

Renliang Yuan

List of Publications by Year in descending order

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papers

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1040056

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citing authors

#	ARTICLE	IF	CITATIONS
1	Data-driven electron microscopy: electron diffraction imaging of materials structural properties. <i>Microscopy (Oxford, England)</i> , 2022, 71, i116-i131.	1.5	11
2	Early stages of liquid-metal embrittlement in an advanced high-strength steel. <i>Materials Today Advances</i> , 2022, 13, 100196.	5.2	7
3	Cepstral scanning transmission electron microscopy imaging of severe lattice distortions. <i>Ultramicroscopy</i> , 2021, 231, 113252.	1.9	9
4	Ultralow Thermal Conductivity in Nanoporous Crystalline Fe ₃ O ₄ . <i>Journal of Physical Chemistry C</i> , 2021, 125, 6897-6908.	3.1	12
5	Training artificial neural networks for precision orientation and strain mapping using 4D electron diffraction datasets. <i>Ultramicroscopy</i> , 2021, 231, 113256.	1.9	18
6	Comparing different software packages for the mapping of strain from scanning precession diffraction data. <i>Microscopy and Microanalysis</i> , 2021, 27, 2-5.	0.4	3
7	Machine Learning Based Precision Orientation and Strain Mapping from 4D Diffraction Datasets. <i>Microscopy and Microanalysis</i> , 2021, 27, 1276-1278.	0.4	0
8	Antimony segregation in an InAs/InAs _{1-x} Sbx superlattice grown by metalorganic chemical vapor deposition. <i>Journal of Applied Physics</i> , 2021, 130, 095302.	2.5	1
9	Imaging Lattice Distortions in High Entropy Alloys at Multiple Length Scales Using Electron Nanodiffraction and 4D-STEM. <i>Microscopy and Microanalysis</i> , 2020, 26, 978-980.	0.4	0
10	Determination of Crystallinity in Li _{1-x} Mg _x Mn ₂ O ₄ Nanocrystals Based on Diffraction Patterns Correlation Analysis and Strain Mapping. <i>Microscopy and Microanalysis</i> , 2019, 25, 1972-1973.	0.4	1
11	Lattice strain mapping using circular Hough transform for electron diffraction disk detection. <i>Ultramicroscopy</i> , 2019, 207, 112837.	1.9	24
12	Shear-band structure and chemistry in a Zr-based metallic glass probed with nano-beam x-ray fluorescence and transmission electron microscopy. <i>Scripta Materialia</i> , 2019, 169, 23-27.	5.2	17
13	Studies of x-ray localization and thickness dependence in atomic-scale elemental mapping by STEM energy-dispersive x-ray spectroscopy using single-frame scanning method. <i>Ultramicroscopy</i> , 2018, 186, 23-29.	1.9	11
14	Strain Characterization of Advanced CMOS Transistors: An Industry Perspective. <i>Microscopy and Microanalysis</i> , 2018, 24, 974-975.	0.4	1
15	Developing High Resolution and High Precision Strain Mapping Methodologies for Materials Research and Semiconductor Technology. <i>Microscopy and Microanalysis</i> , 2018, 24, 966-967.	0.4	0
16	Fast Atomic-Scale Elemental Mapping of Crystalline Materials by STEM Energy-Dispersive X-Ray Spectroscopy Achieved with Thin Specimens. <i>Microscopy and Microanalysis</i> , 2017, 23, 145-154.	0.4	4
17	Elemental and lattice-parameter mapping of binary oxide superlattices of (LaNiO ₃) ₄ /(LaMnO ₃) ₂ at atomic resolution. <i>Semiconductor Science and Technology</i> , 2017, 32, 014002.	2.0	4
18	Accurate Diffraction Peak Identification for Scanning Electron Nanodiffraction Based on Automated Image Processing and Feature Detection. <i>Microscopy and Microanalysis</i> , 2017, 23, 180-181.	0.4	3

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19	Improving Atomic-Scale Elemental Mapping Resolution of STEM-EDS through Optimizing Experimental Conditions. <i>Microscopy and Microanalysis</i> , 2017, 23, 394-395.	0.4	0
20	Fast Atomic-Scale Chemical Imaging of Crystalline Materials and Dynamic Phase Transformations. <i>Nano Letters</i> , 2016, 16, 2728-2733.	9.1	23
21	Identification and mechanical control of ferroelastic domain structure in rhombohedral $\text{CaMn}_7\text{O}_{12}$. <i>Physical Review B</i> , 2015, 91, .	3.2	9
22	Soft vibrational mode associated with incommensurate orbital order in multiferroic $\text{CaMn}_7\text{O}_{12}$. <i>Physical Review B</i> , 2014, 90, .	3.2	15