

Tim Grieb

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

825
citations

471509

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501196

28
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all docs

35
docs citations

35
times ranked

1012
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards the interpretation of a shift of the central beam in nano-beam electron diffraction as a change in mean inner potential. <i>Ultramicroscopy</i> , 2022, 236, 113503.	1.9	6
2	Angle-dependence of ADF-STEM intensities for chemical analysis of InGaN/GaN. <i>Ultramicroscopy</i> , 2022, 238, 113535.	1.9	4
3	Angle-resolved STEM using an iris aperture: Scattering contributions and sources of error for the quantitative analysis in Si. <i>Ultramicroscopy</i> , 2021, 221, 113175.	1.9	8
4	Accurate measurement of strain at interfaces in 4D-STEM: A comparison of various methods. <i>Ultramicroscopy</i> , 2021, 221, 113196.	1.9	10
5	Quantitative Characterization of Nanometer-Scale Electric Fields via Momentum-Resolved STEM. <i>Nano Letters</i> , 2021, 21, 2018-2025.	9.1	20
6	Accuracy and precision of position determination in ISTEM imaging of BaTiO ₃ . <i>Ultramicroscopy</i> , 2021, 227, 113325.	1.9	2
7	Quantitative characterization of nanometer-scale electric fields via momentum-resolved STEM. <i>Microscopy and Microanalysis</i> , 2021, 27, 2206-2207.	0.4	0
8	4D-STEM at interfaces to GaN: Centre-of-mass approach & NBED-disc detection. <i>Ultramicroscopy</i> , 2021, 228, 113321.	1.9	9
9	Influence of plasmon excitations on atomic-resolution quantitative 4D scanning transmission electron microscopy. <i>Scientific Reports</i> , 2020, 10, 17890.	3.3	21
10	Electrical Polarization in AlN/GaN Nanodisks Measured by Momentum-Resolved 4D Scanning Transmission Electron Microscopy. <i>Physical Review Letters</i> , 2019, 122, 106102.	7.8	31
11	Influence of distortions of recorded diffraction patterns on strain analysis by nano-beam electron diffraction. <i>Ultramicroscopy</i> , 2019, 196, 74-82.	1.9	15
12	Ultrathin Au-Alloy Nanowires at the Liquid-Liquid Interface. <i>Nano Letters</i> , 2018, 18, 1903-1907.	9.1	31
13	Using molecular dynamics for multislice TEM simulation of thermal diffuse scattering in AlGaN. <i>Ultramicroscopy</i> , 2018, 189, 124-135.	1.9	16
14	Quantitative HAADF STEM of SiGe in presence of amorphous surface layers from FIB preparation. <i>Ultramicroscopy</i> , 2018, 184, 29-36.	1.9	17
15	Measurement of local crystal lattice strain variations in dealloyed nanoporous gold. <i>Materials Research Letters</i> , 2018, 6, 84-92.	8.7	10
16	Strain analysis from nano-beam electron diffraction: Influence of specimen tilt and beam convergence. <i>Ultramicroscopy</i> , 2018, 190, 45-57.	1.9	17
17	Optimization of NBED simulations for disc-detection measurements. <i>Ultramicroscopy</i> , 2017, 181, 50-60.	1.9	13
18	Screening Precursor-Solvent Combinations for Li ₄ Ti ₅ O ₁₂ Energy Storage Material Using Flame Spray Pyrolysis. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 37760-37777.	8.0	68

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19	Bias-Controlled Optical Transitions in GaN/AlN Nanowire Heterostructures. ACS Nano, 2017, 11, 8758-8767.	14.6	10
20	Measurement of atomic electric fields and charge densities from average momentum transfers using scanning transmission electron microscopy. Ultramicroscopy, 2017, 178, 62-80.	1.9	106
21	Direct Measurement of Polarization-Induced Fields in GaN/AlN by Nano-Beam Electron Diffraction. Scientific Reports, 2016, 6, 28459.	3.3	25
22	Materials characterisation by angle-resolved scanning transmission electron microscopy. Scientific Reports, 2016, 6, 37146.	3.3	33
23	Effects of instrument imperfections on quantitative scanning transmission electron microscopy. Ultramicroscopy, 2016, 161, 146-160.	1.9	55
24	Theoretical study of precision and accuracy of strain analysis by nano-beam electron diffraction. Ultramicroscopy, 2015, 158, 38-48.	1.9	43
25	Simultaneous Quantification of Indium and Nitrogen Concentration in InGaNs Using HAADF-STEM. Microscopy and Microanalysis, 2014, 20, 1740-1752.	0.4	20
26	Coherently Embedded Ag Nanostructures in Si: 3D Imaging and their application to SERS. Scientific Reports, 2014, 4, 4633.	3.3	19
27	Synthesis Route for the Self-Assembly of Submicrometer-Sized Colloidosomes with Tailorable Nanopores. Chemistry of Materials, 2013, 25, 3464-3471.	6.7	47
28	A critical study: Assessment of the effect of silica particles from 15 to 500Ånm on bacterial viability. Environmental Pollution, 2013, 176, 292-299.	7.5	24
29	Quantitative chemical evaluation of dilute GaNs using ADF STEM: Avoiding surface strain induced artifacts. Ultramicroscopy, 2013, 129, 1-9.	1.9	29
30	Determination of the chemical composition of GaNs using STEM HAADF imaging and STEM strain state analysis. Ultramicroscopy, 2012, 117, 15-23.	1.9	79