

# R E Dunin-Borkowski

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1476621/publications.pdf>

Version: 2024-02-01

598  
papers

18,651  
citations

16411

64  
h-index

24915

109  
g-index

637  
all docs

637  
docs citations

637  
times ranked

20884  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electron tomography and holography in materials science. <i>Nature Materials</i> , 2009, 8, 271-280.	13.3	761
2	In situ Observations of Catalyst Dynamics during Surface-Bound Carbon Nanotube Nucleation. <i>Nano Letters</i> , 2007, 7, 602-608.	4.5	662
3	Large-Scale Synthesis of Single-Crystalline Iron Oxide Magnetic Nanorings. <i>Journal of the American Chemical Society</i> , 2008, 130, 16968-16977.	6.6	438
4	Discrete Atom Imaging of One-Dimensional Crystals Formed Within Single-Walled Carbon Nanotubes. <i>Science</i> , 2000, 289, 1324-1326.	6.0	407
5	Magnetic Microstructure of Magnetotactic Bacteria by Electron Holography. , 1998, 282, 1868-1870.		386
6	High-yield synthesis and optical properties of g-C <sub>3</sub> N <sub>4</sub> . <i>Nanoscale</i> , 2015, 7, 12343-12350.	2.8	303
7	Ledge-flow-controlled catalyst interface dynamics during Si nanowire growth. <i>Nature Materials</i> , 2008, 7, 372-375.	13.3	248
8	Gold catalyzed growth of silicon nanowires by plasma enhanced chemical vapor deposition. <i>Journal of Applied Physics</i> , 2003, 94, 6005-6012.	1.1	247
9	Experimental observation of chiral magnetic bobbars in B20-type FeGe. <i>Nature Nanotechnology</i> , 2018, 13, 451-455.	15.6	243
10	Rh-Doped Pt@Ni Octahedral Nanoparticles: Understanding the Correlation between Elemental Distribution, Oxygen Reduction Reaction, and Shape Stability. <i>Nano Letters</i> , 2016, 16, 1719-1725.	4.5	238
11	The size distribution, imaging and obstructing properties of C60 and higher fullerenes formed within arc-grown single walled carbon nanotubes. <i>Chemical Physics Letters</i> , 2000, 316, 191-198.	1.2	192
12	Controlling the Orientation, Edge Geometry, and Thickness of Chemical Vapor Deposition Graphene. <i>ACS Nano</i> , 2013, 7, 1351-1359.	7.3	182
13	Two layer 4:4 co-ordinated KI crystals grown within single walled carbon nanotubes. <i>Chemical Physics Letters</i> , 2000, 329, 61-65.	1.2	170
14	Boosting the Thermoelectric Performance of (Na,K)-Codoped Polycrystalline SnSe by Synergistic Tailoring of the Band Structure and Atomic-Scale Defect Phonon Scattering. <i>Journal of the American Chemical Society</i> , 2017, 139, 9714-9720.	6.6	168
15	Anomalous Resistance Hysteresis in Oxide ReRAM: Oxygen Evolution and Reincorporation Revealed by In Situ TEM. <i>Advanced Materials</i> , 2017, 29, 1700212.	11.1	166
16	Direct imaging of nanoscale magnetic interactions in minerals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 16556-16561.	3.3	165
17	Quantitative Electron Holography of Biased Semiconductor Devices. <i>Physical Review Letters</i> , 2002, 88, 238302.	2.9	160
18	Flux Closure in Self-Assembled Cobalt Nanoparticle Rings. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 5591-5593.	7.2	157

#	ARTICLE	IF	CITATIONS
19	Acid-Promoter-Free Ethylene Methoxycarbonylation over Ru-Clusters/Ceria: The Catalysis of Interfacial Lewis Acid-Base Pair. <i>Journal of the American Chemical Society</i> , 2018, 140, 4172-4181.	6.6	157
20	Elemental Anisotropic Growth and Atomic-Scale Structure of Shape-Controlled Octahedral Pt-Ni-Co Alloy Nanocatalysts. <i>Nano Letters</i> , 2015, 15, 7473-7480.	4.5	156
21	Direct Imaging of a Zero-Field Target Skyrmion and Its Polarity Switch in a Chiral Magnetic Nanodisk. <i>Physical Review Letters</i> , 2017, 119, 197205.	2.9	156
22	Magnetite morphology and life on Mars. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 13490-13495.	3.3	154
23	Tuning the Electrocatalytic Oxygen Reduction Reaction Activity and Stability of Shape-Controlled Pt-Ni Nanoparticles by Thermal Annealing ~ Elucidating the Surface Atomic Structural and Compositional Changes. <i>Journal of the American Chemical Society</i> , 2017, 139, 16536-16547.	6.6	144
24	Imaging Catalysts at Work: A Hierarchical Approach from the Macro- to the Meso- and Nano-scale. <i>ChemCatChem</i> , 2013, 5, 62-80.	1.8	143
25	Three-Dimensional Tomographic Imaging and Characterization of Iron Compounds within Alzheimer's Plaque Core Material. <i>Journal of Alzheimer's Disease</i> , 2008, 14, 235-245.	1.2	136
26	Towards data-driven next-generation transmission electron microscopy. <i>Nature Materials</i> , 2021, 20, 274-279.	13.3	130
27	Direct observation of domain-wall pinning at nanoscale constrictions. <i>Applied Physics Letters</i> , 2005, 87, 102509.	1.5	127
28	Resolution and aberration correction in liquid cell transmission electron microscopy. <i>Nature Reviews Materials</i> , 2019, 4, 61-78.	23.3	125
29	Reduction of nickel oxide particles by hydrogen studied in an environmental TEM. <i>Journal of Materials Science</i> , 2013, 48, 2893-2907.	1.7	122
30	Dipolar Magnetism in Ordered and Disordered Low-Dimensional Nanoparticle Assemblies. <i>Scientific Reports</i> , 2013, 3, 1234.	1.6	120
31	Engineering stable electrocatalysts by synergistic stabilization between carbide cores and Pt shells. <i>Nature Materials</i> , 2020, 19, 287-291.	13.3	120
32	Aberration-Corrected Imaging of Active Sites on Industrial Catalyst Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 3683-3685.	7.2	117
33	In situ redox cycle of a nickel-YSZ fuel cell anode in an environmental transmission electron microscope. <i>Acta Materialia</i> , 2010, 58, 4578-4589.	3.8	116
34	In Situ TEM Analysis of Organic-Inorganic Metal-Halide Perovskite Solar Cells under Electrical Bias. <i>Nano Letters</i> , 2016, 16, 7013-7018.	4.5	115
35	Self-limited single nanowire systems combining all-in-one memristive and neuromorphic functionalities. <i>Nature Communications</i> , 2018, 9, 5151.	5.8	115
36	Amorphizing noble metal chalcogenide catalysts at the single-layer limit towards hydrogen production. <i>Nature Catalysis</i> , 2022, 5, 212-221.	16.1	113

#	ARTICLE	IF	CITATIONS
37	Terbium-Doped VO <sub>2</sub> Thin Films: Reduced Phase Transition Temperature and Largely Enhanced Luminous Transmittance. <i>Langmuir</i> , 2016, 32, 759-764.	1.6	112
38	Aberration corrected and monochromated environmental transmission electron microscopy: Challenges and prospects for materials science. <i>Materials Science and Technology</i> , 2010, 26, 1338-1344.	0.8	111
39	Off-axis electron holography of magnetic nanowires and chains, rings, and planar arrays of magnetic nanoparticles. <i>Microscopy Research and Technique</i> , 2004, 64, 390-402.	1.2	106
40	Controllable Atomic Scale Patterning of Freestanding Monolayer Graphene at Elevated Temperature. <i>ACS Nano</i> , 2013, 7, 1566-1572.	7.3	104
41	Control of morphology and formation of highly geometrically confined magnetic skyrmions. <i>Nature Communications</i> , 2017, 8, 15569.	5.8	103
42	Resolving the Structure of Active Sites on Platinum Catalytic Nanoparticles. <i>Nano Letters</i> , 2010, 10, 3073-3076.	4.5	101
43	Off-axis electron holography of magnetotactic bacteria: magnetic microstructure of strains MV-1 and MS-1. <i>European Journal of Mineralogy</i> , 2001, 13, 671-684.	0.4	96
44	Controlling Near-Surface Ni Composition in Octahedral PtNi(Mo) Nanoparticles by Mo Doping for a Highly Active Oxygen Reduction Reaction Catalyst. <i>Nano Letters</i> , 2019, 19, 6876-6885.	4.5	95
45	Towards quantitative electron holography of magnetic thin films using in situ magnetization reversal. <i>Ultramicroscopy</i> , 1998, 74, 61-73.	0.8	93
46	Atomically dispersed Fe in a C <sub>2</sub> N Based Catalyst as a Sulfur Host for Efficient Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2003507.	10.2	91
47	Magnetic interactions within patterned cobalt nanostructures using off-axis electron holography. <i>Journal of Applied Physics</i> , 1998, 84, 374-378.	1.1	90
48	Nonadiabatic Spin Torque Investigated Using Thermally Activated Magnetic Domain Wall Dynamics. <i>Physical Review Letters</i> , 2010, 105, 056601.	2.9	86
49	A High Conductivity 1D Conjugated Metal-Organic Framework with Efficient Polysulfide Trapping-Diffusion-Catalysis in Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2022, 34, e2108835.	11.1	86
50	Alloy nanowires: Invar inside carbon nanotubes. <i>Chemical Communications</i> , 2001, , 471-472.	2.2	84
51	Towards an integrated materials characterization toolbox. <i>Journal of Materials Research</i> , 2011, 26, 1341-1383.	1.2	84
52	Determination of the 3D shape of a nanoscale crystal with atomic resolution from a single image. <i>Nature Materials</i> , 2014, 13, 1044-1049.	13.3	84
53	The Effect of Surface Site Ensembles on the Activity and Selectivity of Ethanol Electrooxidation by Octahedral PtNiRh Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6533-6538.	7.2	81
54	Discrete Dynamics of Nanoparticle Channelling in Suspended Graphene. <i>Nano Letters</i> , 2011, 11, 2689-2692.	4.5	77

