

Christoph Koch

List of Publications by Year in descending order

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162
papers

2,891
citations

159358

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h-index

223531

46
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179
all docs

179
docs citations

179
times ranked

3323
citing authors

#	ARTICLE	IF	CITATIONS
1	From Fully Strained to Relaxed: Epitaxial Ferroelectric Al _{1-x} Sc _x N for III [∞] N Technology. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	24
2	A consistent picture of excitations in cubic BaSnO ₃ revealed by combining theory and experiment. <i>Communications Materials</i> , 2022, 3, .	2.9	10
3	Large Area Ultrathin InN and Tin Doped InN Nanosheets Featuring 2D Electron Gases. <i>ACS Nano</i> , 2022, 16, 5476-5486.	7.3	8
4	Surface-Functionalized Au@Pd Nanorods with Enhanced Photothermal Conversion and Catalytic Performance. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 17259-17272.	4.0	11
5	FAIR data enabling new horizons for materials research. <i>Nature</i> , 2022, 604, 635-642.	13.7	81
6	Charge-Trapping-Induced Compensation of the Ferroelectric Polarization in FTJs: Optimal Conditions for a Synaptic Device Operation. <i>IEEE Transactions on Electron Devices</i> , 2022, 69, 3694-3699.	1.6	10
7	High-Resolution Mapping of Strain Partitioning and Relaxation in InGaN/GaN Nanowire Heterostructures. <i>Advanced Science</i> , 2022, 9, .	5.6	12
8	A Three-Dimensional Reconstruction Algorithm for Scanning Transmission Electron Microscopy Data from a Single Sample Orientation. <i>Microscopy and Microanalysis</i> , 2022, 28, 1632-1640.	0.2	6
9	Poly(ionic liquid) Nanovesicle-Templated Carbon Nanocapsules Functionalized with Uniform Iron Nitride Nanoparticles as Catalytic Sulfur Host for Li-S Batteries. <i>ACS Nano</i> , 2022, 16, 10554-10565.	7.3	18
10	Self-Assembly of Plasmonic Nanoantenna@Waveguide Structures for Subdiffractional Chiral Sensing. <i>ACS Nano</i> , 2021, 15, 351-361.	7.3	20
11	Analysis of Local Charges at Hetero-interfaces by Electron Holography – A Comparative Study of Different Techniques. <i>Ultramicroscopy</i> , 2021, 231, 113236.	0.8	4
12	Raman shifts in MBE-grown Si _x Ge _{1-x} alloys with large Si content. <i>Journal of Raman Spectroscopy</i> , 2021, 52, 1167-1175.	1.2	2
13	Quantifying the data quality of focal series for inline electron holography. <i>Ultramicroscopy</i> , 2021, 231, 113264.	0.8	1
14	High-Fidelity 4D-STEM Enabled by Live Processing at 15,000 Detector Frames Per Second. <i>Microscopy and Microanalysis</i> , 2021, 27, 994-997.	0.2	7
15	Improving 4DSTEM measurements of atomic charge and electrostatic potential via energy filtration. <i>Microscopy and Microanalysis</i> , 2021, 27, 1450-1452.	0.2	1
16	Adaptive Scanning in Ptychography through Deep Reinforcement Learning. <i>Microscopy and Microanalysis</i> , 2021, 27, 818-821.	0.2	2
17	5D-STEM: Live processing and display at 15,000 diffraction patterns per second. <i>Microscopy and Microanalysis</i> , 2021, 27, 1064-1065.	0.2	4
18	Atomic scale confirmation of ferroelectric polarization inversion in wurtzite-type AlScN. <i>Journal of Applied Physics</i> , 2021, 129, .	1.1	46

