications</i> , 2015 , 6, 10035	17.4	351
179	Growth of large-area 2D MoS ₂ (Te) Se _x semiconductor alloys. <i>Advanced Materials</i> , 2014 , 26, 2648-53, 2613	24	289
178	Interlayer couplings, Moiré patterns, and 2D electronic superlattices in MoS ₂ /WSe ₂ hetero-bilayers. <i>Science Advances</i> , 2017 , 3, e1601459	14.3	277
177	Ultrasmall and phase-pure WC nanoparticles for efficient electrocatalytic and photoelectrochemical hydrogen evolution. <i>Nature Communications</i> , 2016 , 7, 13216	17.4	265
176	Quantitative Analysis of Current-Voltage Characteristics of Semiconducting Nanowires: Decoupling of Contact Effects. <i>Advanced Functional Materials</i> , 2007 , 17, 2478-2489	15.6	256
175	Epitaxy and photoresponse of two-dimensional GaSe crystals on flexible transparent mica sheets. <i>ACS Nano</i> , 2014 , 8, 1485-90	16.7	245
174	Clean transfer of graphene for isolation and suspension. <i>ACS Nano</i> , 2011 , 5, 2362-8	16.7	241
173	Sulfur and nitrogen co-doped, few-layered graphene oxide as a highly efficient electrocatalyst for the oxygen-reduction reaction. <i>ChemSusChem</i> , 2013 , 6, 493-9	8.3	223

172	Ultrastiff and Strong Graphene Fibers via Full-Scale Synergetic Defect Engineering. <i>Advanced Materials</i> , 2016 , 28, 6449-56	24	217
171	Top-down fabrication of sub-nanometre semiconducting nanoribbons derived from molybdenum disulfide sheets. <i>Nature Communications</i> , 2013 , 4, 1776	17.4	185
170	Plumbing carbon nanotubes. <i>Nature Nanotechnology</i> , 2008 , 3, 17-21	28.7	185
169	High Mobility 2D Palladium Diselenide Field-Effect Transistors with Tunable Ambipolar Characteristics. <i>Advanced Materials</i> , 2017 , 29, 1602969	24	180
168	Direct growth of large-area graphene and boron nitride heterostructures by a co-segregation method. <i>Nature Communications</i> , 2015 , 6, 6519	17.4	173
167	Controlled Synthesis of High-Quality Monolayered In_2Se_3 via Physical Vapor Deposition. <i>Nano Letters</i> , 2015 , 15, 6400-5	11.5	169
166	Epitaxial Growth of Twinned Au-Pt Core-Shell Star-Shaped Decahedra as Highly Durable Electrocatalysts. <i>Nano Letters</i> , 2015 , 15, 7808-15	11.5	168
165	Two-dimensional molybdenum tungsten diselenide alloys: photoluminescence, Raman scattering, and electrical transport. <i>ACS Nano</i> , 2014 , 8, 7130-7	16.7	166
164	Controlled growth of atomically thin In_2Se_3 flakes by van der Waals epitaxy. <i>Journal of the American Chemical Society</i> , 2013 , 135, 13274-7	16.4	156
163	Stable Metallic 1T- WS_2 Nanoribbons Intercalated with Ammonia Ions: The Correlation between Structure and Electrical/Optical Properties. <i>Advanced Materials</i> , 2015 , 27, 4837-44	24	151
162	Graphene nanoribbons from unzipped carbon nanotubes: atomic structures, Raman spectroscopy, and electrical properties. <i>Journal of the American Chemical Society</i> , 2011 , 133, 10394-7	16.4	149
161	Strong Local Coordination Structure Effects on Subnanometer PtOx Clusters over CeO2 Nanowires Probed by Low-Temperature CO Oxidation. <i>ACS Catalysis</i> , 2015 , 5, 5164-5173	13.1	148
160	Atomic Defects in Two-Dimensional Materials: From Single-Atom Spectroscopy to Functionalities in Opto-/Electronics, Nanomagnetism, and Catalysis. <i>Advanced Materials</i> , 2017 , 29, 1606434	24	146
159	Metal-Free Growth of Nanographene on Silicon Oxides for Transparent Conducting Applications. <i>Advanced Functional Materials</i> , 2012 , 22, 2123-2128	15.6	142
158	General incorporation of diverse components inside metal-organic framework thin films at room temperature. <i>Nature Communications</i> , 2014 , 5, 5532	17.4	139