#	ARTICLE	IF	CITATIONS
55	A simple algorithm for measuring particle size distributions on an uneven background from TEM images. <i>Ultramicroscopy</i> , 2011, 111, 101-106.	0.8	77
56	Vortex Flux Channeling in Magnetic Nanoparticle Chains. <i>Physical Review Letters</i> , 2003, 91, 257207.	2.9	75
57	Experimental characterisation of CCD cameras for HREM at 300kV. <i>Ultramicroscopy</i> , 2000, 85, 9-13.	0.8	74
58	Interface Engineering in Nanostructured Nickel Phosphide Catalyst for Efficient and Stable Water Oxidation. <i>ACS Catalysis</i> , 2017, 7, 5450-5455.	5.5	74
59	1D lanthanide halide crystals inserted into single-walled carbon nanotubes. <i>Chemical Communications</i> , 2000, , 2427-2428.	2.2	73
60	Realization of electron vortices with large orbital angular momentum using miniature holograms fabricated by electron beam lithography. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	73
61	Visualized effect of oxidation on magnetic recording fidelity in pseudo-single-domain magnetite particles. <i>Nature Communications</i> , 2014, 5, 5154.	5.8	71
62	Rapid low dose electron tomography using a direct electron detection camera. <i>Scientific Reports</i> , 2015, 5, 14516.	1.6	71
63	Measuring the orbital angular momentum spectrum of an electron beam. <i>Nature Communications</i> , 2017, 8, 15536.	5.8	71
64	Off-axis electron holography of patterned magnetic nanostructures. <i>Journal of Microscopy</i> , 2000, 200, 187-205.	0.8	68
65	High-Resolution Three-Dimensional Mapping of Semiconductor Dopant Potentials. <i>Nano Letters</i> , 2007, 7, 2020-2023.	4.5	66
66	Dealloyed PtNi-Core@Shell Nanocatalysts Enable Significant Lowering of Pt Electrode Content in Direct Methanol Fuel Cells. <i>ACS Catalysis</i> , 2019, 9, 3764-3772.	5.5	66
67	Magnetic properties, microstructure, composition, and morphology of greigite nanocrystals in magnetotactic bacteria from electron holography and tomography. <i>American Mineralogist</i> , 2006, 91, 1216-1229.	0.9	64
68	Nanoscale analysis of three-dimensional structures by electron tomography. <i>Scripta Materialia</i> , 2006, 55, 29-33.	2.6	64
69	Boosting Photoelectrochemical Water Oxidation of Hematite in Acidic Electrolytes by Surface State Modification. <i>Advanced Energy Materials</i> , 2019, 9, 1901836.	10.2	64
70	Unravelling Degradation Pathways of Oxide-Supported Pt Fuel Cell Nanocatalysts under In Situ Operating Conditions. <i>Advanced Energy Materials</i> , 2018, 8, 1701663.	10.2	62
71	Shape Stability of Octahedral PtNi Nanocatalysts for Electrochemical Oxygen Reduction Reaction Studied by <i>in situ</i> Transmission Electron Microscopy. <i>ACS Nano</i> , 2018, 12, 5306-5311.	7.3	62
72	Operando high-pressure investigation of size-controlled CuZn catalysts for the methanol synthesis reaction. <i>Nature Communications</i> , 2021, 12, 1435.	5.8	62

#	ARTICLE	IF	CITATIONS
73	Switching asymmetries in closely coupled magnetic nanostructure arrays. Applied Physics Letters, 1999, 75, 2641-2643.	1.5	61
74	Electron beam induced in situ clusterisation of 1D ZrCl <sub>4</sub> chains within single-walled carbon nanotubes. Chemical Communications, 2001, , 845-846.	2.2	61
75	Improvement in electron holographic phase images of focused-ion-beam-milled GaAs and Si p-n junctions by in situ annealing. Applied Physics Letters, 2006, 88, 063510.	1.5	61
76	Electron Holography for the Study of Magnetic Nanomaterials. Accounts of Chemical Research, 2008, 41, 665-674.	7.6	61
77	Single-Crystalline W-Doped VO <sub>2</sub> Nanobeams with Highly Reversible Electrical and Plasmonic Responses Near Room Temperature. Advanced Materials Interfaces, 2016, 3, 1600164.	1.9	60
78	High-T <sub>c</sub> SQUID biomagnetometers. Superconductor Science and Technology, 2017, 30, 083001.	1.8	60
79	Atomic scale imaging of magnetic circular dichroism by achromatic electron microscopy. Nature Materials, 2018, 17, 221-225.	13.3	60
80	Dopant profiling of focused ion beam milled semiconductors using off-axis electron holography; reducing artifacts, extending detection limits and reducing the effects of gallium implantation. Ultramicroscopy, 2010, 110, 383-389.	0.8	59
81	Sulfides in Biosystems. Reviews in Mineralogy and Geochemistry, 2006, 61, 679-714.	2.2	58
82	Microstructural characterization and microstructural effects on the thermal conductivity of AlN(Y <sub>2</sub> O <sub>3</sub> ) ceramics. Journal of the European Ceramic Society, 2002, 22, 247-252.	2.8	57
83	Magnetic induction mapping of magnetite chains in magnetotactic bacteria at room temperature and close to the Verwey transition using electron holography. Journal of Physics: Conference Series, 2005, 17, 108-121.	0.3	57
84	Spin torque and heating effects in current-induced domain wall motion probed by transmission electron microscopy. Applied Physics Letters, 2007, 90, 132506.	1.5	57
85	Formation of unexpectedly active Ni-Fe oxygen evolution electrocatalysts by physically mixing Ni and Fe oxyhydroxides. Chemical Communications, 2019, 55, 818-821.	2.2	57
86	Ni-perovskite interaction and its structural and catalytic consequences in methane steam reforming and methanation reactions. Journal of Catalysis, 2016, 337, 26-35.	3.1	56
87	The impact of trench defects in InGaN/GaN light emitting diodes and implications for the "green gap" problem. Applied Physics Letters, 2014, 105, .	1.5	54
88	Strategies for Doped Nanocrystalline Silicon Integration in Silicon Heterojunction Solar Cells. IEEE Journal of Photovoltaics, 2016, 6, 1132-1140.	1.5	54
89	An Unconventional Transient Phase with Cycloidal Order of Polarization in Energy-Storage Antiferroelectric PbZrO <sub>3</sub> . Advanced Materials, 2020, 32, e1907208.	11.1	54
90	In situ transmission electron microscopy of light-induced photocatalytic reactions. Nanotechnology, 2012, 23, 075705.	1.3	53

#	ARTICLE	IF	CITATIONS
91	On the origin of differential phase contrast at a locally charged and globally charge-compensated domain boundary in a polar-ordered material. <i>Ultramicroscopy</i> , 2015, 154, 57-63.	0.8	53
92	Origin of Magnetization Decay in Spin-Dependent Tunnel Junctions. <i>Science</i> , 1999, 286, 1337-1340.	6.0	52
93	High- $T_c$ DC SQUIDS for Magnetoencephalography. <i>IEEE Transactions on Applied Superconductivity</i> , 2013, 23, 1600705-1600705.	1.1	52
94	Suppressing Twin Formation in $\text{Bi}_2\text{Se}_3$ Thin Films. <i>Advanced Materials Interfaces</i> , 2014, 1, 1400134.	1.9	52
95	Direct visualization of the thermomagnetic behavior of pseudo-“single-domain magnetite particles. <i>Science Advances</i> , 2016, 2, e1501801.	4.7	52
96	Room-temperature all-solid-state sodium batteries with robust ceramic interface between rigid electrolyte and electrode materials. <i>Nano Energy</i> , 2019, 65, 104040.	8.2	52
97	V-shaped defects connected to inversion domains in AlGaIn layers. <i>Applied Physics Letters</i> , 2001, 78, 1529-1531.	1.5	51
98	Eigenmode Tomography of Surface Charge Oscillations of Plasmonic Nanoparticles by Electron Energy Loss Spectroscopy. <i>ACS Photonics</i> , 2015, 2, 1628-1635.	3.2	51
99	Effects of internal mineral structures on the magnetic remanence of silicate-hosted titanomagnetite inclusions: An electron holography study. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	50
100	Tuning the Plasmonic Response up: Hollow Cuboid Metal Nanostructures. <i>ACS Photonics</i> , 2016, 3, 770-779.	3.2	49
101	Temperature and Magnetic Field Dependence of the Internal and Lattice Structures of Skyrmions by Off-Axis Electron Holography. <i>Physical Review Letters</i> , 2017, 118, 087202.	2.9	49
102	Enhanced Polysulfide Conversion with Highly Conductive and Electrocatalytic Iodine-Doped Bismuth Selenide Nanosheets in Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	49
103	Magnetic tunnel junctions thermally stable to above 300°C. <i>Applied Physics Letters</i> , 1999, 75, 543-545.	1.5	48
104	Direct observation of ferrimagnetic/ferroelastic domain interactions in magnetite below the Verwey transition. <i>Earth and Planetary Science Letters</i> , 2010, 297, 10-17.	1.8	48
105	Single crystalline superstructured stable single domain magnetite nanoparticles. <i>Scientific Reports</i> , 2017, 7, 45484.	1.6	48
106	Shape-Controlled Nanoparticles in Pore-Confined Space. <i>Journal of the American Chemical Society</i> , 2018, 140, 15684-15689.	6.6	48
107	Oxidation mechanism of nickel particles studied in an environmental transmission electron microscope. <i>Acta Materialia</i> , 2014, 67, 362-372.	3.8	47
108	Polarity-Driven Polytypic Branching in Cu-Based Quaternary Chalcogenide Nanostructures. <i>ACS Nano</i> , 2014, 8, 2290-2301.	7.3	47