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19	High- <i>k</i> 2D Sb ₂ O ₃ Made Using a Substrate-Independent and Low-Temperature Liquid-Metal-Based Process. ACS Nano, 2021, 15, 16067-16075.	7.3	24
20	Kinetic Study on the Adsorption of 2,3,5,6-Tetrafluoro-7,7,8,8-tetracyanoquinodimethane on Ag Nanoparticles in Chloroform: Implications for the Charge Transfer Complex of Ag ⁺ F ₄ TCNQ. ACS Applied Nano Materials, 2021, 4, 11625-11635.	2.4	2
21	Influence of Silicon Layers on the Growth of ITO and AZO in Silicon Heterojunction Solar Cells. IEEE Journal of Photovoltaics, 2020, 10, 703-709.	1.5	31
22	Damage-free Analysis of Biological Materials by Vibrational Spectroscopy in the EM. Microscopy and Microanalysis, 2020, 26, 108-110.	0.2	1
23	Angle-Resolved Electron Energy Loss Spectroscopy. Microscopy and Microanalysis, 2020, 26, 964-965.	0.2	7
24	Comparison of Ptychography vs. Center-of-mass Analysis of Registered 4D-STEM Series. Microscopy and Microanalysis, 2020, 26, 1898-1900.	0.2	4
25	Streamlining Processing and Utilization of EM Data - An Efficient Open-source Solution. Microscopy and Microanalysis, 2020, 26, 2946-2948.	0.2	0
26	In Situ TEM Monitoring of Phase-Segregation in Inorganic Mixed Halide Perovskite. Journal of Physical Chemistry Letters, 2020, 11, 4945-4950.	2.1	29
27	Step-by-step synthesis of copper(I) complex supported on platinum nanoparticle-decorated mesoporous silica hollow spheres and its remarkable catalytic performance in Sonogashira coupling reaction. Applied Organometallic Chemistry, 2020, 34, e5645.	1.7	13
28	Individual tubular J-aggregates stabilized and stiffened by silica encapsulation. Colloid and Polymer Science, 2020, 298, 937-950.	1.0	4
29	Metal-Assisted and Solvent-Mediated Synthesis of Two-Dimensional Triazine Structures on Gram Scale. Journal of the American Chemical Society, 2020, 142, 12976-12986.	6.6	21
30	Multi-resolution convolutional neural networks for inverse problems. Scientific Reports, 2020, 10, 5730.	1.6	17
31	Overcoming information reduced data and experimentally uncertain parameters in ptychography with regularized optimization. Optics Express, 2020, 28, 28306.	1.7	24
32	Composition analysis and transition energies of ultrathin Sn-rich GeSn quantum wells. Physical Review Materials, 2020, 4, .	0.9	10
33	Features of Our SEM Transmission Diffraction Sub-stage with 6-axis Sample Control and a Camera with Variable Camera Length. Microscopy and Microanalysis, 2020, 26, 1906-1907.	0.2	1
34	Investigation of the electrostatic potential of a grain boundary in Y-substituted BaZrO ₃ using inline electron holography. Physical Chemistry Chemical Physics, 2019, 21, 17662-17672.	1.3	10
35	Spatial Phase Distributions in Solution-Based and Evaporated Cs ⁺ Pb ²⁺ Br Thin Films. Journal of Physical Chemistry C, 2019, 123, 17666-17677.	1.5	16
36	Gold- and Silver-Coated Barium Titanate Nanocomposites as Probes for Two-Photon Multimodal Microspectroscopy. Advanced Functional Materials, 2019, 29, 1904289.	7.8	22