157	Aligned, high-density semiconducting carbon nanotube arrays for high-performance electronics. <i>Science</i> , 2020 , 368, 850-856	33.3	136
156	Chemical vapor deposition growth of large-scale hexagonal boron nitride with controllable orientation. <i>Nano Research</i> , 2015 , 8, 3164-3176	10	131
155	Reversible conversion-alloying of Sb_2O_3 as a high-capacity, high-rate, and durable anode for sodium ion batteries. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 19449-55	9.5	129

154	Kinetically controlled synthesis of Pt-Cu alloy concave nanocubes with high-index facets for methanol electro-oxidation. <i>Chemical Communications</i> , 2014 , 50, 560-2	5.8	126
153	Fast Photoresponse from 1T Tin Diselenide Atomic Layers. <i>Advanced Functional Materials</i> , 2016 , 26, 137-145	14.5	125
152	Engineering crystalline structures of two-dimensional MoS ₂ sheets for high-performance organic solar cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 7727-7733	13	124
151	High-quality ultralong Bi ₂ S ₃ nanowires: structure, growth, and properties. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 18772-6	3.4	122
150	Tailoring the thermal and electrical transport properties of graphene films by grain size engineering. <i>Nature Communications</i> , 2017 , 8, 14486	17.4	119
149	TiS ₂ nanoplates: A high-rate and stable electrode material for sodium ion batteries. <i>Nano Energy</i> , 2016 , 20, 168-175	17.1	114
148	Comparative study on the localized surface plasmon resonance of boron- and phosphorus-doped silicon nanocrystals. <i>ACS Nano</i> , 2015 , 9, 378-86	16.7	110
147	In situ study of oxidative etching of palladium nanocrystals by liquid cell electron microscopy. <i>Nano Letters</i> , 2014 , 14, 3761-5	11.5	100
146	All Chemical Vapor Deposition Synthesis and Intrinsic Bandgap Observation of MoS ₂ /Graphene Heterostructures. <i>Advanced Materials</i> , 2015 , 27, 7086-92	24	100
145	Controlled Synthesis of Organic/Inorganic van der Waals Solid for Tunable Light-Matter Interactions. <i>Advanced Materials</i> , 2015 , 27, 7800-8	24	94
144	Nanoporous core-shell Cu@Cu ₂ O nanocomposites with superior photocatalytic properties towards the degradation of methyl orange. <i>RSC Advances</i> , 2012 , 2, 12636	3.7	92
143	Preparation of Single-Layer MoS ₂ (1-x)Se ₂ (1-x) and Mo(x)W(1-x)S ₂ Nanosheets with High-Concentration Metallic 1T Phase. <i>Small</i> , 2016 , 12, 1866-74	11	91
142	Robust Stacking-Independent Ultrafast Charge Transfer in MoS/WS Bilayers. <i>ACS Nano</i> , 2017 , 11, 12020-12026	10.26	89
141	Periodic Organic-Inorganic Halide Perovskite Microplatelet Arrays on Silicon Substrates for Room-Temperature Lasing. <i>Advanced Science</i> , 2016 , 3, 1600137	13.6	89
140	Capture the growth kinetics of CVD growth of two-dimensional MoS ₂ . <i>Npj 2D Materials and Applications</i> , 2017 , 1,	8.8	82
139	Strong interfacial coupling of MoS ₂ /g-C ₃ N ₄ van de Waals solids for highly active water reduction. <i>Nano Energy</i> , 2016 , 27, 44-50	17.1	81
138	Epitaxial Growth of Multimetallic Pd@PtM (M = Ni, Rh, Ru) Core-Shell Nanoplates Realized by in Situ-Produced CO from Interfacial Catalytic Reactions. <i>Nano Letters</i> , 2016 , 16, 7999-8004	11.5	80
137	Confinement of Perovskite-QDs within a Single MOF Crystal for Significantly Enhanced Multiphoton Excited Luminescence. <i>Advanced Materials</i> , 2019 , 31, e1806897	24	79

136	Van der Waals Epitaxial Growth of Atomic Layered HfS Crystals for Ultrasensitive Near-Infrared Phototransistors. <i>Advanced Materials</i> , 2017 , 29, 1700439	24	73
135	Vacancy migrations in carbon nanotubes. <i>Nano Letters</i> , 2008 , 8, 1127-30	11.5	73