#	ARTICLE	IF	CITATIONS
109	Nanotubes from Misfit Layered Compounds: A New Family of Materials with Low Dimensionality. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 3724-3736.	2.1	47
110	Observation of nanoscale magnetic fields using twisted electron beams. <i>Nature Communications</i> , 2017, 8, 689.	5.8	47
111	Quantitative magnetization measurements on nanometer ferromagnetic cobalt wires using electron holography. <i>Applied Physics Letters</i> , 2003, 82, 88-90.	1.5	46
112	The development of Fresnel contrast analysis, and the interpretation of mean inner potential profiles at interfaces. <i>Ultramicroscopy</i> , 2000, 83, 193-216.	0.8	45
113	Synthesis and optical properties of silicon nanowires grown by different methods. <i>Applied Physics A: Materials Science and Processing</i> , 2006, 85, 247-253.	1.1	45
114	Three-dimensional shapes and spatial distributions of Pt and PtCr catalyst nanoparticles on carbon black. <i>Journal of Microscopy</i> , 2008, 232, 248-259.	0.8	45
115	Hidden surface states at non-polar GaN (101 $\bar{1}$ ) facets: Intrinsic pinning of nanowires. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	45
116	Unveiling the three-dimensional magnetic texture of skyrmion tubes. <i>Nature Nanotechnology</i> , 2022, 17, 250-255.	15.6	45
117	Progress on Emerging Ferroelectric Materials for Energy Harvesting, Storage and Conversion. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	45
118	Nanoscale scanning transmission electron tomography. <i>Journal of Microscopy</i> , 2006, 223, 185-190.	0.8	44
119	Convenient Preparation of High-Quality Specimens for Annealing Experiments in the Transmission Electron Microscope. <i>Microscopy and Microanalysis</i> , 2014, 20, 1638-1645.	0.2	44
120	Effect of lanthanum doping on modulating the thermochromic properties of VO <sub>2</sub> thin films. <i>RSC Advances</i> , 2016, 6, 48455-48461.	1.7	44
121	Carrier localization in the vicinity of dislocations in InGaN. <i>Journal of Applied Physics</i> , 2017, 121, .	1.1	44
122	Off-axis electron holography of electrostatic potentials in unbiased and reverse biased focused ion beam milled semiconductor devices. <i>Journal of Microscopy</i> , 2004, 214, 287-296.	0.8	42
123	Self-assembly and flux closure studies of magnetic nanoparticle rings. <i>Journal of Materials Chemistry</i> , 2011, 21, 16686.	6.7	42
124	Resonances of nanoparticles with poor plasmonic metal tips. <i>Scientific Reports</i> , 2015, 5, 17431.	1.6	42
125	Quantitative electron holographic tomography for the 3D characterisation of semiconductor device structures. <i>Ultramicroscopy</i> , 2008, 108, 1401-1407.	0.8	41
126	Bifunctional Electrocatalysis on Pd@Ni Core@Shell Nanoparticles for Hydrogen Oxidation Reaction in Alkaline Medium. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701666.	1.9	41



#	ARTICLE	IF	CITATIONS
127	Conventional and back-side focused ion beam milling for off-axis electron holography of electrostatic potentials in transistors. <i>Ultramicroscopy</i> , 2005, 103, 67-81.	0.8	39
128	Quantitative determination of domain wall coupling energetics. <i>Applied Physics Letters</i> , 2006, 88, 212510.	1.5	39
129	Transverse domain walls in nanoconstrictions. <i>Applied Physics Letters</i> , 2007, 91, 112502.	1.5	39
130	Magnetic fluctuations in nanosized goethite ( $\alpha$ -FeOOH) grains. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 016007.	0.7	39
131	Experimental Demonstration of an Electrostatic Orbital Angular Momentum Sorter for Electron Beams. <i>Physical Review Letters</i> , 2021, 126, 094802.	2.9	39
132	Photodriven Dipole Reordering: Key to Carrier Separation in Metalorganic Halide Perovskites. <i>ACS Nano</i> , 2019, 13, 4402-4409.	7.3	38
133	Direct Observation of Compositionally Homogeneous a-C: H Band-Gap-Modulated Superlattices. <i>Physical Review Letters</i> , 1995, 75, 4258-4261.	2.9	37
134	Magnetic Nanocrystals in Organisms. <i>Elements</i> , 2009, 5, 235-240.	0.5	37
135	Structural, chemical and magnetic properties of secondary phases in Co-doped ZnO. <i>New Journal of Physics</i> , 2011, 13, 103001.	1.2	37
136	Hybridization approach to in-line and off-axis (electron) holography for superior resolution and phase sensitivity. <i>Scientific Reports</i> , 2014, 4, 7020.	1.6	37
137	Concave curvature facets benefit oxygen electroreduction catalysis on octahedral shaped PtNi nanocatalysts. <i>Journal of Materials Chemistry A</i> , 2019, 7, 1149-1159.	5.2	37
138	Local magnetic spin mismatch promoting photocatalytic overall water splitting with exceptional solar-to-hydrogen efficiency. <i>Energy and Environmental Science</i> , 2022, 15, 265-277.	15.6	37
139	Determination of mean inner potential of germanium using off-axis electron holography. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 1999, 55, 652-658.	0.3	36
140	Direct measurement of the charge distribution along a biased carbon nanotube bundle using electron holography. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	36
141	Performance of a direct detection camera for off-axis electron holography. <i>Ultramicroscopy</i> , 2016, 161, 90-97.	0.8	36
142	Atomic-scale quantification of charge densities in two-dimensional materials. <i>Physical Review B</i> , 2018, 98, .	1.1	36
143	Off-Axis Electron Holography of Unbiased and Reverse-Biased Focused Ion Beam Milled Sip-nJunctions. <i>Microscopy and Microanalysis</i> , 2005, 11, 66-78.	0.2	35
144	Ferrimagnetic/ferroelastic domain interactions in magnetite below the Verwey transition. Part I: electron holography and Lorentz microscopy. <i>Phase Transitions</i> , 2013, 86, 67-87.	0.6	35

#	ARTICLE	IF	CITATIONS
145	The quantitative measurement of magnetic moments from phase images of nanoparticles and nanostructures. I. Fundamentals. Ultramicroscopy, 2010, 110, 425-432.	0.8	34
146	Mineral magnetism of dusty olivine: A credible recorder of pre-accretionary remanence. Geochemistry, Geophysics, Geosystems, 2011, 12, n/a-n/a.	1.0	34
147	Off-axis electron holography observation of magnetic microstructure in a magnetite (001) thin film containing antiphase domains. Physical Review B, 2006, 73, .	1.1	33
148	Reversal of Flux Closure States in Cobalt Nanoparticle Rings With Coaxial Magnetic Pulses. Advanced Materials, 2008, 20, 4248-4252.	11.1	33
149	The effect of interfacial pH on the surface atomic elemental distribution and on the catalytic reactivity of shape-selected bimetallic nanoparticles towards oxygen reduction. Nano Energy, 2016, 27, 390-401.	8.2	33
150	Magnetic Skyrmion Formation at Lattice Defects and Grain Boundaries Studied by Quantitative Off-Axis Electron Holography. Nano Letters, 2017, 17, 1395-1401.	4.5	33
151	Quantification of Magnetic Surface and Edge States in an FeGe Nanostripe by Off-Axis Electron Holography. Physical Review Letters, 2018, 120, 167204.	2.9	33
152	Molecular engineering to introduce carbonyl between nickel salophen active sites to enhance electrochemical CO <sub>2</sub> reduction to methanol. Applied Catalysis B: Environmental, 2022, 314, 121451.	10.8	32
153	The contribution of phonon scattering to high-resolution images measured by off-axis electron holography. Ultramicroscopy, 2004, 98, 115-133.	0.8	31
154	The influence of electron irradiation on electron holography of focused ion beam milled GaAs p-n junctions. Journal of Applied Physics, 2007, 101, 094508.	1.1	31
155	Towards quantitative electrostatic potential mapping of working semiconductor devices using off-axis electron holography. Ultramicroscopy, 2015, 152, 10-20.	0.8	31
156	Direct observation of the thermal demagnetization of magnetic vortex structures in nonideal magnetite recorders. Geophysical Research Letters, 2016, 43, 8426-8434.	1.5	31
157	Enhancing the optoelectronic properties of amorphous zinc tin oxide by subgap defect passivation: A theoretical and experimental demonstration. Physical Review B, 2017, 95, .	1.1	31
158	Quantitative strain mapping of InAs/InP quantum dots with 1%nm spatial resolution using dark field electron holography. Applied Physics Letters, 2011, 99, .	1.5	30
159	Towards quantitative off-axis electron holographic mapping of the electric field around the tip of a sharp biased metallic needle. Journal of Applied Physics, 2014, 116, .	1.1	30
160	Interferometric methods for mapping static electric and magnetic fields. Comptes Rendus Physique, 2014, 15, 126-139.	0.3	30
161	Model-independent measurement of the charge density distribution along an Fe atom probe needle using off-axis electron holography without mean inner potential effects. Journal of Applied Physics, 2015, 117, .	1.1	30
162	In situ Reduction and Oxidation of Nickel from Solid Oxide Fuel Cells in a Transmission Electron Microscope. ECS Transactions, 2009, 25, 1985-1992.	0.3	29

