

Yimo Han

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.

54
papers

4,659
citations

25
h-index

57
g-index

57
ext. papers

5,898
ext. citations

15.3
avg, IF

5.47
L-index

#	Paper	IF	Citations
54	Direct Visualization of Floppy Two-Dimensional DNA Origami using Cryogenic Electron Microscopy. <i>IScience</i> , 2022 , 104373	6.1	2
53	Synthesis of High-Performance Monolayer Molybdenum Disulfide at Low Temperature.. <i>Small Methods</i> , 2021 , 5, e2000720	12.8	3
52	Rapid and Semi-Automated Analysis of 4D-STEM data via Unsupervised Learning. <i>Microscopy and Microanalysis</i> , 2021 , 27, 58-59	0.5	1
51	Large Single Crystals of Two-Dimensional π -Conjugated Metal-Organic Frameworks via Biphasic Solution-Solid Growth. <i>ACS Central Science</i> , 2021 , 7, 104-109	16.8	16
50	Structure and mechanism of human diacylglycerol O-acyltransferase α . <i>Nature</i> , 2020 , 581, 329-332	50.4	28
49	Mixed-state electron ptychography enables sub-angstrom resolution imaging with picometer precision at low dose. <i>Nature Communications</i> , 2020 , 11, 2994	17.4	22
48	Imaging Polarity in Two Dimensional Materials by Breaking Friedel's Law. <i>Ultramicroscopy</i> , 2020 , 215, 113019	3.1	8
47	Graphene-assisted spontaneous relaxation towards dislocation-free heteroepitaxy. <i>Nature Nanotechnology</i> , 2020 , 15, 272-276	28.7	32
46	High-yield monolayer graphene grids for near-atomic resolution cryoelectron microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 1009-1014	11.5	37
45	Uncovering Atomic and Nano-scale Deformations in Two-dimensional Lateral Heterojunctions. <i>Microscopy and Microanalysis</i> , 2020 , 26, 1630-1631	0.5	
44	Aberration-corrected STEM imaging of 2D materials: Artifacts and practical applications of threefold astigmatism. <i>Science Advances</i> , 2020 , 6,	14.3	7
43	Scaling-up Atomically Thin Coplanar Semiconductor-Metal Circuitry via Phase Engineered Chemical Assembly. <i>Nano Letters</i> , 2019 , 19, 6845-6852	11.5	26
42	Atomic Layer Deposition for Membranes, Metamaterials, and Mechanisms. <i>Advanced Materials</i> , 2019 , 31, e1901944	24	15
41	2D Materials: Metal-Guided Selective Growth of 2D Materials: Demonstration of a Bottom-Up CMOS Inverter (Adv. Mater. 18/2019). <i>Advanced Materials</i> , 2019 , 31, 1970132	24	0
40	Metal-Guided Selective Growth of 2D Materials: Demonstration of a Bottom-Up CMOS Inverter. <i>Advanced Materials</i> , 2019 , 31, e1900861	24	28
39	Additive manufacturing of patterned 2D semiconductor through recyclable masked growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 3437-3442	11.5	25
38	Realization of Quantum Hall Effect in Chemically Synthesized InSe. <i>Advanced Functional Materials</i> , 2019 , 29, 1904032	15.6	16

37	Phase Imaging beyond the Diffraction Limit with Electron Ptychography. <i>Microscopy and Microanalysis</i> , 2019 , 25, 6-7	0.5	1
36	Micromechanical Systems: Atomic Layer Deposition for Membranes, Metamaterials, and Mechanisms (Adv. Mater. 29/2019). <i>Advanced Materials</i> , 2019 , 31, 1970212	24	
35	GaN/NbN epitaxial semiconductor/superconductor heterostructures. <i>Nature</i> , 2018 , 555, 183-189	50.4	83
34	Coherent, atomically thin transition-metal dichalcogenide superlattices with engineered strain. <i>Science</i> , 2018 , 359, 1131-1136	33.3	170
33	Strain distributions and their influence on electronic structures of WSe-MoS laterally strained heterojunctions. <i>Nature Nanotechnology</i> , 2018 , 13, 152-158	28.7	135
32	Graphene-based bimorphs for micron-sized, autonomous origami machines. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 466-470	11.5	113
31	Theory and practice of electron diffraction from single atoms and extended objects using an EMPAD. <i>Microscopy (Oxford, England)</i> , 2018 , 67, i150-i161	1.3	18
30	Electron ptychography of 2D materials to deep sub-ångström resolution. <i>Nature</i> , 2018 , 559, 343-349	50.4	269
29	Sub-nanometre channels embedded in two-dimensional materials. <i>Nature Materials</i> , 2018 , 17, 129-133	27	75
28	Real-space Demonstration of 0.4 Angstrom Resolution at 80 keV via Electron Ptychography with a High Dynamic Range Pixel Array Detector. <i>Microscopy and Microanalysis</i> , 2018 , 24, 194-195	0.5	
27	AirSEM: Electron Microscopy in Air, without a Specimen Chamber. <i>Microscopy and Microanalysis</i> , 2018 , 24, 342-343	0.5	
26	Mapping Strain and Relaxation in 2D Heterojunctions with Sub-picometer Precision. <i>Microscopy and Microanalysis</i> , 2018 , 24, 1588-1589	0.5	
25	Mechanism of Gold-Assisted Exfoliation of Centimeter-Sized Transition-Metal Dichalcogenide Monolayers. <i>ACS Nano</i> , 2018 , 12, 10463-10472	16.7	99
24	In Situ-Generated Volatile Precursor for CVD Growth of a Semimetallic 2D Dichalcogenide. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 34401-34408	9.5	15
23	Synthetic Lateral Metal-Semiconductor Heterostructures of Transition Metal Disulfides. <i>Journal of the American Chemical Society</i> , 2018 , 140, 12354-12358	16.4	60
22	Strain Mapping of Two-Dimensional Heterostructures with Subpicometer Precision. <i>Nano Letters</i> , 2018 , 18, 3746-3751	11.5	50
21	Intrinsic Two-Dimensional Ferroelectricity with Dipole Locking. <i>Physical Review Letters</i> , 2018 , 120, 227601	1.4	170
20	Characterization of Sulfur and Nanostructured Sulfur Battery Cathodes in Electron Microscopy Without Sublimation Artifacts. <i>Microscopy and Microanalysis</i> , 2017 , 23, 155-162	0.5	32