134	Amorphous oxygen-rich molybdenum oxysulfide Decorated p-type silicon microwire Arrays for efficient photoelectrochemical water reduction. <i>Nano Energy</i> , 2015 , 16, 130-142	17.1	70
133	Ultrafine Nanoparticle-Supported Ru Nanoclusters with Ultrahigh Catalytic Activity. <i>Small</i> , 2015 , 11, 4385-493	11.93	67
132	Direct Chemical Vapor Deposition Growth and Band-Gap Characterization of MoS ₂ /h-BN van der Waals Heterostructures on Au Foils. <i>ACS Nano</i> , 2017 , 11, 4328-4336	16.7	66
131	Water-Assisted Preparation of High-Purity Semiconducting (14,4) Carbon Nanotubes. <i>ACS Nano</i> , 2017 , 11, 186-193	16.7	66
130	Two-Dimensional Layered Heterostructures Synthesized from Core-Shell Nanowires. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 8957-60	16.4	64
129	Spatially-confined lithiation/delithiation in highly dense nanocomposite anodes towards advanced lithium-ion batteries. <i>Energy and Environmental Science</i> , 2015 , 8, 1471-1479	35.4	62
128	Colloidal Indium-Doped Zinc Oxide Nanocrystals with Tunable Work Function: Rational Synthesis and Optoelectronic Applications. <i>Chemistry of Materials</i> , 2014 , 26, 5169-5178	9.6	62
127	Robust Phase Control through Hetero-Seeded Epitaxial Growth for Face-Centered Cubic Pt@Ru Nanotetrahedrons with Superior Hydrogen Electro-Oxidation Activity. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 17697-17706	3.8	60
126	In situ fabrication and graphitization of amorphous carbon nanowires and their electrical properties. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 5423-8	3.4	58
125	Anisotropic Spectroscopy and Electrical Properties of 2D ReS ₂ Se Alloys with Distorted 1T Structure. <i>Small</i> , 2017 , 13, 1603788	11	57
124	Boron- and Phosphorus-Hyperdoped Silicon Nanocrystals. <i>Particle and Particle Systems Characterization</i> , 2015 , 32, 213-221	3.1	57
123	In-situ studies of electron field emission of single carbon nanotubes inside the TEM. <i>Carbon</i> , 2005 , 43, 1026-1031	10.4	57
122	Synthesis of in-plane and stacked graphene/hexagonal boron nitride heterostructures by combining with ion beam sputtering deposition and chemical vapor deposition. <i>Nanoscale</i> , 2015 , 7, 16046-453	7.7	56
121	Ultrathin Two-Dimensional Pd-Based Nanorings as Catalysts for Hydrogenation with High Activity and Stability. <i>Small</i> , 2015 , 11, 4745-52	11	56
120	One-Step Synthesis of Metal/Semiconductor Heterostructure NbS ₂ /MoS ₂ . <i>Chemistry of Materials</i> , 2018 , 30, 4001-4007	9.6	54
119	Fabrication of MoSe nanoribbons via an unusual morphological phase transition. <i>Nature Communications</i> , 2017 , 8, 15135	17.4	53

118	Morphology Engineering in Monolayer MoS ₂ -WS ₂ Lateral Heterostructures. <i>Advanced Functional Materials</i> , 2018 , 28, 1801568	15.6	52
117	Controlled Growth and Reliable Thickness-Dependent Properties of Organic/Inorganic Perovskite Platelet Crystal. <i>Advanced Functional Materials</i> , 2016 , 26, 5263-5270	15.6	52
116	Single-crystalline dendritic bimetallic and multimetallic nanocubes. <i>Chemical Science</i> , 2015 , 6, 7122-7129	9.4	51
115	In Situ Liquid Cell TEM Reveals Bridge-Induced Contact and Fusion of Au Nanocrystals in Aqueous Solution. <i>Nano Letters</i> , 2018 , 18, 6551-6556	11.5	51
114	Phase Identification and Strong Second Harmonic Generation in Pure InSe and Its Alloys. <i>Nano Letters</i> , 2019 , 19, 2634-2640	11.5	50
113	Large-Scale Synthesis of Rings of Bundled Single-Walled Carbon Nanotubes by Floating Chemical Vapor Deposition. <i>Advanced Materials</i> , 2006 , 18, 1817-1821	24	48
112	Facile synthesis of Rh-Pd alloy nanodendrites as highly active and durable electrocatalysts for oxygen reduction reaction. <i>Nanoscale</i> , 2014 , 6, 7012-8	7.7	47