#	ARTICLE	IF	CITATIONS
163	New progress in the fabrication of n <sup>+</sup> -i <sup>-</sup> p micromorph solar cells for opaque substrates. <i>Solar Energy Materials and Solar Cells</i> , 2013, 114, 147-155.	3.0	29
164	Anisotropic magnetoresistance of individual CoFeB and Ni nanotubes with values of up to 1.4% at room temperature. <i>APL Materials</i> , 2014, 2, .	2.2	29
165	Photogrammetry of the three-dimensional shape and texture of a nanoscale particle using scanning electron microscopy and free software. <i>Ultramicroscopy</i> , 2016, 169, 80-88.	0.8	29
166	Selective Chemical Vapor Deposition Growth of Cubic FeGe Nanowires That Support Stabilized Magnetic Skyrmions. <i>Nano Letters</i> , 2017, 17, 508-514.	4.5	29
167	Dislocations in AlGaIn: Core Structure, Atom Segregation, and Optical Properties. <i>Nano Letters</i> , 2017, 17, 4846-4852.	4.5	29
168	Cluster Beam Deposition of Ultrafine Cobalt and Ruthenium Clusters for Efficient and Stable Oxygen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2018, 1, 3013-3018.	2.5	29
169	Room-Temperature Skyrmions at Zero Field in Exchange-Biased Ultrathin Films. <i>Physical Review Applied</i> , 2020, 13, .	1.5	29
170	Quantitative off-axis electron holography of GaAs <i>n</i> - <i>i</i> junctions prepared by focused ion beam milling. <i>Journal of Microscopy</i> , 2009, 233, 102-113.	0.8	28
171	Band offsets at zincblende-wurtzite GaAs nanowire sidewall surfaces. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	28
172	The impact of crystal size and temperature on the adsorption-induced flexibility of the Zr-based metal-organic framework DUT-98. <i>Beilstein Journal of Nanotechnology</i> , 2019, 10, 1737-1744.	1.5	28
173	Composition-Tuned Pt-Skinned PtNi Bimetallic Clusters as Highly Efficient Methanol Dehydrogenation Catalysts. <i>Chemistry of Materials</i> , 2019, 31, 10040-10048.	3.2	28
174	Interlayer coupling within individual submicron magnetic elements. <i>Journal of Applied Physics</i> , 2000, 87, 7400-7404.	1.1	27
175	Formation process and superparamagnetic properties of (Mn,Ga)As nanocrystals in GaAs fabricated by annealing of (Ga,Mn)As layers with low Mn content. <i>Physical Review B</i> , 2011, 84, .	1.1	27
176	Geometric reconstruction methods for electron tomography. <i>Ultramicroscopy</i> , 2013, 128, 42-54.	0.8	27
177	Structural and Optical Properties of Discrete Dendritic Pt Nanoparticles on Colloidal Au Nanoprisms. <i>Journal of Physical Chemistry C</i> , 2016, 120, 20843-20851.	1.5	27
178	Automated discrete electron tomography—Towards routine high-fidelity reconstruction of nanomaterials. <i>Ultramicroscopy</i> , 2017, 175, 87-96.	0.8	27
179	Dislocation Evolution and Migration at Grain Boundaries in Thermoelectric SnTe. <i>ACS Applied Energy Materials</i> , 2019, 2, 2392-2397.	2.5	27
180	Energy-level quantization and single-photon control of phase slips in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> nanowires. <i>Nature Communications</i> , 2020, 11, 763.	5.8	27

#	ARTICLE	IF	CITATIONS
181	Molecular Engineering to Tune the Ligand Environment of Atomically Dispersed Nickel for Efficient Alcohol Electrochemical Oxidation. <i>Advanced Functional Materials</i> , 2021, 31, 2106349.	7.8	27
182	Microstructural characterisation of GaN(As) films grown on (001) GaP by molecular beam epitaxy. <i>Journal of Crystal Growth</i> , 1997, 171, 321-332.	0.7	26
183	Observing thermomagnetic stability of nonideal magnetite particles: Good paleomagnetic recorders?. <i>Geophysical Research Letters</i> , 2014, 41, 7041-7047.	1.5	26
184	Superoscillating electron wave functions with subdiffraction spots. <i>Physical Review A</i> , 2017, 95, .	1.0	26
185	Mapping the magnetization fine structure of a lattice of Bloch-type skyrmions in an FeGe thin film. <i>Applied Physics Letters</i> , 2017, 111, 192410.	1.5	26
186	LiberTEM: Software platform for scalable multidimensional data processing in transmission electron microscopy. <i>Journal of Open Source Software</i> , 2020, 5, 2006.	2.0	26
187	Magnetic and microscopic characterization of magnetite nanoparticles adhered to clay surfaces. <i>American Mineralogist</i> , 2009, 94, 1120-1129.	0.9	25
188	Identification of screw dislocations as fast-forming sites in Fe-doped SrTiO <sub>3</sub> . <i>Applied Physics Letters</i> , 2013, 102, 183504.	1.5	25
189	Determination of the electrostatic potential distribution in Pt/Fe:SrTiO <sub>3</sub> /Nb:SrTiO <sub>3</sub> thin-film structures by electron holography. <i>Scientific Reports</i> , 2014, 4, 6975.	1.6	25
190	The Effect of Surface Site Ensembles on the Activity and Selectivity of Ethanol Electrooxidation by Octahedral PtNiRh Nanoparticles. <i>Angewandte Chemie</i> , 2017, 129, 6633-6638.	1.6	25
191	Visualizing Magnetic Structure in 3D Nanoscale Ni <sup>2+</sup> /Fe Gyroid Networks. <i>Nano Letters</i> , 2020, 20, 3642-3650.	4.5	25
192	Mechanism of magnetization reduction in iron oxide nanoparticles. <i>Nanoscale</i> , 2021, 13, 6965-6976.	2.8	25
193	Applications of nanocomposites. <i>Scripta Materialia</i> , 2001, 44, 2055-2059.	2.6	24
194	Three-dimensional shapes and structures of lamellar-twinned fcc nanoparticles using ADF STEM. <i>Journal of Electron Microscopy</i> , 2009, 58, 167-174.	0.9	24
195	Elemental mapping in achromatic atomic-resolution energy-filtered transmission electron microscopy. <i>Ultramicroscopy</i> , 2014, 147, 98-105.	0.8	24
196	Nondestructive Measurement of Orbital Angular Momentum for an Electron Beam. <i>Physical Review Letters</i> , 2016, 117, 154801.	2.9	24
197	Synthesis and characterisation of silica encapsulated cobalt nanoparticles and nanoparticle chains. <i>Journal of Magnetism and Magnetic Materials</i> , 2006, 301, 336-342.	1.0	23
198	Lanthanide-Based Functional Misfit-Layered Nanotubes. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 6920-6924.	7.2	23

#	ARTICLE	IF	CITATIONS
199	Graphoepitaxy of High-Quality GaN Layers on Graphene/6H-SiC. <i>Advanced Materials Interfaces</i> , 2015, 2, 1400230.	1.9	23
200	Quantitative measurement of mean inner potential and specimen thickness from high-resolution off-axis electron holograms of ultra-thin layered WSe <sub>2</sub> . <i>Ultramicroscopy</i> , 2017, 178, 38-47.	0.8	23
201	The oldest magnetic record in our solar system identified using nanometric imaging and numerical modeling. <i>Nature Communications</i> , 2018, 9, 1173.	5.8	23
202	Off-axis electron holography of pseudo-spin-valve thin-film magnetic elements. <i>Journal of Applied Physics</i> , 2005, 98, 013903.	1.1	22
203	Remanent magnetic states and interactions in nano-pillars. <i>Nanotechnology</i> , 2006, 17, 4367-4373.	1.3	22
204	Domain walls, domain wall transformations and structural changes in permalloy nanowires when subjected to current pulses. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007, 204, 3922-3928.	0.8	22
205	FIB-SEM investigation of trapped intermetallic particles in anodic oxide films on AA1050 aluminium. <i>Anti-Corrosion Methods and Materials</i> , 2011, 58, 173-178.	0.6	22
206	Direct Demonstration of a Magnetic Dead Layer Resulting from A-Site Cation Inhomogeneity in a (La,Sr)MnO <sub>3</sub> Epitaxial Film System. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600414.	1.9	22
207	Tubular structures from the LnS <sub>2</sub> (Ln = La, Ce, Nd, Ho, Er) and LaSe <sub>2</sub> TaSe <sub>2</sub> misfit layered compounds. <i>Journal of Materials Chemistry C</i> , 2016, 4, 89-98.	2.7	22
208	Off-axis electron holography of bacterial cells and magnetic nanoparticles in liquid. <i>Journal of the Royal Society Interface</i> , 2017, 14, 20170464.	1.5	22
209	Structural and chemical characterization of CdSe-ZnS core-shell quantum dots. <i>Applied Surface Science</i> , 2018, 457, 93-97.	3.1	22
210	Understanding the Formation Mechanism of Magnetic Mesocrystals with (Cryo-)Electron Microscopy. <i>Chemistry of Materials</i> , 2019, 31, 7320-7328.	3.2	22
211	The Young-Feynman controlled double-slit electron interference experiment. <i>Scientific Reports</i> , 2019, 9, 10458.	1.6	22
212	Quantitative measurement of nanoscale electrostatic potentials and charges using off-axis electron holography: Developments and opportunities. <i>Ultramicroscopy</i> , 2019, 203, 105-118.	0.8	22
213	Magnetic skyrmion braids. <i>Nature Communications</i> , 2021, 12, 5316.	5.8	22
214	Localized Magnetic Fields in Arbitrary Directions Using Patterned Nanomagnets. <i>Nano Letters</i> , 2010, 10, 1549-1553.	4.5	21
215	Finite element simulations of electrostatic dopant potentials in thin semiconductor specimens for electron holography. <i>Ultramicroscopy</i> , 2013, 134, 160-166.	0.8	21
216	Source localization of brain activity using helium-free interferometer. <i>Applied Physics Letters</i> , 2014, 104, 213705.	1.5	21

