

# Chuan-Hong Jin

## List of Publications by Year in descending order

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194  
papers

23,283  
citations

13854

67  
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7736

150  
g-index

199  
all docs

199  
docs citations

199  
times ranked

30446  
citing authors

#	ARTICLE	IF	CITATIONS
1	Large Scale Growth and Characterization of Atomic Hexagonal Boron Nitride Layers. Nano Letters, 2010, 10, 3209-3215.	4.5	2,317
2	Atomic layers of hybridized boron nitride and graphene domains. Nature Materials, 2010, 9, 430-435.	13.3	2,002
3	Perovskite light-emitting diodes based on solution-processed self-organized multiple quantum wells. Nature Photonics, 2016, 10, 699-704.	15.6	1,535
4	Exploring atomic defects in molybdenum disulphide monolayers. Nature Communications, 2015, 6, 6293.	5.8	1,124
5	Fabrication of a Freestanding Boron Nitride Single Layer and Its Defect Assignments. Physical Review Letters, 2009, 102, 195505.	2.9	973
6	Graphene Annealing: How Clean Can It Be?. Nano Letters, 2012, 12, 414-419.	4.5	801
7	Plasma-assisted fabrication of monolayer phosphorene and its Raman characterization. Nano Research, 2014, 7, 853-859.	5.8	606
8	Towards polyvalent ion batteries: A zinc-ion battery based on NASICON structured Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> . Nano Energy, 2016, 25, 211-217.	8.2	574
9	Deriving Carbon Atomic Chains from Graphene. Physical Review Letters, 2009, 102, 205501.	2.9	571
10	Highly active and durable methanol oxidation electrocatalyst based on the synergy of platinum-nickel hydroxide-graphene. Nature Communications, 2015, 6, 10035.	5.8	466
11	Interlayer couplings, Moiré patterns, and 2D electronic superlattices in MoS <sub>2</sub> /WSe <sub>2</sub> hetero-bilayers. Science Advances, 2017, 3, e1601459.	4.7	414
12	Growth of Large-Area 2D MoS <sub>2</sub> (1-x)Se <sub>2x</sub> Semiconductor Alloys. Advanced Materials, 2014, 26, 2648-2653.	11.1	347
13	Ultrasmall and phase-pure W <sub>2</sub> C nanoparticles for efficient electrocatalytic and photoelectrochemical hydrogen evolution. Nature Communications, 2016, 7, 13216.	5.8	334
14	Aligned, high-density semiconducting carbon nanotube arrays for high-performance electronics. Science, 2020, 368, 850-856.	6.0	308
15	Clean Transfer of Graphene for Isolation and Suspension. ACS Nano, 2011, 5, 2362-2368.	7.3	285
16	Epitaxy and Photoresponse of Two-Dimensional GaSe Crystals on Flexible Transparent Mica Sheets. ACS Nano, 2014, 8, 1485-1490.	7.3	285
17	Quantitative Analysis of Current-Voltage Characteristics of Semiconducting Nanowires: Decoupling of Contact Effects. Advanced Functional Materials, 2007, 17, 2478-2489.	7.8	283
18	Ultrastiff and Strong Graphene Fibers via Full-Scale Synergetic Defect Engineering. Advanced Materials, 2016, 28, 6449-6456.	11.1	279