111	An In situ TEM study of the surface oxidation of palladium nanocrystals assisted by electron irradiation. <i>Nanoscale</i> , 2017 , 9, 6327-6333	7.7	45
110	Aligned Growth of Hexagonal Boron Nitride Monolayer on Germanium. <i>Small</i> , 2015 , 11, 5375-80	11	45
109	Growth of Polar Hexagonal Boron Nitride Monolayer on Nonpolar Copper with Unique Orientation. <i>Small</i> , 2016 , 12, 3645-50	11	44
108	Solvent-Based Soft-Patterning of Graphene Lateral Heterostructures for Broadband High-Speed Metal/Semiconductor/Metal Photodetectors. <i>Advanced Materials Technologies</i> , 2017 , 2, 1600241	6.8	43
107	Highly active nanoporous Pt-based alloy as anode and cathode catalyst for direct methanol fuel cells. <i>Journal of Power Sources</i> , 2014 , 267, 212-218	8.9	42
106	Atomic resolution liquid-cell transmission electron microscopy investigations of the dynamics of nanoparticles in ultrathin liquids. <i>Chemical Communications</i> , 2013 , 49, 10944-6	5.8	40
105	Probing the anisotropic behaviors of black phosphorus by transmission electron microscopy, angular-dependent Raman spectra, and electronic transport measurements. <i>Applied Physics Letters</i> , 2015 , 107, 021906	3.4	39
104	Low-Temperature Growth of Two-Dimensional Layered Chalcogenide Crystals on Liquid. <i>Nano Letters</i> , 2016 , 16, 2103-7	11.5	39
103	In situ study of the growth of two-dimensional palladium dendritic nanostructures using liquid-cell electron microscopy. <i>Chemical Communications</i> , 2014 , 50, 9447-50	5.8	38
102	NiS ₂ /MoS ₂ hetero-nanosheet array electrocatalysts for efficient overall water splitting. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 2056-2066	5.8	37
101	Self-supporting nanoporous gold-palladium overlayer bifunctional catalysts toward oxygen reduction and evolution reactions. <i>Nano Research</i> , 2016 , 9, 3781-3794	10	36

100	Black Phosphorus Quantum Dots Induced High-Quality Perovskite Film for Efficient and Thermally Stable Planar Perovskite Solar Cells. <i>Solar Rrl</i> , 2019 , 3, 1900132	7.1	35
99	Inversion Domain Boundary Induced Stacking and Bandstructure Diversity in Bilayer MoSe. <i>Nano Letters</i> , 2017 , 17, 6653-6660	11.5	34
98	Shaped Pt-Ni nanocrystals with an ultrathin Pt-enriched shell derived from one-pot hydrothermal synthesis as active electrocatalysts for oxygen reduction. <i>Nano Research</i> , 2015 , 8, 1480-1496	10	34
97	NiS-MoS ₂ Hetero-nanosheet Arrays on Carbon Cloth for High-Performance Flexible Hybrid Energy Storage Devices. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 11672-11681	8.3	33
96	In situ electrical measurements of polytypic silver nanowires. <i>Nanotechnology</i> , 2008 , 19, 085711	3.4	33
95	Fabrication of sub-nanometer pores on graphene membrane for ion selective transport. <i>Nanoscale</i> , 2018 , 10, 5350-5357	7.7	31
94	How does a carbon nanotube grow? An in situ investigation on the cap evolution. <i>ACS Nano</i> , 2008 , 2, 1275-9	16.7	29
93	Facile solvothermal synthesis of ultrathin LiFe _{0.5} Mn _{1.5} PO ₄ nanoplates as advanced cathodes with long cycle life and superior rate capability. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 19368-19375	13	28
92	Direct Imaging of Kinetic Pathways of Atomic Diffusion in Monolayer Molybdenum Disulfide. <i>Nano Letters</i> , 2017 , 17, 3383-3390	11.5	27
91	Kinetically-controlled growth of cubic and octahedral Rh-Pd alloy oxygen reduction electrocatalysts with high activity and durability. <i>Nanoscale</i> , 2015 , 7, 301-7	7.7	27
90	Atomic process of oxidative etching in monolayer molybdenum disulfide. <i>Science Bulletin</i> , 2017 , 62, 846-851	8.5	26