#	ARTICLE	IF	CITATIONS
217	Electrostatic doping as a source for robust ferromagnetism at the interface between antiferromagnetic cobalt oxides. <i>Scientific Reports</i> , 2015, 5, 7997.	1.6	21
218	A Small Spot, Inert Gas, Ion Milling Process as a Complementary Technique to Focused Ion Beam Specimen Preparation. <i>Microscopy and Microanalysis</i> , 2017, 23, 782-793.	0.2	21
219	Spherical aberration correction in a scanning transmission electron microscope using a sculpted thin film. <i>Ultramicroscopy</i> , 2018, 189, 46-53.	0.8	21
220	Off-axis electron holography of exchange-biased CoFe/FeMn patterned nanostructures. <i>Journal of Applied Physics</i> , 2001, 90, 2899-2902.	1.1	20
221	Extending the detection limit of dopants for focused ion beam prepared semiconductor specimens examined by off-axis electron holography. <i>Journal of Applied Physics</i> , 2009, 106, .	1.1	20
222	Compositional study of defects in microcrystalline silicon solar cells using spectral decomposition in the scanning transmission electron microscope. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	20
223	Off-axis electron holography of ferromagnetic multilayer nanowires. <i>Journal of Applied Physics</i> , 2014, 116, 023902.	1.1	20
224	Tunable caustic phenomena in electron wavefields. <i>Ultramicroscopy</i> , 2015, 157, 57-64.	0.8	20
225	The ecotoxic potential of a new zero-valent iron nanomaterial, designed for the elimination of halogenated pollutants, and its effect on reductive dechlorinating microbial communities. <i>Environmental Pollution</i> , 2016, 216, 419-427.	3.7	20
226	Design of electrostatic phase elements for sorting the orbital angular momentum of electrons. <i>Ultramicroscopy</i> , 2020, 208, 112861.	0.8	20
227	Origin of Self-Reversed Thermoremanent Magnetization. <i>Physical Review Letters</i> , 2005, 95, 268501.	2.9	19
228	Quantitative determination of vortex core dimensions in head-to-head domain walls using off-axis electron holography. <i>Applied Physics Letters</i> , 2008, 92, 112502.	1.5	19
229	Etching-Assisted Route to Heterophase Au Nanowires with Multiple Types of Active Surface Sites for Silane Oxidation. <i>Nano Letters</i> , 2019, 19, 6363-6369.	4.5	19
230	Interface chemistry and structure of multiply oxidized barrier spin-tunnel junctions. <i>Journal of Applied Physics</i> , 2000, 87, 5200-5202.	1.1	18
231	Distribution behaviour of alloying elements in $\hat{1}\pm 2(\hat{1}\pm)/\hat{1}^3$ lamellae of TiAl-based alloy. <i>Intermetallics</i> , 2000, 8, 945-951.	1.8	18
232	Quantitative electron holography of biased semiconductor devices. <i>Journal of Physics Condensed Matter</i> , 2004, 16, S181-S192.	0.7	18
233	Comparison of off-axis and in-line electron holography as quantitative dopant-profiling techniques. <i>Philosophical Magazine</i> , 2006, 86, 5805-5823.	0.7	18
234	Calixarene-stabilised cobalt nanoparticle rings: Self-assembly and collective magnetic properties. <i>Supramolecular Chemistry</i> , 2009, 21, 189-195.	1.5	18

#	ARTICLE	IF	CITATIONS
235	The application of Lorentz transmission electron microscopy to the study of lamellar magnetism in hematite-ilmenite. <i>American Mineralogist</i> , 2009, 94, 262-269.	0.9	18
236	Quantitative description of photoexcited scanning tunneling spectroscopy and its application to the GaAs(110) surface. <i>Physical Review B</i> , 2015, 91, .	1.1	18
237	Surface effects on mean inner potentials studied using density functional theory. <i>Ultramicroscopy</i> , 2015, 159, 34-45.	0.8	18
238	Absolute Scale Quantitative Off-Axis Electron Holography at Atomic Resolution. <i>Physical Review Letters</i> , 2018, 120, 156101.	2.9	18
239	Characterization of grain boundary disconnections in SrTiO <sub>3</sub> part I: the dislocation component of grain boundary disconnections. <i>Journal of Materials Science</i> , 2019, 54, 3694-3709.	1.7	18
240	Size dependent oxygen reduction and methanol oxidation reactions: catalytic activities of PtCu octahedral nanocrystals. <i>Catalysis Science and Technology</i> , 2020, 10, 5501-5512.	2.1	18
241	In Situ Observation of Pointâ€Defectâ€Induced Unitâ€Cellâ€Wide Energy Storage Pathway in Antiferroelectric PbZrO <sub>3</sub> . <i>Advanced Functional Materials</i> , 2021, 31, 2008609.	7.8	18
242	Ferroelectric phase-transition frustration near a tricritical composition point. <i>Nature Communications</i> , 2021, 12, 5322.	5.8	18
243	Generation of electron vortices using nonexact electric fields. <i>Physical Review Research</i> , 2020, 2, .	1.3	18
244	High-Quality Epitaxial MnSi(111) Layers Grown in the Presence of an Sb Flux. <i>Japanese Journal of Applied Physics</i> , 1998, 37, 6556-6561.	0.8	17
245	Fabrication and structure of an opal-gallium nitride nanocomposite. <i>Semiconductor Science and Technology</i> , 2001, 16, L5-L7.	1.0	17
246	Structure and electronic spectroscopy of steps on GaAs(110) surfaces. <i>Surface Science</i> , 2012, 606, 28-33.	0.8	17
247	Aberration-corrected transmission electron microscopy analyses of GaAs/Si interfaces in wafer-bonded multi-junction solar cells. <i>Ultramicroscopy</i> , 2013, 134, 55-61.	0.8	17
248	Polarity-dependent pinning of a surface state. <i>Physical Review B</i> , 2015, 91, .	1.1	17
249	On stoichiometry and intermixing at the spinel/perovskite interface in CoFe <sub>2</sub> O <sub>4</sub> /BaTiO <sub>3</sub> thin films. <i>Nanoscale</i> , 2015, 7, 218-224.	2.8	17
250	Experimental evidence for hotspot and phase-slip mechanisms of voltage switching in ultrathin YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> nanowires. <i>Physical Review B</i> , 2018, 98, .	1.1	17
251	Fabrication and characterization of a focused ion beam milled lanthanum hexaboride based cold field electron emitter source. <i>Applied Physics Letters</i> , 2018, 113, 093101.	1.5	17
252	Temperature-Induced Structural Reorganization of W-Doped Ba <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3-<math>\delta</math></sub> Composite Membranes for Air Separation. <i>Chemistry of Materials</i> , 2019, 31, 7487-7492.	3.2	17

#	ARTICLE	IF	CITATIONS
253	Microstructural insights into the coercivity enhancement of grain-boundary-diffusion-processed Tb-treated Nd-Fe-B sintered magnets beyond the core-shell formation mechanism. <i>Journal of Alloys and Compounds</i> , 2021, 864, 158915.	2.8	17
254	Skyrmion-antiskyrmion pair creation and annihilation in a cubic chiral magnet. <i>Nature Physics</i> , 2022, 18, 863-868.	6.5	17
255	The contrast of images formed by atomic focusers. <i>Ultramicroscopy</i> , 1998, 72, 223-232.	0.8	16
256	Direct Measurement and Interpretation of Electrostatic Potentials at 24° [001] Tilt Boundaries in Undoped and Niobium-Doped Strontium Titanate Bicrystals. <i>Journal of the American Ceramic Society</i> , 1998, 81, 2917-2926.	1.9	16
257	Magnetoencephalography using a Multilayer high DC SQUID Magnetometer. <i>Physics Procedia</i> , 2012, 36, 66-71.	1.2	16
258	In situ transmission electron microscopy of resistive switching in thin silicon oxide layers. <i>Resolution and Discovery</i> , 2016, 1, 27-33.	0.9	16
259	Formation of ZnO Patches on ZnPd/ZnO during Methanol Steam Reforming: A Strong Metal-Support Interaction Effect?. <i>Journal of Physical Chemistry C</i> , 2016, 120, 10460-10465.	1.5	16
260	Local charge measurement using off-axis electron holography. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 294003.	1.3	16
261	An in-plane magnetic chiral dichroism approach for measurement of intrinsic magnetic signals using transmitted electrons. <i>Nature Communications</i> , 2017, 8, 15348.	5.8	16
262	Interface-driven formation of a two-dimensional dodecagonal fullerene quasicrystal. <i>Nature Communications</i> , 2017, 8, 15367.	5.8	16
263	Generation of electron vortex beams using line charges via the electrostatic Aharonov-Bohm effect. <i>Ultramicroscopy</i> , 2017, 181, 191-196.	0.8	16
264	Bosonic Confinement and Coherence in Disordered Nanodiamond Arrays. <i>ACS Nano</i> , 2017, 11, 11746-11754.	7.3	16
265	Superconducting Quantum Interferometers for Nondestructive Evaluation. <i>Sensors</i> , 2017, 17, 2798.	2.1	16
266	In-plane Aligned Colloidal 2D WS <sub>2</sub> Nanoflakes for Solution-Processable Thin Films with High Planar Conductivity. <i>Scientific Reports</i> , 2019, 9, 9002.	1.6	16
267	Controlled Assembly of Block Copolymer Coated Nanoparticles in 2D Arrays. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8541-8545.	7.2	16
268	Nanostructuring of electron beams. <i>Physica Scripta</i> , 2019, 94, 034004.	1.2	16
269	Electron Holography. <i>Springer Handbooks</i> , 2019, , 767-818.	0.3	16
270	Atomic resolution elemental mapping using energy-filtered imaging scanning transmission electron microscopy with chromatic aberration correction. <i>Ultramicroscopy</i> , 2017, 181, 173-177.	0.8	16