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37	Extra half-plane shortening of dislocations as an origin of tensile strain in Si-doped (Al)GaN. Journal of Applied Physics, 2019, 126, .	1.1	8
38	Direct Observation of Field-induced Modulation of Two-dimensional Electron Gas at Oxide Interfaces. Microscopy and Microanalysis, 2019, 25, 1848-1849.	0.2	0
39	Design and application of a relativistic Kramersâ€Kronig analysis algorithm. Ultramicroscopy, 2019, 206, 112825.	0.8	3
40	Various Compressed Sensing Setups Evaluated Against Shannon Sampling Under Constraint of Constant Illumination. IEEE Transactions on Computational Imaging, 2019, 5, 502-514.	2.6	8
41	Pulsed thermal deposition of binary and ternary transition metal dichalcogenide monolayers and heterostructures. Applied Physics Letters, 2019, 114, .	1.5	14
42	Silver nanowires with optimized silica coating as versatile plasmonic resonators. Scientific Reports, 2019, 9, 3859.	1.6	29
43	Removal of supporting amorphous carbon film induced artefact from measured strain variation within a nanoparticle. Ultramicroscopy, 2019, 199, 70-80.	0.8	10
44	Stationary beam full-field transmission helium ion microscopy using sub-50 keV He⁺: Projected images and intensity patterns. Beilstein Journal of Nanotechnology, 2019, 10, 1648-1657.	1.5	10
45	Direct imaging of the electron liquid at oxide interfaces. Nature Nanotechnology, 2018, 13, 198-203.	15.6	40
46	Neural-network-based depth-resolved multiscale structural optimization using density functional theory and electron diffraction data. Physical Review B, 2018, 97, .	1.1	11
47	Strain-induced indium clustering in non-polar a-plane InGaN quantum wells. Acta Materialia, 2018, 145, 109-122.	3.8	7
48	Correlative Microscopy Characterization of Cesium-Lead-Bromide Thin-films. , 2018, , .		0
49	Energy Transfer between Cyanoâ€Ether PPV and InGaN/GaN Quantum Wells with Large Piezoelectric Fields. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1800322.	0.8	0
50	Multi-focus TIE algorithm including partial spatial coherence and overlapping filters. Optics Express, 2018, 26, 11819.	1.7	6
51	Microstructure and Elastic Constants of Transition Metal Dichalcogenide Monolayers from Friction and Shear Force Microscopy. Advanced Materials, 2018, 30, e1803748.	11.1	16
52	TEM-based analysis of the crystal structure of a Ge-rich layer sandwiched between spintronic Fe ₃ Si. Acta Crystallographica Section A: Foundations and Advances, 2018, 74, e311-e311.	0.0	0
53	Retrieving Atomic Structure from Dynamical Rocking Curve Measurements in both Real and Reciprocal Space. Microscopy and Microanalysis, 2016, 22, 920-921.	0.2	0
54	Inline electron holography and VEELS for the measurement of strain in ternary and quaternary (In,Al,Ga)N alloyed thin films and its effect on bandgap energy. Journal of Microscopy, 2016, 261, 27-35.	0.8	3