89	Revealing the Cluster-Cloud and Its Role in Nanocrystallization. <i>Advanced Materials</i> , 2019 , 31, e1808225	24	26
88	Layer-dependent anisotropic electronic structure of freestanding quasi-two-dimensional MoS ₂ . <i>Physical Review B</i> , 2016 , 93,	3.3	26
87	Formation of Subnanometer Zr-WO _x Clusters within Mesoporous W ₁₈ O ₄₉ Mixed Oxides as Strong Solid Acid Catalysts for Friedel-Crafts Alkylation. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 6283-6290	3.8	26
86	Probing the oxidative etching induced dissolution of palladium nanocrystals in solution by liquid cell transmission electron microscopy. <i>Micron</i> , 2017 , 97, 22-28	2.3	25
85	Black phosphorus nanoflakes as morphology modifier for efficient fullerene-free organic solar cells with high fill-factor and better morphological stability. <i>Nano Research</i> , 2019 , 12, 777-783	10	25
84	Phase Separations in LiFe _{0.5} Mn _{1.5} PO ₄ : A Random Stack Model for Efficient Cathode Materials. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 796-803	3.8	25
83	Pt ₂ Co alloy with high density of surface Pt defects for efficient catalysis of breaking C-C bond in ethanol. <i>Electrochimica Acta</i> , 2014 , 125, 29-37	6.7	24

82	Metal atom catalyzed enlargement of fullerenes. <i>Physical Review Letters</i> , 2008 , 101, 176102	7.4	24
81	Boosting the performance of the Fe/N/C catalyst for the oxygen reduction reaction by introducing single-walled carbon nanohorns as branches on carbon fibers. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 23182-23190	13	23
80	Atomic Scale Stability of Tungsten-Cobalt Intermetallic Nanocrystals in Reactive Environment at High Temperature. <i>Journal of the American Chemical Society</i> , 2019 , 141, 5871-5879	16.4	20
79	In-situ fabrication of MoS ₂ -nanowire-terminated edges in monolayer molybdenum disulfide. <i>Nano Research</i> , 2018 , 11, 5849-5857	10	20
78	Deriving phosphorus atomic chains from few-layer black phosphorus. <i>Nano Research</i> , 2017 , 10, 2519-2526	11.5	19
77	An improved Wiener deconvolution filter for high-resolution electron microscopy images. <i>Micron</i> , 2013 , 50, 1-6	2.3	19
76	Performance change of few layer black phosphorus transistors in ambient. <i>AIP Advances</i> , 2015 , 5, 107112	11.5	19
75	Embedding Ultrafine and High-Content Pt Nanoparticles at Ceria Surface for Enhanced Thermal Stability. <i>Advanced Science</i> , 2017 , 4, 1700056	13.6	18
74	High mobility top gated field-effect transistors and integrated circuits based on chemical vapor deposition-derived monolayer MoS ₂ . <i>Materials Express</i> , 2016 , 6, 198-204	1.3	18
73	Quantum Confined Tomonaga-Luttinger Liquid in MoSe Nanowires Converted from an Epitaxial MoSe Monolayer. <i>Nano Letters</i> , 2020 , 20, 2094-2099	11.5	17
72	Characterization of graphene grown on bulk and thin film nickel. <i>Langmuir</i> , 2011 , 27, 13748-53	4	17
71	Highly Pure and Luminescent Graphene Quantum Dots on Silicon Directly Grown by Chemical Vapor Deposition. <i>Particle and Particle Systems Characterization</i> , 2016 , 33, 8-14	3.1	16
70	Atomistic dynamics of sulfur-deficient high-symmetry grain boundaries in molybdenum disulfide. <i>Nanoscale</i> , 2017 , 9, 10312-10320	7.7	15
69	Switching electron current in a semiconductor nanowire via controlling the carrier injection from the electrode. <i>Applied Physics Letters</i> , 2006 , 89, 213108	3.4	15
68	Space-confined and substrate-directed synthesis of transition-metal dichalcogenide nanostructures with tunable dimensionality. <i>Science Bulletin</i> , 2020 , 65, 1013-1021	10.6	14
