

# Leixin Miao

## List of Publications by Year in descending order

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20  
papers

558  
citations

1163117

8  
h-index

940533

16  
g-index

22  
all docs

22  
docs citations

22  
times ranked

1069  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatially Resolved Investigation of the Bandgap Variation across a $\text{I}^2\text{-(Al}_{x}\text{Ga}_{1-x})\text{O}_3\text{-Ga}_2\text{O}_3$ Interface by STEM-EELS. ACS Applied Electronic Materials, 2022, 4, 585-591.	3.4	2
2	$\text{SnP}_2\text{S}_6$ : A Promising Infrared Nonlinear Optical Crystal with Strong Nonresonant Second Harmonic Generation and Phase-Matchability. ACS Photonics, 2022, 9, 1724-1732.	6.6	11
3	Self-regulated growth of [111]-oriented perovskite oxide films using hybrid molecular beam epitaxy. APL Materials, 2021, 9, .	5.1	4
4	Picometer-Precision Atomic Position Tracking through Electron Microscopy. Journal of Visualized Experiments, 2021, , .	0.3	1
5	Analysis and Dynamics of Extended Atomic Defects in Coalesced $\text{WS}_2$ Monolayer Films. Microscopy and Microanalysis, 2021, 27, 1954-1955.	0.4	0
6	Impact of the Synthesis Kinetics of Entropy-stabilized Oxide Thin Films Probed with 4D-STEM and STEM-EELS. Microscopy and Microanalysis, 2021, 27, 352-354.	0.4	1
7	Illuminating Invisible Grain Boundaries in Coalesced Single-Orientation $\text{WS}_2$ Monolayer Films. Nano Letters, 2021, 21, 6487-6495.	9.1	26
8	Decoding defect ordering from ADF-STEM images of van der Waals $\text{CrGa}_2\text{Te}_7$ ferromagnetic crystals using the unsupervised machine learning algorithm. Microscopy and Microanalysis, 2021, 27, 710-711.	0.4	0
9	Formation of metal vacancy arrays in coalesced $\text{WS}_2$ monolayer films. 2D Materials, 2021, 8, 011003.	4.4	10
10	Monolayer Vanadium-Doped Tungsten Disulfide: A Room-Temperature Dilute Magnetic Semiconductor. Advanced Science, 2020, 7, 2001174.	11.2	104
11	Modeling for Structural Engineering and Synthesis of Two-Dimensional $\text{WSe}_2$ Using a Newly Developed ReaxFF Reactive Force Field. Journal of Physical Chemistry C, 2020, 124, 28285-28297.	3.1	20
12	Giant room temperature anomalous Hall effect and tunable topology in a ferromagnetic topological semimetal $\text{Co}_2\text{MnAl}$ . Nature Communications, 2020, 11, 3476.	12.8	127
13	Property and cation valence engineering in entropy-stabilized oxide thin films. Physical Review Materials, 2020, 4, .	2.4	20
14	mpfit: a robust method for fitting atomic resolution images with multiple Gaussian peaks. Advanced Structural and Chemical Imaging, 2020, 6, .	4.0	18
15	Investigation of the Atomic and Electronic Structure of $\text{I}^2\text{-(Al}_{0.2}\text{Ga}_{0.8})\text{O}_3$ Alloys by STEM-EELS. Microscopy and Microanalysis, 2019, 25, 2186-2187.	0.4	1
16	High Resolution S/Transmission Electron Microscopy Investigation of $\text{Ca}_3\text{Mn}_2\text{O}_7$ Phase Transformation under In-situ Heating Condition. Microscopy and Microanalysis, 2019, 25, 1876-1877.	0.4	0
17	Atomic-scale measurement of polar entropy. Physical Review B, 2019, 100, .	3.2	7
18	Spin scattering and noncollinear spin structure-induced intrinsic anomalous Hall effect in antiferromagnetic topological insulator $\text{MnBi}_2\text{T}_4$ . Physical	3.6	204

#	ARTICLE	IF	CITATIONS
19	High Resolution S/TEM Imaging of High Density Domain Stacking and Coexisting Polar-nonpolar Phases in Layered Perovskite Ca <sub>3</sub> Mn <sub>2</sub> O <sub>7</sub> . Microscopy and Microanalysis, 2018, 24, 1916-1917.	0.4	0
20	Statistical Measurement of Polar Displacements in Complex Oxides. Microscopy and Microanalysis, 2017, 23, 1660-1661.	0.4	0