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55	Gradient flipping algorithm: introducing non-convex constraints in wavefront reconstructions with the transport of intensity equation. Optics Express, 2016, 24, 8344.	1.7	5
56	Atomic signatures of local environment from core-level spectroscopy in O^{2+} . Physical Review B, 2016, 94, .	1.1	28
57	Inverse dynamical photon scattering (IDPS): an artificial neural network based algorithm for three-dimensional quantitative imaging in optical microscopy. Optics Express, 2016, 24, 7006.	1.7	11
58	Inversion of Dynamical Scattering from Large-Angle Rocking-Beam Electron Diffraction Patterns. Physical Review Letters, 2016, 117, 015501.	2.9	9
59	Wedge Dyakonov Waves and Dyakonov Plasmons in Topological Insulator Bi_2Se_3 Probed by Electron Beams. ACS Nano, 2016, 10, 6988-6994.	7.3	43
60	Mapping the electrostatic potential of Au nanoparticles using hybrid electron holography. Ultramicroscopy, 2016, 165, 8-14.	0.8	9
61	Recovering low spatial frequencies in wavefront sensing based on intensity measurements. Advanced Structural and Chemical Imaging, 2016, 2, .	4.0	7
62	Electron Holography: Correlative High-Resolution Mapping of Strain and Charge Density in a Strained Piezoelectric Multilayer (Adv. Mater. Interfaces 1/2015). Advanced Materials Interfaces, 2015, 2, .	1.9	3
63	Quantitative Analysis of HAADF-STEM Images of MoVTaO M1 Phase Catalyst for Propane Ammoxidation to Acrylonitrile. ChemCatChem, 2015, 7, 3731-3737.	1.8	13
64	Real-Space Simulation of Electron Scattering in Imperfect Crystals and Reconstruction of the Electrostatic Potential. Microscopy and Microanalysis, 2015, 21, 1883-1884.	0.2	0
65	Unconventional Surface Plasmon Excitations in Bi_2Se_3 . Microscopy and Microanalysis, 2015, 21, 2057-2058.	0.2	0
66	Hybrid Electron Holography. Microscopy and Microanalysis, 2015, 21, 2311-2312.	0.2	0
67	Direct mapping of strain state in nonpolar InGaN/GaN multilayers using dark-field inline electron holography. , 2015, , .		0
68	Correlative High-Resolution Mapping of Strain and Charge Density in a Strained Piezoelectric Multilayer. Advanced Materials Interfaces, 2015, 2, 1400281.	1.9	18
69	Simultaneous orientation and thickness mapping in transmission electron microscopy. Ultramicroscopy, 2015, 150, 37-43.	0.8	4
70	Two-dimensional misorientation mapping by rocking dark-field transmission electron microscopy. Ultramicroscopy, 2015, 159, 26-33.	0.8	2
71	A practical way to resolve ambiguities in wavefront reconstructions by the transport of intensity equation. Ultramicroscopy, 2015, 154, 1-6.	0.8	9
72	A three-dimensional polarization domain retrieval method from electron diffraction data. Ultramicroscopy, 2015, 155, 42-48.	0.8	11

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73	FDES, a GPU-based multislice algorithm with increased efficiency of the computation of the projected potential. Ultramicroscopy, 2015, 158, 89-97.	0.8	26
74	Retrieving depth-direction information from TEM diffraction data under reciprocal-space sampling variation. Ultramicroscopy, 2015, 148, 105-114.	0.8	8
75	Hybridization of Off-Axis and In-line High-Resolution Electron Holography. Microscopy and Microanalysis, 2014, 20, 272-273.	0.2	0
76	Origins of electrostatic potential wells at dislocations in polycrystalline Cu(In,Ga)Se ₂ thin films. Journal of Applied Physics, 2014, 115, .	1.1	22
77	Third-dimension information retrieval from a single convergent-beam transmission electron diffraction pattern using an artificial neural network. Physical Review B, 2014, 89, .	1.1	18
78	Strain mapping for advanced CMOS technologies. Crystal Research and Technology, 2014, 49, 38-42.	0.6	4
79	Stacked-Bloch-wave electron diffraction simulations using GPU acceleration. Ultramicroscopy, 2014, 141, 32-37.	0.8	21
80	Measuring three-dimensional positions of atoms to the highest accuracy with electrons. Comptes Rendus Physique, 2014, 15, 119-125.	0.3	6
81	Towards full-resolution inline electron holography. Micron, 2014, 63, 69-75.	1.1	55
82	Interfaces and Extended Structural Defects in Chalcopyrite Thin-Film Solar Cells Studied by Transmission Electron Microscopy. Microscopy and Microanalysis, 2014, 20, 530-531.	0.2	0
83	Hybridization approach to in-line and off-axis (electron) holography for superior resolution and phase sensitivity. Scientific Reports, 2014, 4, 7020.	1.6	37
84	Direct Quantification of Ordering at a Solid-Liquid Interface Using Aberration Corrected Transmission Electron Microscopy. Physical Review Letters, 2013, 110, 086106.	2.9	38
85	Strain mapping of LED devices by dark-field inline electron holography: Comparison between deterministic and iterative phase retrieval approaches. Ultramicroscopy, 2013, 127, 119-125.	0.8	13
86	Microstructure, chemistry, and electronic structure of natural hybrid composites in abalone shell. Micron, 2013, 48, 54-64.	1.1	22
87	Crystal Growth and Real Structure Effects of the First Weak 3D Stacked Topological Insulator Bi ₁₄ Rh ₃ I ₉ . Chemistry of Materials, 2013, 25, 2359-2364.	3.2	30
88	Evolution of order in amorphous-to-crystalline phase transformation of MgF ₂ . Journal of Applied Crystallography, 2013, 46, 1105-1116.	1.9	39
89	General framework for quantitative three-dimensional reconstruction from arbitrary detection geometries in TEM. Physical Review B, 2013, 87, .	1.1	39
90	Method for Retrieval of the Three-Dimensional Object Potential by Inversion of Dynamical Electron Scattering. Physical Review Letters, 2012, 109, 245502.	2.9	53

