

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	Metal-phosphorus network on Pt(111). 2D Materials, 2022, 9, 045002.	4.4	6
2	Orientation-Engineered Small-Molecule Semiconductors as Dopant-Free Hole Transporting Materials for Efficient and Stable Perovskite Solar Cells. Advanced Functional Materials, 2021, 31, 2011270.	14.9	41
3	Large-Area Tellurium/Germanium Heterojunction Grown by Molecular Beam Epitaxy for High-Performance Self-Powered Photodetector. Advanced Optical Materials, 2021, 9, 2101052.	7.3	29
4	Single-layer Mo_5Te_8 - A new polymorph of layered transition-metal chalcogenide. 2D Materials, 2021, 8, 015006.	4.4	9
5	A Shallow Acceptor of Phosphorous Doped in MoSe_2 Monolayer. Advanced Electronic Materials, 2020, 6, 1900830.	5.1	16
6	Distinct Topological Surface States on the Two Terminations of MnBi . Physical Review X, 2020, 10, .	8.9	52
7	Charge Density Modulation and the Luttinger Liquid State in MoSe_2 Mirror Twin Boundaries. ACS Nano, 2020, 14, 10716-10722.	14.6	21
8	Quantum Confined Tomonaga-Luttinger Liquid in Mo_6Se_6 Nanowires Converted from an Epitaxial MoSe_2 Monolayer. Nano Letters, 2020, 20, 2094-2099.	9.1	27
9	Niobium doping induced mirror twin boundaries in MBE grown WSe_2 monolayers. Nano Research, 2020, 13, 1889-1896.	10.4	20
10	Defect Physics in 2D Nanomaterials Explored by STEM/STM. , 2020, , 21-48.		0
11	Multifarious Interfaces, Band Alignments, and Formation Asymmetry of WSe_2 - MoSe_2 Heterojunction Grown by Molecular-Beam Epitaxy. ACS Applied Materials & Interfaces, 2019, 11, 43766-43773.	8.0	8
12	Room-temperature ferroelectricity in MoTe_2 down to the atomic monolayer limit. Nature Communications, 2019, 10, 1775.	12.8	291
13	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
14	Lead removal from water - dependence on the form of carbon and surface functionalization. RSC Advances, 2018, 8, 18355-18362.	3.6	36
15	Hole doping in epitaxial MoSe_2 monolayer by nitrogen plasma treatment. 2D Materials, 2018, 5, 041005.	4.4	16
16	Quantum Effects and Phase Tuning in Epitaxial Hexagonal and Monoclinic MoTe_2 Monolayers. ACS Nano, 2017, 11, 3282-3288.	14.6	46
17	Template-free synthesis of hierarchical hollow V_2O_5 microspheres with highly stable lithium storage capacity. RSC Advances, 2017, 7, 2480-2485.	3.6	8
18	Suspended Ga_2Se_3 film and epitaxial $\text{Bi}_2\text{Se}_3(221)$ on $\text{GaSb}(001)$ by molecular-beam epitaxy. Journal of Crystal Growth, 2017, 459, 76-80.	1.5	4

#	ARTICLE	IF	CITATIONS
19	Strain in epitaxial high-index Bi ₂ Se ₃ (221) films grown by molecular-beam epitaxy. Applied Surface Science, 2017, 396, 1825-1830.	6.1	13
20	Inversion Domain Boundary Induced Stacking and Bandstructure Diversity in Bilayer MoSe ₂ . Nano Letters, 2017, 17, 6653-6660.	9.1	51
21	Ultrathin $\hat{\Gamma}^2$ -tellurium layers grown on highly oriented pyrolytic graphite by molecular-beam epitaxy. Nanoscale, 2017, 9, 15945-15948.	5.6	136
22	Multivalency-Driven Formation of Te-Based Monolayer Materials: A Combined First-Principles and Experimental study. Physical Review Letters, 2017, 119, 106101.	7.8	409
23	One-dimensional phosphorus chain and two-dimensional blue phosphorene grown on Au(111) by molecular-beam epitaxy. Physical Review Materials, 2017, 1, .	2.4	89
24	Line and Point Defects in MoSe ₂ Bilayer Studied by Scanning Tunneling Microscopy and Spectroscopy. ACS Nano, 2015, 9, 6619-6625.	14.6	73
25	An alumina stabilized graphene oxide wrapped SnO ₂ hollow sphere LIB anode with improved lithium storage. RSC Advances, 2015, 5, 100783-100789.	3.6	14
26	Long cycle life of CoMn ₂ O ₄ lithium ion battery anodes with high crystallinity. Journal of Materials Chemistry A, 2015, 3, 14759-14767.	10.3	72
27	Strain in epitaxial Bi ₂ Se ₃ grown on GaN and graphene substrates: A reflection high-energy electron diffraction study. Applied Physics Letters, 2015, 107, .	3.3	16
28	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
29	Observation of intervalley quantum interference in epitaxial monolayer tungsten diselenide. Nature Communications, 2015, 6, 8180.	12.8	55
30	Dense Network of One-Dimensional Midgap Metallic Modes in Monolayer MoSe_2 Their Spatial Undulations. Physical Review Letters, 2014, 113, 066105.	7.8	172
31	Anisotropic Topological Surface States on High-Index Bi ₂ Se ₃ Films. Advanced Materials, 2013, 25, 1557-1562.	21.0	44
32	Anomalous anisotropic magnetoresistance in topological insulator films. Nano Research, 2012, 5, 739-746.	10.4	71
33	High-field linear magneto-resistance in topological insulator Bi ₂ Se ₃ thin films. Applied Physics Letters, 2012, 100, .	3.3	104
34	Lateral in-plane coupling between graphene nanoribbons: A density functional study. Journal of Applied Physics, 2012, 111, 043714.	2.5	2
35	Interplay between topological insulators and superconductors. Physical Review B, 2012, 85, .	3.2	47
36	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

#	ARTICLE	IF	CITATIONS
37	Synthesis of tungsten oxide comblike nanostructures. Journal of Materials Research, 2008, 23, 2657-2661.	2.6	4