67	Structural Phase Transition of Multilayer VSe ₂ . <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 25143-25149	11.9	14
66	Direct evidence for lip-lip interactions in multi-walled carbon nanotubes. <i>Nano Research</i> , 2008 , 1, 434-439	11.0	14
65	Efficiently producing single-walled carbon nanotube rings and investigation of their field emission properties. <i>Nanotechnology</i> , 2006 , 17, 2355-2361	3.4	14

64	Grain boundaries in chemical-vapor-deposited atomically thin hexagonal boron nitride. <i>Physical Review Materials</i> , 2019 , 3,	3.2	14
63	Unveiling Growth Pathways of Multiply Twinned Gold Nanoparticles by Liquid Cell Transmission Electron Microscopy. <i>ACS Nano</i> , 2020 , 14, 9594-9604	16.7	14
62	Deriving MoS nanoribbons from their flakes by chemical vapor deposition. <i>Nanotechnology</i> , 2019 , 30, 255602	3.4	14
61	Ion-templated fabrication of Pt-Cu alloy octahedra with controlled compositions for electrochemical detection of H ₂ O ₂ . <i>Journal of Alloys and Compounds</i> , 2019 , 788, 1334-1340	5.7	13
60	Hole doping in epitaxial MoSe ₂ monolayer by nitrogen plasma treatment. <i>2D Materials</i> , 2018 , 5, 041005	5.9	12
59	In Situ Formation and Structure Tailoring of Carbon Onions by High-Resolution Transmission Electron Microscopy. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 5043-5046	3.8	11
58	Preparation of Twisted Bilayer Graphene via the Wetting Transfer Method. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 40958-40967	9.5	11
57	Revealing the microscopic CVD growth mechanism of MoSe ₂ and the role of hydrogen gas during the growth procedure. <i>Nanotechnology</i> , 2018 , 29, 314001	3.4	11
56	Understanding Anisotropic Growth of Au Penta-Twinned Nanorods by Liquid Cell Transmission Electron Microscopy. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 1443-1449	6.4	10
55	Hydrogen-assisted post-growth substitution of tellurium into molybdenum disulfide monolayers with tunable compositions. <i>Nanotechnology</i> , 2018 , 29, 145603	3.4	10
54	Atomic-Precision Fabrication of Quasi-Full-Space Grain Boundaries in Two-Dimensional Hexagonal Boron Nitride. <i>Nano Letters</i> , 2019 , 19, 8581-8589	11.5	10
53	Enhancing the production of hydrogen peroxide from electrocatalytic oxygen reduction reaction by tailoring the electronic states of single-walled carbon nanotubes: a synergistic effect from interior filling and exterior oxidation. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 1951-1956	5.8	9
52	Deriving 2D MX (M = Mo, W, X = S, Se) by periodic assembly of chalcogen vacancy lines in their MX counterparts. <i>Nanoscale</i> , 2020 , 12, 8285-8293	7.7	9
51	Niobium doping induced mirror twin boundaries in MBE grown WSe ₂ monolayers. <i>Nano Research</i> , 2020 , 13, 1889-1896	10	9
50	Magnetism in molybdenum disulfide monolayer with sulfur substituted by 3d transition metals. <i>Journal of Applied Physics</i> , 2016 , 120, 144305	2.5	9
49	Experimental study of protein translocation through MoS ₂ nanopores. <i>Applied Physics Letters</i> , 2019 , 115, 223702	3.4	9
48	Oxidation behavior of cobalt nanoparticles studied by in situ environmental transmission electron microscopy. <i>Science Bulletin</i> , 2017 , 62, 775-778	10.6	8
47	Synthesis and Characterization of Ultrathin Tin-Doped Zinc Oxide Nanowires. <i>European Journal of Inorganic Chemistry</i> , 2012 , 2012, 4268-4272	2.3	8

46	A Shallow Acceptor of Phosphorous Doped in MoSe ₂ Monolayer. <i>Advanced Electronic Materials</i> , 2020 , 6, 1900830	6.4	8
45	Design Synthesis of ITE Zeolite Using Nickel-Amine Complex as an Efficient Structure-Directing Agent. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 33214-33220	9.5	7