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91	Study of coherence strain of GP II zones in an aged aluminum composite. <i>Journal of Alloys and Compounds</i> , 2012, 536, S159-S164.	2.8	11
92	Breaking the Mode Degeneracy of Surface Plasmon Resonances in a Triangular System. <i>Langmuir</i> , 2012, 28, 8867-8873.	1.6	28
93	Linking Microstructure and Nanochemistry in Human Dental Tissues. <i>Microscopy and Microanalysis</i> , 2012, 18, 509-523.	0.2	27
94	Confined and Chemically Flexible Grain Boundaries in Polycrystalline Compound Semiconductors. <i>Advanced Energy Materials</i> , 2012, 2, 992-998.	10.2	84
95	Resonant wedge-plasmon modes in single-crystalline gold nanoplatelets. <i>Physical Review B</i> , 2011, 83, .	1.1	81
96	Hybridized Metal Slit Eigenmodes as an Illustration of Babinet's Principle. <i>ACS Nano</i> , 2011, 5, 6701-6706.	7.3	54
97	Toward quantitative core-loss EFTEM tomography. <i>Ultramicroscopy</i> , 2011, 111, 1255-1261.	0.8	20
98	J. Spence's 65th birthday. <i>Ultramicroscopy</i> , 2011, 111, iii.	0.8	0
99	Quantitative analysis of layering and in-plane structural ordering at an alumina-aluminum solid-liquid interface. <i>Acta Materialia</i> , 2011, 59, 4378-4386.	3.8	58
100	Dynamic behavior of nanometer-scale amorphous intergranular film in silicon nitride by in situ high-resolution transmission electron microscopy. <i>Journal of the European Ceramic Society</i> , 2011, 31, 1835-1840.	2.8	3
101	Aberration-compensated large-angle rocking-beam electron diffraction. <i>Ultramicroscopy</i> , 2011, 111, 828-840.	0.8	49
102	Introduction to the special issue in honor of Regents' Prof. John C.H. Spence in occasion of his 65th birthday. <i>Ultramicroscopy</i> , 2011, 111, 745-746.	0.8	0
103	Analysis of Cu(In,Ga)(S,Se) ₂ thin-film solar cells by means of electron microscopy. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 1452-1462.	3.0	35
104	Energy-filtered phase retrieval using the transport of intensity equation. <i>Applied Physics Letters</i> , 2011, 99, 221905.	1.5	6
105	The role of plasmons and interband transitions in the color of AuAl ₂ , AuIn ₂ , and AuGa ₂ . <i>Applied Physics Letters</i> , 2011, 99, 111908.	1.5	31
106	The Stuttgart Center for Electron Microscopy at the Max Planck Institute for Metals Research. <i>International Journal of Materials Research</i> , 2011, 102, 815-827.	0.1	0
107	Large-angle rocking-beam electron diffraction (LARBED). <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2011, 67, C696-C697.	0.3	0
108	An efficient, simple, and precise way to map strain with nanometer resolution in semiconductor devices. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	69

