

# Maohai Xie

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4797602/publications.pdf>

Version: 2024-02-01

37  
papers

2,026  
citations

394421

19  
h-index

345221

36  
g-index

37  
all docs

37  
docs citations

37  
times ranked

3513  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multivalency-Driven Formation of Te-Based Monolayer Materials: A Combined First-Principles and Experimental study. <i>Physical Review Letters</i> , 2017, 119, 106101.	7.8	409
2	Room-temperature ferroelectricity in MoTe <sub>2</sub> down to the atomic monolayer limit. <i>Nature Communications</i> , 2019, 10, 1775.	12.8	291
3	Dense Network of One-Dimensional Midgap Metallic Modes in Monolayer $\text{MoSe}_2$ and Their Spatial Undulations. <i>Physical Review Letters</i> , 2014, 113, 066105.	7.8	172
4	Ultrathin $\text{Te}$ -tellurium layers grown on highly oriented pyrolytic graphite by molecular-beam epitaxy. <i>Nanoscale</i> , 2017, 9, 15945-15948.	5.6	136
5	High-field linear magneto-resistance in topological insulator Bi <sub>2</sub> Se <sub>3</sub> thin films. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	104
6	One-dimensional phosphorus chain and two-dimensional blue phosphorene grown on Au(111) by molecular-beam epitaxy. <i>Physical Review Materials</i> , 2017, 1, .	2.4	89
7	Line and Point Defects in $\text{MoSe}_2$ Bilayer Studied by Scanning Tunneling Microscopy and Spectroscopy. <i>ACS Nano</i> , 2015, 9, 6619-6625.	14.6	73
8	Long cycle life of $\text{CoMn}_2\text{O}_4$ lithium ion battery anodes with high crystallinity. <i>Journal of Materials Chemistry A</i> , 2015, 3, 14759-14767.	10.3	72
9	Anomalous anisotropic magnetoresistance in topological insulator films. <i>Nano Research</i> , 2012, 5, 739-746.	10.4	71
10	Observation of intervalley quantum interference in epitaxial monolayer tungsten diselenide. <i>Nature Communications</i> , 2015, 6, 8180.	12.8	55
11	Distinct Topological Surface States on the Two Terminations of $\text{MnBi}$ . <i>Physical Review X</i> , 2020, 10, .	8.9	52
12	Inversion Domain Boundary Induced Stacking and Bandstructure Diversity in Bilayer $\text{MoSe}_2$ . <i>Nano Letters</i> , 2017, 17, 6653-6660.	9.1	51
13	Interplay between topological insulators and superconductors. <i>Physical Review B</i> , 2012, 85, .	3.2	47
14	Quantum Effects and Phase Tuning in Epitaxial Hexagonal and Monoclinic $\text{MoTe}_2$ Monolayers. <i>ACS Nano</i> , 2017, 11, 3282-3288.	14.6	46
15	Anisotropic Topological Surface States on High-Index $\text{Bi}_2\text{Se}_3$ Films. <i>Advanced Materials</i> , 2013, 25, 1557-1562.	21.0	44
16	Orientation-Engineered Small-Molecule Semiconductors as Dopant-Free Hole Transporting Materials for Efficient and Stable Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2021, 31, 2101270.	14.9	41
17	Lead removal from water – dependence on the form of carbon and surface functionalization. <i>RSC Advances</i> , 2018, 8, 18355-18362.	3.6	36
18	Large-Area Tellurium/Germanium Heterojunction Grown by Molecular Beam Epitaxy for High-Performance Self-Powered Photodetector. <i>Advanced Optical Materials</i> , 2021, 9, 2101052.	7.3	29

#	ARTICLE	IF	CITATIONS
19	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.	9.1	27
20	Charge Density Modulation and the Luttinger Liquid State in MoSe <sub>2</sub> Mirror Twin Boundaries. ACS Nano, 2020, 14, 10716-10722.	14.6	21
21	Niobium doping induced mirror twin boundaries in MBE grown WSe <sub>2</sub> monolayers. Nano Research, 2020, 13, 1889-1896.	10.4	20
22	Growth of GaN on Si(111): Surfaces and crystallinity of the epilayers and the transport behavior of GaN/Si heterojunctions. Journal of Applied Physics, 2011, 110, .	2.5	18
23	Strain in epitaxial Bi <sub>2</sub> Se <sub>3</sub> grown on GaN and graphene substrates: A reflection high-energy electron diffraction study. Applied Physics Letters, 2015, 107, .	3.3	16
24	Hole doping in epitaxial MoSe <sub>2</sub> monolayer by nitrogen plasma treatment. 2D Materials, 2018, 5, 041005.	4.4	16
25	A Shallow Acceptor of Phosphorous Doped in MoSe <sub>2</sub> Monolayer. Advanced Electronic Materials, 2020, 6, 1900830.	5.1	16
26	An alumina stabilized graphene oxide wrapped SnO <sub>2</sub> hollow sphere LIB anode with improved lithium storage. RSC Advances, 2015, 5, 100783-100789.	3.6	14
27	Strain in epitaxial high-index Bi <sub>2</sub> Se <sub>3</sub> (221) films grown by molecular-beam epitaxy. Applied Surface Science, 2017, 396, 1825-1830.	6.1	13
28	Single-layer Mo <sub>5</sub> Te <sub>8</sub> - A new polymorph of layered transition-metal chalcogenide. 2D Materials, 2021, 8, 015006.	4.4	9
29	Template-free synthesis of hierarchical hollow V <sub>2</sub> O <sub>5</sub> microspheres with highly stable lithium storage capacity. RSC Advances, 2017, 7, 2480-2485.	3.6	8
30	Multifarious Interfaces, Band Alignments, and Formation Asymmetry of WSe <sub>2</sub> -MoSe <sub>2</sub> Heterojunction Grown by Molecular-Beam Epitaxy. ACS Applied Materials & Interfaces, 2019, 11, 43766-43773.	8.0	8
31	Metal-phosphorus network on Pt(111). 2D Materials, 2022, 9, 045002.	4.4	6
32	Iron oxide/graphene composites as negative-electrode materials for lithium ion batteries - optimum particle size for stable performance. RSC Advances, 2015, 5, 91466-91471.	3.6	5
33	Synthesis of tungsten oxide comblike nanostructures. Journal of Materials Research, 2008, 23, 2657-2661.	2.6	4
34	Suspended Ga <sub>2</sub> Se <sub>3</sub> film and epitaxial Bi <sub>2</sub> Se <sub>3</sub> (221) on GaSb(001) by molecular-beam epitaxy. Journal of Crystal Growth, 2017, 459, 76-80.	1.5	4
35	Lateral in-plane coupling between graphene nanoribbons: A density functional study. Journal of Applied Physics, 2012, 111, 043714.	2.5	2
36	A SCANNING TUNNELING MICROSCOPY STUDY OF MONOLAYER AND BILAYER TRANSITION-METAL DICHALCOGENIDES GROWN BY MOLECULAR-BEAM EPITAXY. Surface Review and Letters, 2018, 25, 1841002.	1.1	1

#	ARTICLE	IF	CITATIONS
37	Defect Physics in 2D Nanomaterials Explored by STEM/STM. , 2020, , 21-48.		0