44	Effective passivation of black phosphorus transistor against ambient degradation by an ultra-thin tin oxide film. <i>Science Bulletin</i> , 2019 , 64, 570-574	10.6	6
43	Probing the degradation of carbon nanotubes in aqueous solution by liquid cell transmission electron microscopy. <i>Carbon</i> , 2019 , 148, 481-486	10.4	6
42	Revealing the elemental-specific growth dynamics of PtAu multipods by scanning transmission electron microscopy and chemical mapping. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 21284-21289	13	6
41	Semiconductors: Growth of Large-Area 2D MoS ₂ (1-x)Se _{2x} Semiconductor Alloys (Adv. Mater. 17/2014). <i>Advanced Materials</i> , 2014 , 26, 2763-2763	24	6
40	Quantitative investigation of the formation and growth of palladium fractal nanocrystals by liquid-cell transmission electron microscopy. <i>Chemical Communications</i> , 2019 , 55, 8186-8189	5.8	5
39	Facile synthesis of hierarchical LiFePO ₄ and its phase transformation to electrochemically active LiFePO ₄ for Li-ion batteries. <i>CrystEngComm</i> , 2016 , 18, 7707-7714	3.3	5
38	Multifarious Interfaces, Band Alignments, and Formation Asymmetry of WSe-MoSe Heterojunction Grown by Molecular-Beam Epitaxy. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 43766-43773	9.5	5
37	Two-Dimensional Layered Heterostructures Synthesized from CoreShell Nanowires. <i>Angewandte Chemie</i> , 2015 , 127, 9085-9088	3.6	5
36	In situ transmission electron microscopy study of the formation and migration of vacancy defects in atomically thin black phosphorus. <i>2D Materials</i> , 2021 , 8, 025004	5.9	5
35	Grain Boundary Motion in Two-Dimensional Hexagonal Boron Nitride. <i>ACS Nano</i> , 2020 , 14, 13512-13523	16.7	5
34	Monolithic Integration of Vertical Thin-Film Transistors in Nanopores for Charge Sensing of Single Biomolecules. <i>ACS Nano</i> , 2021 , 15, 9882-9889	16.7	5
33	Direct identification of monolayer rhenium diselenide by an individual diffraction pattern. <i>Nano Research</i> , 2017 , 10, 2535-2544	10	4
32	Reversible H-T δ phase transition in monolayer molybdenum disulfide via electron beam assisted solid state lithiation/delithiation. <i>Applied Physics Letters</i> , 2020 , 116, 033103	3.4	4
31	TEM study of edge reconstruction and evolution in monolayer black phosphorus. <i>Nanoscale</i> , 2021 , 13, 4133-4139	7.7	4
30	Regulation of acidic properties of WO ₃ -ZrO ₂ for Friedel-Crafts reaction with surfactant. <i>Catalysis Communications</i> , 2019 , 123, 54-58	3.2	3
29	Effects of non-rotationally symmetric aberrations on the quantitative measurement of lattice positions in a graphene monolayer using high-resolution transmission electron microscopy. <i>Microscopy (Oxford, England)</i> , 2015 , 64, 311-8	1.3	3

28	Single-layer Mo ₅ Te ₈ [A new polymorph of layered transition-metal chalcogenide. <i>2D Materials</i> , 2021 , 8, 015006	5.9	3
27	Probing the Controlled Oxidative Etching of Palladium Nanorods by Liquid Cell Transmission Electron Microscopy. <i>Wuli Huaxue Xuebao/Acta Physico - Chimica Sinica</i> , 2019 , 35, 15-21	3.8	3
26	The formation and shape transformation mechanism of a triangular Au nanoplate revealed by liquid-cell TEM. <i>Nanoscale</i> , 2020 , 12, 19592-19596	7.7	3
25	Rapid-Heating-Triggered in Situ Solid-State Transformation of Amorphous TiO ₂ Nanotubes into Well-Defined Anatase Nanocrystals. <i>Crystal Growth and Design</i> , 2019 , 19, 1086-1094	3.5	3
24	Microdefect Characteristics in Cast-Mono Silicon Wafers Induced by Slurry Sawing. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2021 , 218, 2000258	1.6	3