#	ARTICLE	IF	CITATIONS
271	Direct growth of single-metal-atom chains. , 2022, 1, 245-253.		16
272	A novel $\pi$ -d conjugated cobalt tetraaza[14]annulene based atomically dispersed electrocatalyst for efficient CO <sub>2</sub> reduction. Chemical Engineering Journal, 2022, 442, 136129.	6.6	16
273	Crystal size and shape analysis of Pt nanoparticles in two and three dimensions. Journal of Physics: Conference Series, 2006, 26, 367-370.	0.3	15
274	Evolution and propagation of magnetic vortices in chains of Permalloy nanospheres. Journal of Applied Physics, 2006, 99, 08G103.	1.1	15
275	High-Resolution TEM and the Application of Direct and Indirect Aberration Correction. Microscopy and Microanalysis, 2008, 14, 60-67.	0.2	15
276	Chromatic Aberration-Corrected Tilt Series Transmission Electron Microscopy of Nanoparticles in a Whole Mount Macrophage Cell. Microscopy and Microanalysis, 2013, 19, 814-820.	0.2	15
277	Quantitative Agreement between Electron-Optical Phase Images of $WSe_2$ Simulations Based on Electrostatic Potentials that Include Bonding Effects. Physical Review Letters, 2017, 118, 086101.		15
278	Magnetic Imaging of Nanostructures Using Off-Axis Electron Holography. Handbook of Magnetic Materials, 2018, 27, 59-153.	0.6	15
279	Direct measurement of electrostatic potentials at the atomic scale: A conceptual comparison between electron holography and scanning transmission electron microscopy. Ultramicroscopy, 2020, 210, 112926.	0.8	15
280	Cobalt Hexacyanoferrate as a Selective and High Current Density Formate Oxidation Electrocatalyst. ACS Applied Energy Materials, 2020, 3, 9198-9207.	2.5	15
281	Atomic Structure and Electron Magnetic Circular Dichroism of Individual Rock Salt Structure Antiphase Boundaries in Spinel Ferrites. Advanced Functional Materials, 2021, 31, 2008306.	7.8	15
282	Multiple polarization orders in individual twinned colloidal nanocrystals of centrosymmetric HfO <sub>2</sub> . Matter, 2021, 4, 986-1000.	5.0	15
283	Structural Phase Transition and In-Situ Energy Storage Pathway in Nonpolar Materials: A Review. Materials, 2021, 14, 7854.	1.3	15
284	The Electrostatic Contribution to the Forward-Scattering Potential at a Space Charge Layer in High-Energy Electron Diffraction. I. Theory Neglecting the Effects of Fringing Fields. Acta Crystallographica Section A: Foundations and Advances, 1996, 52, 705-711.	0.3	14
285	Microstructural and micromagnetic characterization of thin film magnetic tunnel junctions. Journal of Applied Physics, 1999, 85, 4815-4817.	1.1	14
286	Magnetic microstructure of iron sulfide crystals in magnetotactic bacteria from off-axis electron holography. Physica B: Condensed Matter, 2006, 384, 249-252.	1.3	14
287	Voids and Mn-rich inclusions in a (Ga,Mn)As ferromagnetic semiconductor investigated by transmission electron microscopy. Journal of Applied Physics, 2011, 109, .	1.1	14
288	Ferrimagnetic/ferroelastic domain interactions in magnetite below the Verwey transition: Part II. Micromagnetic and image simulations. Phase Transitions, 2013, 86, 88-102.	0.6	14

#	ARTICLE	IF	CITATIONS
289	Towards a holographic approach to spherical aberration correction in scanning transmission electron microscopy. <i>Optics Express</i> , 2017, 25, 21851.	1.7	14
290	Flexible polarization rotation at the ferroelectric/metal interface as a seed for domain nucleation. <i>Physical Review B</i> , 2018, 98, .	1.1	14
291	Unconventional magnetization textures and domain-wall pinning in Sm <sup>2+</sup> Co magnets. <i>Scientific Reports</i> , 2020, 10, 21209.	1.6	14
292	Operando Transmission Electron Microscopy Study of All-Solid-State Battery Interface: Redistribution of Lithium among Interconnected Particles. <i>ACS Applied Energy Materials</i> , 2020, 3, 5101-5106.	2.5	14
293	Imaging biological macromolecules in thick specimens: The role of inelastic scattering in cryoEM. <i>Ultramicroscopy</i> , 2022, 237, 113510.	0.8	14
294	Atomic-Scale Insights into Nickel Exsolution on LaNiO <sub>3</sub> Catalysts via <i>In Situ</i> Electron Microscopy. <i>Journal of Physical Chemistry C</i> , 2022, 126, 786-796.	1.5	14
295	The Electrostatic Contribution to the Forward-Scattering Potential at a Space Charge Layer in High-Energy Electron Diffraction. II. Fringing Fields. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 1997, 53, 242-250.	0.3	13
296	Remanent magnetization states and interactions in square arrays of 100-nm cobalt dots measured using transmission electron microscopy. <i>Journal of Applied Physics</i> , 2005, 98, 053909.	1.1	13
297	Fabrication of curved-line nanostructures on membranes for transmission electron microscopy investigations of domain walls. <i>Microelectronic Engineering</i> , 2006, 83, 1726-1729.	1.1	13
298	Phase selection and nanocrystallization in Cu-free soft magnetic FeSiNbB amorphous alloy upon rapid annealing. <i>Journal of Applied Physics</i> , 2016, 119, .	1.1	13
299	Importance of quantum correction for the quantitative simulation of photoexcited scanning tunneling spectra of semiconductor surfaces. <i>Physical Review B</i> , 2016, 93, .	1.1	13
300	Surface reconstructions and related local properties of a BiFeO <sub>3</sub> thin film. <i>Scientific Reports</i> , 2017, 7, 39698.	1.6	13
301	Atomically Resolved Electronic States and Correlated Magnetic Order at Termination Engineered Complex Oxide Heterointerfaces. <i>ACS Nano</i> , 2018, 12, 1089-1095.	7.3	13
302	Discovery of Real-Space Topological Ferroelectricity in Metallic Transition Metal Phosphides. <i>Advanced Materials</i> , 2020, 32, e2003479.	11.1	13
303	Efficient large field of view electron phase imaging using near-field electron ptychography with a diffuser. <i>Ultramicroscopy</i> , 2021, 231, 113257.	0.8	13
304	Live Processing of Momentum-Resolved STEM Data for First Moment Imaging and Ptychography. <i>Microscopy and Microanalysis</i> , 2021, 27, 1078-1092.	0.2	13
305	Simulations for imaging with atomic focusers. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 1999, 55, 119-126.	0.3	12
306	Periodic Inclusion of Room-Temperature-Ferromagnetic Metal Phosphide Nanoparticles in Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , 2006, 110, 9759-9763.	1.2	12

#	ARTICLE	IF	CITATIONS
307	Characterization of Bacterial Magnetic Nanostructures Using High-Resolution Transmission Electron Microscopy and Off-Axis Electron Holography. <i>Microbiology Monographs</i> , 2006, , 197-225.	0.3	12
308	GaAs/MnAs nanowires. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 1576-1580.	0.7	12
309	Stability of Porous Platinum Nanoparticles: Combined In Situ TEM and Theoretical Study. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 1106-1110.	2.1	12
310	Atomic resolution imaging and spectroscopy of barium atoms and functional groups on graphene oxide. <i>Ultramicroscopy</i> , 2014, 145, 66-73.	0.8	12
311	Effect of maghemization on the magnetic properties of nonstoichiometric pseudo-single-domain magnetite particles. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 2969-2979.	1.0	12
312	Optimising electron holography in the presence of partial coherence and instrument instabilities. <i>Ultramicroscopy</i> , 2015, 151, 37-45.	0.8	12
313	Towards defect-free epitaxial CdTe and MgCdTe layers grown on InSb (001) substrates. <i>Journal of Crystal Growth</i> , 2016, 439, 99-103.	0.7	12
314	Prospects for quantitative and time-resolved double and continuous exposure off-axis electron holography. <i>Ultramicroscopy</i> , 2017, 178, 48-61.	0.8	12
315	Electron affinity and surface states of GaN $m$ -plane facets: Implication for electronic self-passivation. <i>Physical Review B</i> , 2018, 97, .	1.1	12
316	Multifunctional Noble Metal Phosphide Electrocatalysts for Organic Molecule Electro-Oxidation. <i>ACS Applied Energy Materials</i> , 2021, 4, 1593-1600.	2.5	12
317	Titanium Nitride as a New Prospective Material for NanoSQUIDs and Superconducting Nanobridge Electronics. <i>Nanomaterials</i> , 2021, 11, 466.	1.9	12
318	Comparison of approaches and artefacts in the measurement of detector modulation transfer functions. <i>Ultramicroscopy</i> , 2013, 129, 18-29.	0.8	11
319	Magnetic characterization of synthetic titanomagnetites: Quantifying the recording fidelity of ideal synthetic analogs. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 161-175.	1.0	11
320	Differentiating the structure of PtNi octahedral nanoparticles through combined ADF-EDX simulations. <i>Advanced Structural and Chemical Imaging</i> , 2018, 4, 2.	4.0	11
321	Tunable Ampere phase plate for low dose imaging of biomolecular complexes. <i>Scientific Reports</i> , 2018, 8, 5592.	1.6	11
322	Effect of cation ratio and order on magnetic circular dichroism in the double perovskite Sr <sub>2</sub> Fe <sub>1</sub> +Re <sub>1</sub> -O <sub>6</sub> . <i>Ultramicroscopy</i> , 2018, 193, 137-142.	0.8	11
323	Linear-regioselective hydromethoxycarbonylation of styrene using Ru-clusters/CeO <sub>2</sub> catalyst. <i>Chinese Journal of Catalysis</i> , 2020, 41, 963-969.	6.9	11
324	Unravelling Magnetic Nanochain Formation in Dispersion for In Vivo Applications. <i>Advanced Materials</i> , 2021, 33, e2008683.	11.1	11

