Magnus Nord

List of Publications by Year
in descending order

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38	880	430874	477307
papers	citations	18	29
		h-index	g-index

41	41	41	1706
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Atomap: a new software tool for the automated analysis of atomic resolution images using two-dimensional Gaussian fitting. Advanced Structural and Chemical Imaging, 2017, 3, 9.	4.0	159
2	Electron Microscopy (Big and Small) Data Analysis With the Open Source Software Package HyperSpy. Microscopy and Microanalysis, 2017, 23, 214-215.	0.4	74
3	Silicon-core glass fibres as microwire radial-junction solar cells. Scientific Reports, 2014, 4, 6283.	3.3	52
4	Optimising multi-frame ADF-STEM for high-precision atomic-resolution strain mapping. Ultramicroscopy, 2017, 179, 57-62.	1.9	46
5	Characterisation of amorphous molybdenum silicide (MoSi) superconducting thin films and nanowires. Superconductor Science and Technology, 2017, 30, 084010.	3.5	45
6	The corrosion of Zr(Fe, Cr)2 and Zr2Fe secondary phase particles in Zircaloy-4 under 350 Â°C pressurised water conditions. Corrosion Science, 2017, 128, 213-223.	6.6	44
7	Structural phases driven by oxygen vacancies at the La0.7Sr0.3MnO3/SrTiO3 hetero-interface. Applied Physics Letters, 2015, 106, .	3.3	42
8	Fast Pixelated Detectors in Scanning Transmission Electron Microscopy. Part I: Data Acquisition, Live Processing, and Storage. Microscopy and Microanalysis, 2020, 26, 653-666.	0.4	39
9	Effect of Polar (111)-Oriented SrTiO₃ on Initial Perovskite Growth. Crystal Growth and Design, 2016, 16, 2357-2362.	3.0	32
10	Novel class of nanostructured metallic glass films with superior and tunable mechanical properties. Acta Materialia, 2021, 213, 116955.	7.9	32
11	Surface stability of epitaxial La0.7Sr0.3MnO3 thin films on (111)-oriented SrTiO3. Journal of Applied Physics, 2013, 113, .	2.5	31
12	Strain Anisotropy and Magnetic Domains in Embedded Nanomagnets. Small, 2019, 15, e1904738.	10.0	30
13	Order and disorder in the magnetization of the chiral crystal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">CrNb</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:mn>6</mml:mn></mml:msub></mml:math>. Physical Review B,	3.2	27
14	Concurrent magnetic and structural reconstructions at the interface of (111)-oriented <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">L</mml:mi><mml:msub><mml:mi mathvariant="normal">a</mml:mi><mml:mrow><mml:mn>0.7</mml:mn></mml:mrow></mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:msub><mml:mi mathvariant="normal">r</mml:mi><mml:mrow><mml:mn>0.3</mml:mn></mml:mrow></mml:msub><mml:mi>Mn</mml:mi><mml:msu	3.2	26
15	LiberTEM: Software platform for scalable multidimensional data processing in transmission electron microscopy. Journal of Open Source Software, 2020, 5, 2006.	4.6	26
16	Fast Pixelated Detectors in Scanning Transmission Electron Microscopy. Part II: Post-Acquisition Data Processing, Visualization, and Structural Characterization. Microscopy and Microanalysis, 2020, 26, 944-963.	0.4	24
17	Electrochemical reduction of CO2 to synthesis gas on CNT supported CuxZn1-x O catalysts. Catalysis Today, 2020, 357, 311-321.	4.4	22
18	Vanadium Substitution in Li₂MnSiO₄/C as Positive Electrode for Li Ion Batteries. Journal of Physical Chemistry C, 2016, 120, 11359-11371.	3.1	20

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19	Assessing electron beam sensitivity for SrTiO3 and La0.7Sr0.3MnO3 using electron energy loss spectroscopy. Ultramicroscopy, 2016, 169, 98-106.	1.9	17
20	Quantitative strain analysis of InAs/GaAs quantum dot materials. Scientific Reports, 2017, 7, 45376.	3.3	17
21	Three-dimensional subnanoscale imaging of unit cell doubling due to octahedral tilting and cation modulation in strained perovskite thin films. Physical Review Materials, 2019, 3, .	2.4	12
22	Evaluation of different rectangular scan strategies for STEM imaging. Ultramicroscopy, 2020, 215, 113021.	1.9	10
23	In-plane structural order of domain engineered La_{0.7}Sr_{0.3}MnO₃thin films. Philosophical Magazine, 2013, 93, 1549-1562.	1.6	9
24	Structural investigation of epitaxial LaFeO₃thin films on (111) oriented SrTiO₃by transmission electron microscopy. Journal of Physics: Conference Series, 2015, 644, 012002.	0.4	9
25	Liftout of High-Quality Thin Sections of a Perovskite Oxide Thin Film Using a Xenon Plasma Focused Ion Beam Microscope. Microscopy and Microanalysis, 2019, 25, 115-118.	0.4	8
26	Magnetic domain configuration of (111)-oriented LaFeO3 epitaxial thin films. APL Materials, 2017, 5, .	5.1	7
27	Characterisation of a High-Power Impulse Magnetron Sputtered C/Mo/W wear resistant coating by transmission electron microscopy. Surface and Coatings Technology, 2019, 377, 124853.	4.8	4
28	Atomic resolution HOLZ-STEM imaging of atom position modulation in oxide heterostructures. Ultramicroscopy, 2021, 226, 113296.	1.9	4
29	Developing Rapid and Advanced Visualisation of Magnetic Structures Using 2-D Pixelated STEM Detectors. Microscopy and Microanalysis, 2016, 22, 530-531.	0.4	3
30	Strategy for reliable strain measurement in InAs/GaAs materials from high-resolution Z-contrast STEM images. Journal of Physics: Conference Series, 2017, 902, 012021.	0.4	2
31	Open Source Development Tools for Robust and Reproducible Electron Microscopy Data Analysis. Microscopy and Microanalysis, 2019, 25, 138-139.	0.4	2
32	Towards Mapping Perovskite Oxide 3-D Structure Using Two-Dimensional Pixelated STEM Detector. Microscopy and Microanalysis, 2016, 22, 476-477.	0.4	1
33	Atomap - Automated Analysis of Atomic Resolution STEM Images. Microscopy and Microanalysis, 2017, 23, 426-427.	0.4	1
34	Imaging Structure and Magnetisation in New Ways Using 4D STEM. Microscopy and Microanalysis, 2018, 24, 180-181.	0.4	1
35	Nanomagnets: Strain Anisotropy and Magnetic Domains in Embedded Nanomagnets (Small 52/2019). Small, 2019, 15, 1970287.	10.0	1
36	Materials Development Aided by Atomic-Resolution Electron Microscopy. Microscopy and Microanalysis, 2015, 21, 1515-1516.	0.4	0

#	Article	IF	Citations
37	Methodology to Improve Strain Measurement in III-V Semiconductors Materials. Microscopy and Microanalysis, 2017, 23, 1416-1417.	0.4	0
38	Towards Reproducible and Transparent Science of (Big) Electron Microscopy Data Using Version Control. Microscopy and Microanalysis, 2019, 25, 232-233.	0.4	0