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109	Off-axis and inline electron holography: Experimental comparison. <i>Ultramicroscopy</i> , 2010, 110, 472-482.	0.8	59
110	EFTEM study of surface plasmon resonances in silver nanoholes. <i>Ultramicroscopy</i> , 2010, 110, 1094-1100.	0.8	16
111	Strain mapping along Al–Pb interfaces. <i>Acta Materialia</i> , 2010, 58, 162-172.	3.8	41
112	Determination of grain boundary potentials in ceramics: Combining impedance spectroscopy and inline electron holography. <i>International Journal of Materials Research</i> , 2010, 101, 43-49.	0.1	9
113	Correlating the structural, chemical, and optical properties at nanometer resolution. <i>Journal of Applied Physics</i> , 2010, 107, 013501.	1.1	9
114	A nondamaging electron microscopy approach to map In distribution in InGaN light-emitting diodes. <i>Journal of Applied Physics</i> , 2010, 108, .	1.1	27
115	Off-axis and inline electron holography: A quantitative comparison. <i>Ultramicroscopy</i> , 2010, 110, 460-471.	0.8	63
116	The Structure of Grain Boundaries in Strontium Titanate: Theory, Simulation, and Electron Microscopy. <i>Annual Review of Materials Research</i> , 2010, 40, 557-599.	4.3	47
117	Measuring electron scattering factors by large-angle rocking-beam electron diffraction (LARBED). <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2010, 66, s66-s66.	0.3	0
118	Grain-boundary types in chalcopyrite-type thin films and their correlations with film texture and electrical properties. <i>Thin Solid Films</i> , 2009, 517, 2545-2549.	0.8	49
119	Using dynamically scattered electrons for three-dimensional potential reconstruction. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2009, 65, 364-370.	0.3	4
120	Mapping of valence energy losses via energy-filtered annular dark-field scanning transmission electron microscopy. <i>Ultramicroscopy</i> , 2009, 109, 1164-1170.	0.8	28
121	Direct imaging of surface plasmon resonances on single triangular silver nanoprisms at optical wavelength using low-loss EFTEM imaging. <i>Optics Letters</i> , 2009, 34, 1003.	1.7	77
122	Electron energy losses in Ag nanoholes—from localized surface plasmon resonances to rings of fire. <i>Optics Letters</i> , 2009, 34, 2150.	1.7	44
123	A flux-preserving non-linear inline holography reconstruction algorithm for partially coherent electrons. <i>Ultramicroscopy</i> , 2008, 108, 141-150.	0.8	94
124	Chemical bonds in damaged and pristine low- $\hat{\rho}$ materials: A comparative EELS study. <i>Microelectronic Engineering</i> , 2008, 85, 2169-2171.	1.1	1
125	Analytical and high-resolution TEM investigation of Boron-doped CeO ₂ . , 2008, , 565-566.		0
126	Application of Monochromated Electrons in EELS. <i>Microscopy and Microanalysis</i> , 2008, 14, 134-135.	0.2	2

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127	Effect of surface orientation on intrinsic island formation on SrTiO ₃ surfaces. Journal of Physics: Conference Series, 2008, 94, 012013.	0.3	2
128	VEELS band gap measurements using monochromated electrons. Journal of Physics: Conference Series, 2008, 126, 012005.	0.3	4
129	Software Precession Electron Diffraction. , 2008, , 201-202.		2
130	Low-loss-energy EFTEM imaging of triangular silver nanoparticles. , 2008, , 243-244.		1
131	Band gap mapping using monochromated electrons. , 2008, , 381-382.		0
132	Nonlinear Electron Inline Holography. , 2008, , 263-264.		0
133	Mapping Grain Boundary Potentials by Inline Electron Holography. Microscopy and Microanalysis, 2007, 13, 334-335.	0.2	2
134	Band-gap measurements of direct and indirect semiconductors using monochromated electrons. Physical Review B, 2007, 75, .	1.1	103
135	Determination of Projected Potential Profiles Across Interfaces Using Through Focal Series Reconstruction. Microscopy and Microanalysis, 2006, 12, 1016-1017.	0.2	0
136	Requisites for Ultimate Energy Resolution EELS and Band Gap Measurements. Microscopy and Microanalysis, 2006, 12, 1148-1149.	0.2	0
137	Measuring Electrostatic Potential Profiles across Amorphous Intergranular Films by Electron Diffraction. Microscopy and Microanalysis, 2006, 12, 160-169.	0.2	4
138	Projected Potential Profiles across Intergranular Glassy Films. Journal of the Ceramic Society of Japan, 2006, 114, 1005-1012.	1.3	5
139	Aspects regarding measurement of thickness of intergranular glassy films. Journal of Microscopy, 2006, 221, 46-62.	0.8	6
140	The evolution of amorphous grain boundaries during in-situ heating experiments in Lu ²⁺ Mg doped Si ₃ N ₄ . Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 422, 92-101.	2.6	9
141	Intergranular glassy films: An overview. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 422, 3-18.	2.6	74
142	Examination of structural properties of interfaces by electron diffraction. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 422, 41-50.	2.6	3
143	Determining the radial pair-distribution function within intergranular amorphous films by numerical nanodiffraction. Ultramicroscopy, 2006, 106, 383-388.	0.8	6
144	Projected potential profiles across interfaces obtained by reconstructing the exit face wave function from through focal series. Ultramicroscopy, 2006, 106, 525-538.	0.8	34