#	ARTICLE	IF	CITATIONS
325	All room-temperature synthesis, N <sub>2</sub> photofixation and reactivation over 2D cobalt oxides. Applied Catalysis B: Environmental, 2022, 304, 121001.	10.8	11
326	Quantifying The Effects Of Amorphous Layers on Image Contrast Using Energy Filtered Transmission Electron Microscopy. Materials Research Society Symposia Proceedings, 1994, 354, 495.	0.1	10
327	Electronic structure of face-centered-tetragonal iron in ferromagnetic iron-copper multilayers. Physical Review B, 1999, 59, 2352-2362.	1.1	10
328	Mapping the electrical properties of semiconductor junctions—the electron holographic approach. Scanning, 2008, 30, 299-309.	0.7	10
329	The Titan Environmental Transmission Electron Microscope: Specifications, Considerations and First Results. Microscopy and Microanalysis, 2009, 15, 714-715.	0.2	10
330	The effect of atmospheric corona treatment on AA1050 aluminium. Corrosion Science, 2010, 52, 2155-2163.	3.0	10
331	Morphology and Magnetic Characterisation of Aluminium Substituted Yttrium-Iron Garnet Nanoparticles Prepared Using Sol Gel Technique. Journal of Nanoscience and Nanotechnology, 2011, 11, 2652-2656.	0.9	10
332	Three-dimensional fabrication and characterisation of core-shell nano-columns using electron beam patterning of Ge-doped SiO <sub>2</sub> . Applied Physics Letters, 2012, 100, 263113.	1.5	10
333	Lorentz microscopy and off-axis electron holography of magnetic skyrmions in FeGe. Resolution and Discovery, 2016, 1, 2-8.	0.9	10
334	Electron-Beam Shaping in the Transmission Electron Microscope: Control of Electron-Beam Propagation Along Atomic Columns. Physical Review Applied, 2019, 11, .	1.5	10
335	Manipulation of dipolar magnetism in low-dimensional iron oxide nanoparticle assemblies. Physical Chemistry Chemical Physics, 2019, 21, 6171-6177.	1.3	10
336	Morphological, Structural, and Compositional Evolution of Pt–Ni Octahedral Electrocatalysts with Pt–Rich Edges and Ni–Rich Core: Toward the Rational Design of Electrocatalysts for the Oxygen Reduction Reaction. Particle and Particle Systems Characterization, 2019, 36, 1800442.	1.2	10
337	The grain–boundary resistance of CeO <sub>2</sub> ceramics: A combined microscopy–spectroscopy–simulation study of a dilute solution. Journal of the American Ceramic Society, 2020, 103, 1755-1764.	1.9	10
338	Alignment of electron optical beam shaping elements using a convolutional neural network. Ultramicroscopy, 2021, 228, 113338.	0.8	10
339	Characterization of Ultrathin Doping Layers in Semiconductors. Microscopy and Microanalysis, 1997, 3, 352-363.	0.2	9
340	Three-dimensional electrostatic potential of a Si-p-n-junction revealed using tomographic electron holography. Journal of Physics: Conference Series, 2006, 26, 29-32.	0.3	9
341	Characterization of the magnetic properties of a GdBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> /La <sub>0.75</sub> Sr <sub>0.25</sub> MnO <sub>3</sub> superlattice using off-axis electron holography. Applied Surface Science, 2006, 252, 3977-3983.	3.1	9
342	Local study of the magnetism of Co-doped ZnO thin films. Journal Physics D: Applied Physics, 2006, 39, 1739-1742.	1.3	9

#	ARTICLE	IF	CITATIONS
343	Correlation between magnetic spin structure and the three-dimensional geometry in chemically synthesized nanoscale magnetite rings. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	9
344	Interpretation of electron beam induced charging of oxide layers in a transistor studied using electron holography. <i>Journal of Physics: Conference Series</i> , 2010, 209, 012064.	0.3	9
345	Effect of post-growth annealing on secondary phase formation in low-temperature-grown Mn-doped GaAs. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 145309.	1.3	9
346	Repulsive interactions between dislocations and overgrown v-shaped defects in epitaxial GaN layers. <i>Applied Physics Letters</i> , 2013, 103, 142105.	1.5	9
347	Correction of nonlinear lateral distortions of scanning probe microscopy images. <i>Ultramicroscopy</i> , 2014, 136, 86-90.	0.8	9
348	Measurements of local chemistry and structure in Ni(O) $\hat{\text{a}}\text{e}^{\text{r}}$ YSZ composites during reduction using energy-filtered environmental TEM. <i>Chemical Communications</i> , 2014, 50, 1808.	2.2	9
349	Direct observation of doping incorporation pathways in self-catalytic GaMnAs nanowires. <i>Journal of Applied Physics</i> , 2015, 118, .	1.1	9
350	Integration Issues of Graphoepitaxial High- $\langle \text{tex-math notation="TeX">\{m T\}_{m c}\$/tex-math>\langle /inline-formula>$ SQUIDs Into Multichannel MEG Systems. <i>IEEE Transactions on Applied Superconductivity</i> , 2015, 25, 1-5.	1.1	9
351	Nonstoichiometric Low-Temperature Grown GaAs Nanowires. <i>Nano Letters</i> , 2015, 15, 6440-6445.	4.5	9
352	Mapping the electrostatic potential of Au nanoparticles using hybrid electron holography. <i>Ultramicroscopy</i> , 2016, 165, 8-14.	0.8	9
353	Nano-scale Si segregation and precipitation in Cr <sub>2</sub> Al(Si)C MAX phase coatings impeding grain growth during oxidation. <i>Materials Research Letters</i> , 2019, 7, 180-187.	4.1	9
354	Nanoscale measurement of giant saturation magnetization in $\hat{\text{I}}\hat{\text{z}}\hat{\text{a}}\text{e}^{\text{r}}$ -Fe <sub>16</sub> N <sub>2</sub> by electron energy-loss magnetic chiral dichroism. <i>Ultramicroscopy</i> , 2019, 203, 37-43.	0.8	9
355	Measurement of charge density in nanoscale materials using off-axis electron holography. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2020, 241, 146881.	0.8	9
356	Strong size selectivity in the self-assembly of rounded nanocubes into 3D mesocrystals. <i>Nanoscale Horizons</i> , 2020, 5, 1065-1072.	4.1	9
357	Self-Epitaxial Hetero-Nanolayers and Surface Atom Reconstruction in Electrocatalytic Nickel Phosphides. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 21616-21622.	4.0	9
358	Off-axis electron holography of N $\hat{\text{A}}\text{e}$ -type skyrmions in multilayers of heavy metals and ferromagnets. <i>Ultramicroscopy</i> , 2021, 220, 113155.	0.8	9
359	Fresnel contrast analysis of composition changes and space charge at grain boundaries in mullite. <i>Ultramicroscopy</i> , 1996, 66, 59-71.	0.8	8
360	Electron tomography of Pt nanocatalyst particles and their carbon support. <i>Journal of Physics: Conference Series</i> , 2006, 26, 203-206.	0.3	8

#	ARTICLE	IF	CITATIONS
361	Atomic resolution imaging of <i>in situ</i> InAs nanowire dissolution at elevated temperature. Journal of Physics: Conference Series, 2010, 209, 012013.	0.3	8
362	Characterization of Fe-N nanocrystals and nitrogen-containing inclusions in (Ga,Fe)N thin films using transmission electron microscopy. Journal of Applied Physics, 2013, 114, .	1.1	8
363	Evidence of deep traps in overgrown v-shaped defects in epitaxial GaN layers. Applied Physics Letters, 2013, 103, .	1.5	8
364	Intrinsic bandgap of cleaved ZnO(112 $\bar{0}$ ) surfaces. Applied Physics Letters, 2013, 102, 021608.	1.5	8
365	Transmission electron microscopy of unstained hybrid Au nanoparticles capped with PPAA (plasma-poly-allylamine): Structure and electron irradiation effects. Micron, 2014, 67, 1-9.	1.1	8
366	Intrinsic electronic properties of high-quality wurtzite InN. Physical Review B, 2016, 94, .	1.1	8
367	Magnetic microstructure in a stress-annealed Fe <sub>73.5</sub> Si <sub>15.5</sub> B <sub>7</sub> Nb <sub>3</sub> Cu <sub>1</sub> soft magnetic alloy observed using off-axis electron holography and Lorentz microscopy. AIP Advances, 2016, 6, .	0.6	8
368	Zig-zag Self-assembly of Magnetic Octahedral Fe <sub>3</sub> O <sub>4</sub> Nanocrystals using in situ Liquid Transmission Electron Microscopy. Microscopy and Microanalysis, 2016, 22, 36-37.	0.2	8
369	Phase retrieval of an electron vortex beam using diffraction holography. Applied Physics Letters, 2017, 111, .	1.5	8
370	New experiments with a double crystal electron interferometer. EPJ Applied Physics, 2017, 78, 10701.	0.3	8
371	Orbital angular momentum resolved electron magnetic chiral dichroism. Physical Review B, 2019, 100, .	1.1	8
372	Robust nature of the chiral spin helix in $S_{6\text{Cr}}\text{Nb}$ nanostructures studied by off-axis electron holography. Physical Review B, 2020, 102, .	1.1	8
373	A cartridge-based turning specimen holder with wireless tilt angle measurement for magnetic induction mapping in the transmission electron microscope. Ultramicroscopy, 2021, 220, 113098.	0.8	8
374	Bulk nanomachining of cantilevers with Nb nanoSQUIDs based on nanobridge Josephson junctions. Superconductor Science and Technology, 2021, 34, 035014.	1.8	8
375	Experimental realization of $\frac{1}{2}$ vortex mode converter for electrons using a spherical aberration corrector. Ultramicroscopy, 2021, 229, 113340.	0.8	8
376	Shaping of Electron Beams Using Sculpted Thin Films. ACS Photonics, 2021, 8, 3394-3405.	3.2	8
377	Highly complex magnetic behavior resulting from hierarchical phase separation in AlCo(Cr)FeNi high-entropy alloys. IScience, 2022, 25, 104047.	1.9	8
378	Self-assembly of novel nanowires by thermolysis of fullerene and transition metal thin films. Nanotechnology, 2004, 15, 601-608.	1.3	7