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19	High Mobility 2D Palladium Diselenide Field-Effect Transistors with Tunable Ambipolar Characteristics. <i>Advanced Materials</i> , 2017, 29, 1602969.	11.1	251
20	Sulfur and Nitrogen Co-Doped, Few-Layered Graphene Oxide as a Highly Efficient Electrocatalyst for the Oxygen-Reduction Reaction. <i>ChemSusChem</i> , 2013, 6, 493-499.	3.6	242
21	Controlled Synthesis of High-Quality Monolayered $\text{In}_2\text{Se}_3$ via Physical Vapor Deposition. <i>Nano Letters</i> , 2015, 15, 6400-6405.	4.5	239
22	Top-down fabrication of sub-nanometre semiconducting nanoribbons derived from molybdenum disulfide sheets. <i>Nature Communications</i> , 2013, 4, 1776.	5.8	220
23	Strong Local Coordination Structure Effects on Subnanometer $\text{PtO}_x$ Clusters over $\text{CeO}_2$ Nanowires Probed by Low-Temperature CO Oxidation. <i>ACS Catalysis</i> , 2015, 5, 5164-5173.	5.5	214
24	Atomic Defects in Two-Dimensional Materials: From Single-Atom Spectroscopy to Functionalities in Optoelectronics, Nanomagnetism, and Catalysis. <i>Advanced Materials</i> , 2017, 29, 1606434.	11.1	211
25	Two-Dimensional Molybdenum Tungsten Diselenide Alloys: Photoluminescence, Raman Scattering, and Electrical Transport. <i>ACS Nano</i> , 2014, 8, 7130-7137.	7.3	208
26	Stable Metallic $1\text{T}'\text{WS}_2$ Nanoribbons Intercalated with Ammonia Ions: The Correlation between Structure and Electrical/Optical Properties. <i>Advanced Materials</i> , 2015, 27, 4837-4844.	11.1	207
27	Plumbing carbon nanotubes. <i>Nature Nanotechnology</i> , 2008, 3, 17-21.	15.6	202
28	Epitaxial Growth of Twinned Au-Pt Core-Shell Star-Shaped Decahedra as Highly Durable Electrocatalysts. <i>Nano Letters</i> , 2015, 15, 7808-7815.	4.5	195
29	Controlled Growth of Atomically Thin $\text{In}_2\text{Se}_3$ Flakes by van der Waals Epitaxy. <i>Journal of the American Chemical Society</i> , 2013, 135, 13274-13277.	6.6	192
30	Direct growth of large-area graphene and boron nitride heterostructures by a co-segregation method. <i>Nature Communications</i> , 2015, 6, 6519.	5.8	190
31	Chemical vapor deposition growth of large-scale hexagonal boron nitride with controllable orientation. <i>Nano Research</i> , 2015, 8, 3164-3176.	5.8	171
32	Graphene Nanoribbons from Unzipped Carbon Nanotubes: Atomic Structures, Raman Spectroscopy, and Electrical Properties. <i>Journal of the American Chemical Society</i> , 2011, 133, 10394-10397.	6.6	170
33	General incorporation of diverse components inside metal-organic framework thin films at room temperature. <i>Nature Communications</i> , 2014, 5, 5532.	5.8	155
34	Tailoring the thermal and electrical transport properties of graphene films by grain size engineering. <i>Nature Communications</i> , 2017, 8, 14486.	5.8	154
35	Metal-Free Growth of Nanographene on Silicon Oxides for Transparent Conducting Applications. <i>Advanced Functional Materials</i> , 2012, 22, 2123-2128.	7.8	150
36	Fast Photoresponse from 1T Tin Diselenide Atomic Layers. <i>Advanced Functional Materials</i> , 2016, 26, 137-145.	7.8	150