19	Janus monolayers of transition metal dichalcogenides. <i>Nature Nanotechnology</i> , 2017 , 12, 744-749	28.7	828
18	Enhanced Resolution from Full-Field Ptychography with an Electron Microscope Pixel Array Detector. <i>Microscopy and Microanalysis</i> , 2017 , 23, 438-439	0.5	
17	Theory and Practice of Diffractometry on Single Tungsten Atoms using Electron Microscope Pixel Array Detectors. <i>Microscopy and Microanalysis</i> , 2017 , 23, 444-445	0.5	1
16	Layer-by-layer assembly of two-dimensional materials into wafer-scale heterostructures. <i>Nature</i> , 2017 , 550, 229-233	50.4	305
15	Tailoring Semiconductor Lateral Multijunctions for Giant Photoconductivity Enhancement. <i>Advanced Materials</i> , 2017 , 29, 1703680	24	17
14	Chemical Vapor Deposition Growth of Large Single-Crystal Mono-, Bi-, Tri-Layer Hexagonal Boron Nitride and Their Interlayer Stacking. <i>ACS Nano</i> , 2017 , 11, 12057-12066	16.7	58
13	Picometer-Precision Strain Mapping of Two-Dimensional Heterostructures using an Electron Microscope Pixel Array Detector (EMPAD). <i>Microscopy and Microanalysis</i> , 2017 , 23, 1712-1713	0.5	
12	Breaking Friedel's Law in Polar Two Dimensional Materials. <i>Microscopy and Microanalysis</i> , 2017 , 23, 1738-1739	0.5	1
11	Atomically Thin Graphene Windows That Enable High Contrast Electron Microscopy without a Specimen Vacuum Chamber. <i>Nano Letters</i> , 2016 , 16, 7427-7432	11.5	13
10	Electron Diffraction from a Single Atom and Optimal Signal Detection. <i>Microscopy and Microanalysis</i> , 2016 , 22, 846-847	0.5	3
9	Atomically Thin Ohmic Edge Contacts Between Two-Dimensional Materials. <i>ACS Nano</i> , 2016 , 10, 6392-9	16.7	144
8	Strain Accommodation and Coherency in Laterally-Stitched WSe ₂ /WS ₂ Junctions. <i>Microscopy and Microanalysis</i> , 2016 , 22, 870-871	0.5	5
7	Large-scale chemical assembly of atomically thin transistors and circuits. <i>Nature Nanotechnology</i> , 2016 , 11, 954-959	28.7	201
6	Graphene Oxide Nanosheets Stimulate Ruffling and Shedding of Mammalian Cell Plasma Membranes. <i>Chem</i> , 2016 , 1, 273-286	16.2	22
5	High-mobility three-atom-thick semiconducting films with wafer-scale homogeneity. <i>Nature</i> , 2015 , 520, 656-60	50.4	1224
4	Esaki Diodes in van der Waals Heterojunctions with Broken-Gap Energy Band Alignment. <i>Nano Letters</i> , 2015 , 15, 5791-8	11.5	237
3	Electron Microscopy in Air: Transparent Atomic Membranes and Imaging Modes. <i>Microscopy and Microanalysis</i> , 2015 , 21, 1111-1112	0.5	5
2	High Yield Monolayer Graphene Grids for Near-Atomic Resolution Cryo-Electron Microscopy		1

1	Ultrafast Pump-Probe Microscopy on 2D Transition Metal Dichalcogenides. <i>Advanced Photonics Research</i> , 2020, 046	1.9	1
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