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145	Imaging dislocation cores – the way forward. <i>Philosophical Magazine</i> , 2006, 86, 4781-4796.	0.7	27
146	SESAM: Exploring the Frontiers of Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2006, 12, 506-514.	0.2	72
147	Solving non-centrosymmetric two-dimensional crystal structures by dynamic electron diffraction. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2005, 61, 231-236.	0.3	7
148	Imaging grain boundary segregation by electron diffractive imaging. <i>International Journal of Materials Research</i> , 2005, 96, 443-447.	0.8	3
149	Iterative phase retrieval without support. <i>Optics Letters</i> , 2004, 29, 2737.	1.7	37
150	Assessing Thermodynamic Properties of Amorphous Nanostructures by Energy-Filtered Electron Diffraction. <i>Microscopy and Microanalysis</i> , 2004, 10, 254-255.	0.2	3
151	Solving the Phase Problem for Electron Diffraction of Non-Centrosymmetric Two-Dimensional Organic Crystals Using the Example of Membrane Proteins. <i>Microscopy and Microanalysis</i> , 2004, 10, 414-415.	0.2	6
152	A useful expansion of the exponential of the sum of two non-commuting matrices, one of which is diagonal. <i>Journal of Physics A</i> , 2003, 36, 803-816.	1.6	17
153	A Quantitative Nanodiffraction System for Ultrahigh Vacuum Scanning Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2003, 9, 468-474.	0.2	1
154	Numerical Nanodiffraction of Amorphous Grain Boundary Films. <i>Microscopy and Microanalysis</i> , 2003, 9, 44-45.	0.2	0
155	On the measurement of dislocation core periods by nanodiffraction. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 2001, 81, 1701-1711.	0.6	8
156	Inversion of dynamical electron scattering to obtain the crystal potential using data from two thicknesses. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2001, 57, 473-474.	0.3	14
157	Experimental evidence for dislocation core structures in silicon. <i>Scripta Materialia</i> , 2001, 45, 1273-1278.	2.6	5
158	Atomic String Holography. <i>Physical Review Letters</i> , 2001, 86, 5510-5513.	2.9	8
159	Modelling of HREM and nanodiffraction for dislocation kinks and core reconstruction. <i>Journal of Physics Condensed Matter</i> , 2000, 12, 10175-10183.	0.7	12
160	Observation of electronic Raman scattering from Mg-doped wurtzite GaN. <i>Applied Physics Letters</i> , 2000, 76, 2889-2891.	1.5	7
161	Electronic Raman Scattering from Mg-Doped Wurtzite GaN. <i>Materials Research Society Symposia Proceedings</i> , 1999, 595, 1.	0.1	0
162	Extrinsic Localized Excitons in Patterned 2D Semiconductors. <i>Advanced Functional Materials</i> , 0, , 2203060.	7.8	8