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37	Reversible Conversion-Alloying of Sb <sub>2</sub> O <sub>3</sub> as a High-Capacity, High-Rate, and Durable Anode for Sodium Ion Batteries. ACS Applied Materials & Interfaces, 2014, 6, 19449-19455.	4.0	143
38	Engineering crystalline structures of two-dimensional MoS <sub>2</sub> sheets for high-performance organic solar cells. Journal of Materials Chemistry A, 2014, 2, 7727-7733.	5.2	142
39	Kinetically controlled synthesis of Pt-Cu alloy concave nanocubes with high-index facets for methanol electro-oxidation. Chemical Communications, 2014, 50, 560-562.	2.2	140
40	High-Quality Ultralong Bi <sub>2</sub> S <sub>3</sub> Nanowires: Structure, Growth, and Properties. Journal of Physical Chemistry B, 2005, 109, 18772-18776.	1.2	137
41	TiS <sub>2</sub> nanoplates: A high-rate and stable electrode material for sodium ion batteries. Nano Energy, 2016, 20, 168-175.	8.2	137
42	Comparative Study on the Localized Surface Plasmon Resonance of Boron- and Phosphorus-Doped Silicon Nanocrystals. ACS Nano, 2015, 9, 378-386.	7.3	133
43	All Chemical Vapor Deposition Synthesis and Intrinsic Bandgap Observation of MoS <sub>2</sub> /Graphene Heterostructures. Advanced Materials, 2015, 27, 7086-7092.	11.1	132
44	Robust Stacking-Independent Ultrafast Charge Transfer in MoS <sub>2</sub> /WS <sub>2</sub> Bilayers. ACS Nano, 2017, 11, 12020-12026.	7.3	130
45	Preparation of Single-Layer MoS <sub>2</sub> /xSe <sub>2</sub> (1-x) and Mo <sub>x</sub> W <sub>1-x</sub> S <sub>2</sub> Nanosheets with High-Concentration Metallic 1T Phase. Small, 2016, 12, 1866-1874.	5.2	126
46	Confinement of Perovskite QDs within a Single MOF Crystal for Significantly Enhanced Multiphoton Excited Luminescence. Advanced Materials, 2019, 31, e1806897.	11.1	124
47	Periodic Organic-Inorganic Halide Perovskite Microplatelet Arrays on Silicon Substrates for Room-Temperature Lasing. Advanced Science, 2016, 3, 1600137.	5.6	121
48	In situ Study of Oxidative Etching of Palladium Nanocrystals by Liquid Cell Electron Microscopy. Nano Letters, 2014, 14, 3761-3765.	4.5	120
49	Capture the growth kinetics of CVD growth of two-dimensional MoS <sub>2</sub> . Npj 2D Materials and Applications, 2017, 1, .	3.9	115
50	Controlled Synthesis of Organic/Inorganic van der Waals Solid for Tunable Light-Matter Interactions. Advanced Materials, 2015, 27, 7800-7808.	11.1	109
51	Nanoporous core-shell Cu@Cu <sub>2</sub> O nanocomposites with superior photocatalytic properties towards the degradation of methyl orange. RSC Advances, 2012, 2, 12636.	1.7	104
52	Epitaxial Growth of Multimetallic Pd@PtM (M = Ni, Rh, Ru) Core-Shell Nanoplates Realized by in Situ-Produced CO from Interfacial Catalytic Reactions. Nano Letters, 2016, 16, 7999-8004.	4.5	103
53	Water-Assisted Preparation of High-Purity Semiconducting (1,4) Carbon Nanotubes. ACS Nano, 2017, 11, 186-193.	7.3	100
54	Strong interfacial coupling of MoS <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> van de Waals solids for highly active water reduction. Nano Energy, 2016, 27, 44-50.	8.2	96