23	Photodetectors: Solvent-Based Soft-Patterning of Graphene Lateral Heterostructures for Broadband High-Speed Metal Semiconductor Metal Photodetectors (Adv. Mater. Technol. 2/2017). <i>Advanced Materials Technologies</i> , 2017 , 2,	6.8	2
22	Interactions of sub-five-nanometer diameter colloidal palladium nanoparticles in solution investigated liquid cell transmission electron microscopy.. <i>RSC Advances</i> , 2020 , 10, 34781-34787	3.7	2
21	Growth of PVRdoped molybdenum disulfide on graphene transferred molybdenum substrate. <i>Scientific Reports</i> , 2018 , 8, 7396	4.9	2
20	Mass transport induced structural evolution and healing of sulfur vacancy lines and Mo chain in monolayer MoS ₂ . <i>Rare Metals</i> , 1	5.5	2
19	Synergy between Structure Characteristics and the Solution Chemistry in a Near/Non-Equilibrium Oxidative Etching of Penta-Twinned Palladium Nanorods. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 4010-4020	3.8	2
18	Selective Synthesis of Carbon Nanorings via Asymmetric Intramolecular Phase-Transition-Induced Tip-to-Tip Assembly. <i>ACS Central Science</i> , 2021 , 7, 1493-1499	16.8	2
17	Interlayer Coupling Dependent Discrete H ₂ O Phase Transition in Lithium Intercalated Bilayer Molybdenum Disulfide. <i>ACS Nano</i> , 2021 , 15, 15039-15046	16.7	2
16	Spherical to truncated octahedral shape transformation of palladium nanocrystals driven by e-beam in aqueous solution. <i>Nano Research</i> , 2019 , 12, 2623-2627	10	1
15	Study of intrinsic defect states of FeSe with scanning tunneling microscopy. <i>Physical Review B</i> , 2019 , 100,	3.3	1
14	Inverse problem of the multislice method in retrieving projected complex potentials from the exit-wave function. <i>Micron</i> , 2014 , 58, 47-54	2.3	1
13	Post-synthesis Tellurium Doping Induced Mirror Twin Boundaries in Monolayer Molybdenum Disulfide. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 4758	2.6	1
12	A microscopic TEM study of the defect layers in cast-mono crystalline silicon wafers induced by diamond-wire sawing. <i>AIP Advances</i> , 2021 , 11, 045103	1.5	1
11	Revealing Au as Elementary Clusters During the Early Formation of Au Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 5938-5943	6.4	1

10	Graphene Quantum Dots: Highly Pure and Luminescent Graphene Quantum Dots on Silicon Directly Grown by Chemical Vapor Deposition (Part. Part. Syst. Charact. 1/2016). <i>Particle and Particle Systems Characterization</i> , 2016 , 33, 2-2	3.1	1
9	Modulation of electronic state in copper-intercalated 1T-TaS ₂ . <i>Nano Research</i> , 1	10	0
8	Confinement effect induced conformation change of one-dimensional phosphorus chains filled in carbon nanotubes. <i>Carbon</i> , 2022 , 189, 467-473	10.4	0
7	Self-feeding formation of atomically thin molybdenum nanoflakes on MoS ₂ monolayer. <i>2D Materials</i> , 2021 , 8, 035054	5.9	0
6	Three-dimensional stacked filter (3DSF): a nonlinear filter for series images of TEM. <i>Ultramicroscopy</i> , 2022 , 240, 113560	3.1	0
5	B21-O-05 Atomic motion in monolayer molybdenum disulfide probed by in-situ ADF-STEM. <i>Microscopy (Oxford, England)</i> , 2015 , 64, i41.2-i41	1.3	
4	In-Situ HR-TEM Characterizations on Individual Carbon Nanotubes During its Manipulation, Deformation and Growth. <i>Microscopy and Microanalysis</i> , 2009 , 15, 710-711	0.5	
3	Defect Physics in 2D Nanomaterials Explored by STEM/STM 2020 , 21-48		
2	Is the electronic structure of few layer transition metal dichalcogenides always two dimensional ? 2016 , 961-961		
1	Three-leaf dart-shaped single-crystal BN formation promoted by surface oxygen. <i>Applied Physics Letters</i> , 2018 , 113, 163101	3.4	