

Christian Dwyer

List of Publications by Year in descending order

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Version: 2024-02-01

33
papers

935
citations

623734

14
h-index

580821

25
g-index

37
all docs

37
docs citations

37
times ranked

1356
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure and energetics of the coherent interface between the Al_2Cu precipitate phase and aluminium in Al-Cu . <i>Acta Materialia</i> , 2011, 59, 7043-7050.	7.9	176
2	The magic thicknesses of Al_2Cu precipitates in Sn-microalloyed Al-Cu . <i>Acta Materialia</i> , 2012, 60, 633-644.	7.9	124
3	Imaging Beam-Sensitive Materials by Electron Microscopy. <i>Advanced Materials</i> , 2020, 32, e1907619.	21.0	104
4	Elemental mapping at the atomic scale using low accelerating voltages. <i>Ultramicroscopy</i> , 2010, 110, 926-934.	1.9	87
5	Three-dimensional organization of rare-earth atoms at grain boundaries in silicon nitride. <i>Applied Physics Letters</i> , 2005, 87, 061911.	3.3	62
6	Stability of Crystal Facets in Gold Nanorods. <i>Nano Letters</i> , 2015, 15, 1635-1641.	9.1	48
7	Efficient Atomic-Scale Kinetics through a Complex Heterophase Interface. <i>Physical Review Letters</i> , 2013, 111, 046102.	7.8	42
8	Method to measure spatial coherence of subangstrom electron beams. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	41
9	Performance of a direct detection camera for off-axis electron holography. <i>Ultramicroscopy</i> , 2016, 161, 90-97.	1.9	36
10	Crossover of Charge Fluctuations across the Strange Metal Phase Diagram. <i>Physical Review X</i> , 2019, 9, .	8.9	34
11	Dynamic self-assembly of detonation nanodiamond in water. <i>Nanoscale</i> , 2020, 12, 5363-5367.	5.6	34
12	Counting vacancies and nitrogen-vacancy centers in detonation nanodiamond. <i>Nanoscale</i> , 2016, 8, 10548-10552.	5.6	33
13	Direct mapping of Li-enabled octahedral tilt-ordering and associated strain in nanostructured A -perovskites. <i>Nature Materials</i> , 2015, 14, 1142-1149.	27.5	27
14	Rapid Measurement of Nanoparticle Thickness Profiles. <i>Ultramicroscopy</i> , 2013, 124, 61-70.	1.9	24
15	Prospects for quantitative and time-resolved double and continuous exposure off-axis electron holography. <i>Ultramicroscopy</i> , 2017, 178, 48-61.	1.9	12
16	Revealing Atomic Structure and Oxidation States of Dopants in Charge-Ordered Nanoparticles for Migration-Promoted Oxygen-Exchange Capacity. <i>Chemistry of Materials</i> , 2019, 31, 5769-5777.	6.7	10
17	Direct Formation of 2D- MnO_x under Conditions of Water Oxidation Catalysis. <i>ACS Applied Nano Materials</i> , 2018, 1, 1603-1611.	5.0	9
18	Inpainting Versus Denoising for Dose Reduction in Scanning-Beam Microscopies. <i>IEEE Transactions on Image Processing</i> , 2020, 29, 351-359.	9.8	7

#	ARTICLE	IF	CITATIONS
19	Quantitative annular dark-field imaging in the scanning transmission electron microscope—a review. <i>JPhys Materials</i> , 2021, 4, 042006.	4.2	7
20	Subsampling and inpainting approaches for electron tomography. <i>Ultramicroscopy</i> , 2017, 182, 292-302.	1.9	6
21	Prospects for detecting individual defect centers using spatially resolved electron energy loss spectroscopy. <i>Physical Review B</i> , 2019, 100, .	3.2	5
22	Atomic and Electronic Structures of Functionalized Nanodiamond Particles. <i>Microscopy and Microanalysis</i> , 2017, 23, 2270-2271.	0.4	2
23	Dipole Scattering and Its Implications for Vibrational Mapping at Lattice Resolution. <i>Microscopy and Microanalysis</i> , 2018, 24, 410-411.	0.4	2
24	Surface and Point Defect Measurements of Detonation Nanodiamond using Combined Cs-Cc corrected TEM and ab initio Calculations. <i>Microscopy and Microanalysis</i> , 2016, 22, 1392-1393.	0.4	1
25	Inpainting Versus Denoising for Dose Reduction in STEM. <i>Microscopy and Microanalysis</i> , 2018, 24, 482-483.	0.4	1
26	Making every electron count: materials characterization by quantitative analytical scanning transmission electron microscopy. <i>Microscopy and Microanalysis</i> , 2016, 22, 1430-1431.	0.4	0
27	Quantification and Sensible Correction for Energy-Loss- and Thickness-Dependent Contrast Complications in Atomic-Scale Electron Energy-Loss Spectroscopy. <i>Microscopy and Microanalysis</i> , 2016, 22, 886-887.	0.4	0
28	Multidisciplinary Approach to Nanostructure Determination. <i>Microscopy and Microanalysis</i> , 2016, 22, 1426-1427.	0.4	0
29	Measurement of N-V Centers in Nanodiamond Particles using Advanced (S)TEM. <i>Microscopy and Microanalysis</i> , 2018, 24, 1664-1665.	0.4	0
30	Harnessing Shape Effects for Adsorbate Signal Enhancement in Vibrational EELS. <i>Microscopy and Microanalysis</i> , 2019, 25, 608-609.	0.4	0
31	Aggregation Behavior of Detonation Nanodiamond in Solution. <i>Microscopy and Microanalysis</i> , 2019, 25, 1740-1741.	0.4	0
32	Theory for High Energy Resolution EELS of Vibrational and Defect States. <i>Microscopy and Microanalysis</i> , 2019, 25, 616-617.	0.4	0
33	Prospects for Spatially-Resolved EELS of Atomic Point Defects. <i>Microscopy and Microanalysis</i> , 2019, 25, 594-595.	0.4	0