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55	Van der Waals Epitaxial Growth of Atomic Layered HfS <sub>2</sub> Crystals for Ultrasensitive Near-Infrared Phototransistors. <i>Advanced Materials</i> , 2017, 29, 1700439.	11.1	96
56	Direct Chemical Vapor Deposition Growth and Band-Gap Characterization of MoS <sub>2</sub> /h-BN van der Waals Heterostructures on Au Foils. <i>ACS Nano</i> , 2017, 11, 4328-4336.	7.3	87
57	Phase Identification and Strong Second Harmonic Generation in Pure $\mu$ -InSe and Its Alloys. <i>Nano Letters</i> , 2019, 19, 2634-2640.	4.5	86
58	Amorphous oxygen-rich molybdenum oxysulfide Decorated p-type silicon microwire Arrays for efficient photoelectrochemical water reduction. <i>Nano Energy</i> , 2015, 16, 130-142.	8.2	85
59	One-Step Synthesis of Metal/Semiconductor Heterostructure NbS <sub>2</sub> /MoS <sub>2</sub> . <i>Chemistry of Materials</i> , 2018, 30, 4001-4007.	3.2	85
60	Ultrafine Nanoparticle-Supported Ru Nanoclusters with Ultrahigh Catalytic Activity. <i>Small</i> , 2015, 11, 4385-4393.	5.2	80
61	Vacancy Migrations in Carbon Nanotubes. <i>Nano Letters</i> , 2008, 8, 1127-1130.	4.5	79
62	Two-Dimensional Layered Heterostructures Synthesized from Core-Shell Nanowires. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 8957-8960.	7.2	78
63	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.	1.5	73
64	Anisotropic Spectroscopy and Electrical Properties of 2D ReS <sub>2</sub> (1-x)Se <sub>2x</sub> Alloys with Distorted 1T Structure. <i>Small</i> , 2017, 13, 1603788.	5.2	70
65	Fabrication of MoSe <sub>2</sub> nanoribbons via an unusual morphological phase transition. <i>Nature Communications</i> , 2017, 8, 15135.	5.8	70
66	Spatially-confined lithiation-delithiation in highly dense nanocomposite anodes towards advanced lithium-ion batteries. <i>Energy and Environmental Science</i> , 2015, 8, 1471-1479.	15.6	69
67	Colloidal Indium-Doped Zinc Oxide Nanocrystals with Tunable Work Function: Rational Synthesis and Optoelectronic Applications. <i>Chemistry of Materials</i> , 2014, 26, 5169-5178.	3.2	68
68	Boron- and Phosphorus-Hyperdoped Silicon Nanocrystals. <i>Particle and Particle Systems Characterization</i> , 2015, 32, 213-221.	1.2	68
69	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, 16046-16053.	2.8	68
70	An In situ TEM study of the surface oxidation of palladium nanocrystals assisted by electron irradiation. <i>Nanoscale</i> , 2017, 9, 6327-6333.	2.8	68
71	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.	4.5	68
72	Morphology Engineering in Monolayer MoS <sub>2</sub> /WS <sub>2</sub> Lateral Heterostructures. <i>Advanced Functional Materials</i> , 2018, 28, 1801568.	7.8	67

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73	Controlled Growth and Reliable Thickness-Dependent Properties of Organic-Inorganic Perovskite Platelet Crystal. <i>Advanced Functional Materials</i> , 2016, 26, 5263-5270.	7.8	64
74	Ultrathin Two-Dimensional Pd-Based Nanorings as Catalysts for Hydrogenation with High Activity and Stability. <i>Small</i> , 2015, 11, 4745-4752.	5.2	62
75	Growth of Polar Hexagonal Boron Nitride Monolayer on Nonpolar Copper with Unique Orientation. <i>Small</i> , 2016, 12, 3645-3650.	5.2	62
76	In-situ studies of electron field emission of single carbon nanotubes inside the TEM. <i>Carbon</i> , 2005, 43, 1026-1031.	5.4	61
77	Single-crystalline dendritic bimetallic and multimetallic nanocubes. <i>Chemical Science</i> , 2015, 6, 7122-7129.	3.7	61
78	Ni-MoS <sub>2</sub> hetero-nanosheet array electrocatalysts for efficient overall water splitting. <i>Sustainable Energy and Fuels</i> , 2019, 3, 2056-2066.	2.5	61
79	In Situ Fabrication and Graphitization of Amorphous Carbon Nanowires and Their Electrical Properties. <i>Journal of Physical Chemistry B</i> , 2006, 110, 5423-5428.	1.2	60
80	Large-Scale Synthesis of Rings of Bundled Single-Walled Carbon Nanotubes by Floating Chemical Vapor Deposition. <i>Advanced Materials</i> , 2006, 18, 1817-1821.	11.1	57
81	Aligned Growth of Hexagonal Boron Nitride Monolayer on Germanium. <i>Small</i> , 2015, 11, 5375-5380.	5.2	56
82	Facile synthesis of Rh-Pd alloy nanodendrites as highly active and durable electrocatalysts for oxygen reduction reaction. <i>Nanoscale</i> , 2014, 6, 7012-7018.	2.8	55
83	Solvent-Based Soft Patterning of Graphene Lateral Heterostructures for Broadband High-Speed Metal-Semiconductor-Metal Photodetectors. <i>Advanced Materials Technologies</i> , 2017, 2, 1600241.	3.0	53
84	Inversion Domain Boundary Induced Stacking and Bandstructure Diversity in Bilayer MoSe <sub>2</sub> . <i>Nano Letters</i> , 2017, 17, 6653-6660.	4.5	51
85	Atomic resolution liquid-cell transmission electron microscopy investigations of the dynamics of nanoparticles in ultrathin liquids. <i>Chemical Communications</i> , 2013, 49, 10944.	2.2	50
86	Fabrication of sub-nanometer pores on graphene membrane for ion selective transport. <i>Nanoscale</i> , 2018, 10, 5350-5357.	2.8	50
87	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.	3.1	49
88	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.	4.0	48
89	Structural Phase Transition of Multilayer VSe <sub>2</sub> . <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 25143-25149.	4.0	47
90	In situ study of the growth of two-dimensional palladium dendritic nanostructures using liquid-cell electron microscopy. <i>Chemical Communications</i> , 2014, 50, 9447.	2.2	45

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91	Low-Temperature Growth of Two-Dimensional Layered Chalcogenide Crystals on Liquid. Nano Letters, 2016, 16, 2103-2107.	4.5	45
92	Probing the anisotropic behaviors of black phosphorus by transmission electron microscopy, angular-dependent Raman spectra, and electronic transport measurements. Applied Physics Letters, 2015, 107, .	1.5	44
93	NiS-MoS <sub>2</sub> Hetero-nanosheet Arrays on Carbon Cloth for High-Performance Flexible Hybrid Energy Storage Devices. ACS Sustainable Chemistry and Engineering, 2019, 7, 11672-11681.	3.2	44
94	Revealing the Cluster-Cloud and Its Role in Nanocrystallization. Advanced Materials, 2019, 31, e1808225.	11.1	41
95	Self-supporting nanoporous gold-palladium overlayer bifunctional catalysts toward oxygen reduction and evolution reactions. Nano Research, 2016, 9, 3781-3794.	5.8	39
96	Atomic Scale Stability of Tungsten-Cobalt Intermetallic Nanocrystals in Reactive Environment at High Temperature. Journal of the American Chemical Society, 2019, 141, 5871-5879.	6.6	39
97	Shaped Pt-Ni nanocrystals with an ultrathin Pt-enriched shell derived from one-pot hydrothermal synthesis as active electrocatalysts for oxygen reduction. Nano Research, 2015, 8, 1480-1496.	5.8	38
98	<i>In situ</i> electrical measurements of polytypic silver nanowires. Nanotechnology, 2008, 19, 085711.	1.3	36
99	Atomic process of oxidative etching in monolayer molybdenum disulfide. Science Bulletin, 2017, 62, 846-851.	4.3	36
100	Unveiling Growth Pathways of Multiply Twinned Gold Nanoparticles by <i>In Situ</i> Liquid Cell Transmission Electron Microscopy. ACS Nano, 2020, 14, 9594-9604.	7.3	36
101	Facile solvothermal synthesis of ultrathin LiFe <sub>x</sub> Mn <sub>1-x</sub> PO <sub>4</sub> nanoplates as advanced cathodes with long cycle life and superior rate capability. Journal of Materials Chemistry A, 2015, 3, 19368-19375.	5.2	35
102	Preparation of Twisted Bilayer Graphene via the Wetting Transfer Method. ACS Applied Materials & Interfaces, 2020, 12, 40958-40967.	4.0	35
103	Direct Imaging of Kinetic Pathways of Atomic Diffusion in Monolayer Molybdenum Disulfide. Nano Letters, 2017, 17, 3383-3390.	4.5	34
104	How Does A Carbon Nanotube Grow? An In Situ Investigation on the Cap Evolution. ACS Nano, 2008, 2, 1275-1279.	7.3	33
105	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. Journal of Materials Chemistry A, 2019, 7, 23182-23190.	5.2	33
106	An improved Wiener deconvolution filter for high-resolution electron microscopy images. Micron, 2013, 50, 1-6.	1.1	32
107	Pt-Cu alloy with high density of surface Pt defects for efficient catalysis of breaking C-C bond in ethanol. Electrochimica Acta, 2014, 125, 29-37.	2.6	32
108	Layer-dependent anisotropic electronic structure of freestanding quasi-two-dimensional MoS <sub>2</sub> . Physical Review B, 2016, 93, .	1.1	32

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109	In-situ fabrication of MoS <sub>2</sub> -nanowire-terminated edges in monolayer molybdenum disulfide. Nano Research, 2018, 11, 5849-5857.	5.8	32
110	Phase Separations in LiFe <sub>1-x</sub> Mn <sub>x</sub> PO <sub>4</sub> : A Random Stack Model for Efficient Cathode Materials. Journal of Physical Chemistry C, 2014, 118, 796-803.	1.5	31
111	Kinetically-controlled growth of cubic and octahedral Rh-Pd alloy oxygen reduction electrocatalysts with high activity and durability. Nanoscale, 2015, 7, 301-307.	2.8	31
112	Black phosphorus nanoflakes as morphology modifier for efficient fullerene-free organic solar cells with high fill-factor and better morphological stability. Nano Research, 2019, 12, 777-783.	5.8	31
113	Formation of Subnanometer Zr-WO <sub>x</sub> Clusters within Mesoporous W-Zr Mixed Oxides as Strong Solid Acid Catalysts for Friedel-Crafts Alkylation. Journal of Physical Chemistry C, 2014, 118, 6283-6290.	1.5	30
114	Probing the oxidative etching induced dissolution of palladium nanocrystals in solution by liquid cell transmission electron microscopy. Micron, 2017, 97, 22-28.	1.1	28
115	Metal Atom Catalyzed Enlargement of Fullerenes. Physical Review Letters, 2008, 101, 176102.	2.9	27
116	Quantum Confined Tomonaga-Luttinger Liquid in Mo <sub>6</sub> Se <sub>6</sub> Nanowires Converted from an Epitaxial MoSe <sub>2</sub> Monolayer. Nano Letters, 2020, 20, 2094-2099.	4.5	27
117	Deriving phosphorus atomic chains from few-layer black phosphorus. Nano Research, 2017, 10, 2519-2526.	5.8	26
118	Space-confined and substrate-directed synthesis of transition-metal dichalcogenide nanostructures with tunable dimensionality. Science Bulletin, 2020, 65, 1013-1021.	4.3	25
119	Highly Pure and Luminescent Graphene Quantum Dots on Silicon Directly Grown by Chemical Vapor Deposition. Particle and Particle Systems Characterization, 2016, 33, 8-14.	1.2	23
120	Deriving MoS <sub>2</sub> nanoribbons from their flakes by chemical vapor deposition. Nanotechnology, 2019, 30, 255602.	1.3	22
121	Grain boundaries in chemical-vapor-deposited atomically thin hexagonal boron nitride. Physical Review Materials, 2019, 3, .	0.9	21
122	Performance change of few layer black phosphorus transistors in ambient. AIP Advances, 2015, 5, 107112.	0.6	20
123	Embedding Ultrafine and High-Content Pt Nanoparticles at Ceria Surface for Enhanced Thermal Stability. Advanced Science, 2017, 4, 1700056.	5.6	20
124	Niobium doping induced mirror twin boundaries in MBE grown WSe <sub>2</sub> monolayers. Nano Research, 2020, 13, 1889-1896.	5.8	20
125	High mobility top gated field-effect transistors and integrated circuits based on chemical vapor deposition-derived monolayer MoS <sub>2</sub> . Materials Express, 2016, 6, 198-204.	0.2	19
126	Atomistic dynamics of sulfur-deficient high-symmetry grain boundaries in molybdenum disulfide. Nanoscale, 2017, 9, 10312-10320.	2.8	18

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127	Revealing the microscopic CVD growth mechanism of MoSe <sub>2</sub> and the role of hydrogen gas during the growth procedure. <i>Nanotechnology</i> , 2018, 29, 314001.	1.3	18
128	Experimental study of protein translocation through MoS <sub>2</sub> nanopores. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	18
129	Characterization of Graphene Grown on Bulk and Thin Film Nickel. <i>Langmuir</i> , 2011, 27, 13748-13753.	1.6	17
130	Hydrogen-assisted post-growth substitution of tellurium into molybdenum disulfide monolayers with tunable compositions. <i>Nanotechnology</i> , 2018, 29, 145603.	1.3	17
131	Ion-templated fabrication of Pt-Cu alloy octahedra with controlled compositions for electrochemical detection of H <sub>2</sub> O <sub>2</sub> . <i>Journal of Alloys and Compounds</i> , 2019, 788, 1334-1340.	2.8	17
132	Efficiently producing single-walled carbon nanotube rings and investigation of their field emission properties. <i>Nanotechnology</i> , 2006, 17, 2355-2361.	1.3	16
133	Hole doping in epitaxial MoSe <sub>2</sub> monolayer by nitrogen plasma treatment. <i>2D Materials</i> , 2018, 5, 041005.	2.0	16
134	A Shallow Acceptor of Phosphorous Doped in MoSe <sub>2</sub> Monolayer. <i>Advanced Electronic Materials</i> , 2020, 6, 1900830.	2.6	16
135	Deriving 2D M <sub>2</sub> X <sub>3</sub> (M = Mo, W, X = S, Se) by periodic assembly of chalcogen vacancy lines in their MX <sub>2</sub> counterparts. <i>Nanoscale</i> , 2020, 12, 8285-8293.	2.8	16
136	Switching electron current in a semiconductor nanowire via controlling the carrier injection from the electrode. <i>Applied Physics Letters</i> , 2006, 89, 213108.	1.5	15
137	Direct evidence for lip-lip interactions in multi-walled carbon nanotubes. <i>Nano Research</i> , 2008, 1, 434-439.	5.8	15
138	Oxidation behavior of cobalt nanoparticles studied by in situ environmental transmission electron microscopy. <i>Science Bulletin</i> , 2017, 62, 775-778.	4.3	15
139	Interlayer Coupling Dependent Discrete H <sup>+</sup> Phase Transition in Lithium Intercalated Bilayer Molybdenum Disulfide. <i>ACS Nano</i> , 2021, 15, 15039-15046.	7.3	15
140	Atomic-Precision Fabrication of Quasi-Full-Space Grain Boundaries in Two-Dimensional Hexagonal Boron Nitride. <i>Nano Letters</i> , 2019, 19, 8581-8589.	4.5	14
141	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.	2.1	14
142	Grain Boundary Motion in Two-Dimensional Hexagonal Boron Nitride. <i>ACS Nano</i> , 2020, 14, 13512-13523.	7.3	14
143	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.	1.5	13
144	Monolithic Integration of Vertical Thin-Film Transistors in Nanopores for Charge Sensing of Single Biomolecules. <i>ACS Nano</i> , 2021, 15, 9882-9889.	7.3	13

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145	Effective passivation of black phosphorus transistor against ambient degradation by an ultra-thin tin oxide film. <i>Science Bulletin</i> , 2019, 64, 570-574.	4.3	12
146	Magnetism in molybdenum disulphide monolayer with sulfur substituted by 3d transition metals. <i>Journal of Applied Physics</i> , 2016, 120, 144305.	1.1	11
147	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.	2.5	11
148	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.	2.0	11
149	Synthesis and Characterization of Ultrathin Tin-Doped Zinc Oxide Nanowires. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 4268-4272.	1.0	10
150	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.	2.2	10
151	The formation and shape transformation mechanism of a triangular Au nanoplate revealed by liquid-cell TEM. <i>Nanoscale</i> , 2020, 12, 19592-19596.	2.8	10
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