#	ARTICLE	IF	CITATIONS
379	The Prospect of Three-Dimensional Induction Mapping Inside Magnetic Nanostructures by Combining Electron Holography with Electron Tomography. <i>Microscopy and Microanalysis</i> , 2004, 10, 1010-1011.	0.2	7
380	Electron Holography of Nanostructured Materials. <i>RSC Nanoscience and Nanotechnology</i> , 2007, , 138-183.	0.2	7
381	The Role of Magnetic Vortex Formation in Chains of Spherical FeNi Nanoparticles: A Micromagnetics Study. <i>Japanese Journal of Applied Physics</i> , 2009, 48, 103002.	0.8	7
382	Dopant mapping of Be $\delta$ -doped layers in GaAs tailored by counterdoping using scanning tunneling microscopy. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	7
383	Electron energy-loss spectroscopy of boron-doped layers in amorphous thin film silicon solar cells. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	7
384	Structural and electronic properties of $\text{FeSi}_2$ . <i>Physical Review B</i> , 2014, 89, . The role of stacking fault domains. <i>Physical Review B</i> , 2014, 89, .		
385	Graphoepitaxial high- $T_c$ SQUIDs. <i>Journal of Physics: Conference Series</i> , 2014, 507, 042009.	0.3	7
386	Tomographic Heating Holder for In Situ TEM: Study of Pt/C and PtPd/Al <sub>2</sub> O <sub>3</sub> Catalysts as a Function of Temperature. <i>Microscopy and Microanalysis</i> , 2014, 20, 982-990.	0.2	7
387	Lazarevicite-type short-range ordering in ternary III-V nanowires. <i>Physical Review B</i> , 2016, 94, .	1.1	7
388	The growth and degradation of binary and ternary octahedral Pt-Ni-based fuel cell catalyst nanoparticles studied using advanced transmission electron microscopy. <i>Advances in Physics: X</i> , 2017, 2, 281-301.	1.5	7
389	Low temperature pressureless immediate sintering of a novel nanostructured WC/Co/NiCrSiB-alloy cemented carbide. <i>Scripta Materialia</i> , 2017, 139, 100-103.	2.6	7
390	Transformation of carbon-supported Pt-Ni octahedral electrocatalysts into cubes: toward stable electrocatalysis. <i>Nanoscale</i> , 2018, 10, 21353-21362.	2.8	7
391	Fabrication of low aspect ratio three-element Boersch phase shifters for voltage-controlled three electron beam interference. <i>Journal of Applied Physics</i> , 2020, 128, 134502.	1.1	7
392	STEM electron beam-induced current measurements of organic-inorganic perovskite solar cells. <i>Ultramicroscopy</i> , 2020, 217, 113047.	0.8	7
393	Quantitative measurement of charge accumulation along a quasi-one-dimensional W <sub>5</sub> O <sub>14</sub> nanowire during electron field emission. <i>Nanoscale</i> , 2020, 12, 10559-10564.	2.8	7
394	Biominerals at the nanoscale. , 0, , 377-435.		7
395	Energy-filtered Fresnel contrast analysis of Fe/Cu multilayers. <i>Journal of Microscopy</i> , 1995, 180, 263-276.	0.8	6
396	The effect of encapsulation on the morphology and chemical composition of InAs/GaAs quantum dots grown by molecular beam epitaxy. <i>Microelectronic Engineering</i> , 2004, 73-74, 604-609.	1.1	6

#	ARTICLE	IF	CITATIONS
397	Quantitative determination of local potential values in inhomogeneously doped semiconductors by scanning tunneling microscopy. <i>Physical Review B</i> , 2011, 84, .	1.1	6
398	Lorentz Microscopy and Electron Holography of Magnetic Materials. , 2012, , 221-251.		6
399	Opportunities for Chromatic Aberration Corrected High-Resolution Transmission Electron Microscopy, Lorentz Microscopy and Electron Holography of Magnetic Minerals. <i>Microscopy and Microanalysis</i> , 2012, 18, 1708-1709.	0.2	6
400	Defects in paramagnetic Co-doped ZnO films studied by transmission electron microscopy. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	6
401	Nondestructive Evaluation Using a High-Resolution SQUID Microscope. <i>IEEE Transactions on Applied Superconductivity</i> , 2017, 27, 1-5.	1.1	6
402	Microstructural characterization of Cr-doped (Bi,Sb) <sub>2</sub> Te <sub>3</sub> thin films. <i>CrystEngComm</i> , 2017, 19, 3633-3639.	1.3	6
403	Three-dimensional electric field mapping of an electrically biased atom probe needle using off-axis electron holography. <i>Microscopy and Microanalysis</i> , 2019, 25, 326-327.	0.2	6
404	TiN nanobridge Josephson junctions and nanoSQUIDs on SiN-buffered Si. <i>Superconductor Science and Technology</i> , 2022, 35, 065001.	1.8	6
405	Highly Active and Stable Large Mo-Doped Pt-Ni Octahedral Catalysts for ORR: Synthesis, Post-treatments, and Electrochemical Performance and Stability. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 29690-29702.	4.0	6
406	Moiré patterns in electron microscopy with atomic focuser crystals. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 1999, 55, 533-542.	0.3	5
407	Metal and alloy nanowires: Iron and invar inside carbon nanotubes. <i>AIP Conference Proceedings</i> , 2001, , .	0.3	5
408	The measurement and interpretation of electrostatic potential profiles across grain boundaries in strontium titanate. <i>Journal of Physics: Conference Series</i> , 2006, 26, 235-238.	0.3	5
409	Imaging the Oxidation of ZnS Encapsulated in Carbon Nanotubes. <i>Chemistry - A European Journal</i> , 2010, 16, 11809-11812.	1.7	5
410	EELS measurements of boron concentration profiles in p-a-Si and nip a-Si solar cells. <i>Journal of Non-Crystalline Solids</i> , 2012, 358, 2179-2182.	1.5	5
411	Interpretation of phase images of delta-doped layers. <i>Microscopy (Oxford, England)</i> , 2013, 62, S87-S98.	0.7	5
412	<i>In Situ</i> Transmission Electron Microscopy of Ionic Conductivity and Reaction Mechanisms in Ultrathin Solid Oxide Fuel Cells. <i>Microscopy and Microanalysis</i> , 2014, 20, 1817-1825.	0.2	5
413	GaN heterostructures with diamond and graphene. <i>Semiconductor Science and Technology</i> , 2015, 30, 114001.	1.0	5
414	Three-wave electron vortex lattices for measuring nanofields. <i>Ultramicroscopy</i> , 2015, 148, 25-30.	0.8	5



#	ARTICLE	IF	CITATIONS
415	Experimental realization of the Ehrenberg-Siday thought experiment. Applied Physics Letters, 2016, 108, .	1.5	5
416	Energy-filtered environmental transmission electron microscopy for the assessment of solid-gas reactions at elevated temperature: NiO/YSZ-H <sub>2</sub> as a case study. Ultramicroscopy, 2016, 169, 11-21.	0.8	5
417	Probing defect states in polycrystalline GaN grown on Si(111) by sub-bandgap laser-excited scanning tunneling spectroscopy. Journal of Applied Physics, 2017, 121, 015701.	1.1	5
418	Fermi-level pinning and intrinsic surface states of Al <sub>1-x</sub> In <sub>x</sub> N(101Å <sup>-1</sup> ) surfaces. Applied Physics Letters, 2017, 110, .	1.5	5
419	Effects of thermal annealing on structural and electrical properties of surface-activated n-GaSb/n-GaN direct wafer bonds. Journal of Applied Physics, 2017, 122, .	1.1	5
420	Fine electron biprism on a Si-on-insulator chip for off-axis electron holography. Ultramicroscopy, 2018, 185, 81-89.	0.8	5
421	Mechanistic insight into the formation of colloidal WS <sub>2</sub> nanoflakes in hot alkylamine media. Nanoscale Advances, 2019, 1, 2772-2782.	2.2	5
422	Structural characterization of bulk and nanoparticle lead halide perovskite thin films by (S)TEM techniques. Nanotechnology, 2019, 30, 135701.	1.3	5
423	Influence of surface band bending on a narrow band gap semiconductor: Tunneling atomic force studies of graphite with Bernal and rhombohedral stacking orders. Physical Review Materials, 2021, 5, .	0.9	5
424	Temperature dependence of magnetization processes in Sm(Co, Fe, Cu, Zr) <sub>z</sub> magnets with different nanoscale microstructures. Journal of Applied Physics, 2021, 129, .	1.1	5
425	Single-particle cryo-EM: alternative schemes to improve dose efficiency. Journal of Synchrotron Radiation, 2021, 28, 1343-1356.	1.0	5
426	Next-Generation Information Technology Systems for Fast Detectors in Electron Microscopy. , 2020, , 83-120.		5
427	Continuous illumination picosecond imaging using a delay line detector in a transmission electron microscope. Ultramicroscopy, 2022, 233, 113392.	0.8	5
428	Theoretical and practical aspects of the design and production of synthetic holograms for transmission electron microscopy. Journal of Applied Physics, 2022, 131, .	1.1	5
429	STEM Electron Tomography for Nanoscale Materials Science. Microscopy and Microanalysis, 2004, 10, 148-149.	0.2	4
430	An Ultra-High-Tilt Two-Contact Electrical Biasing Specimen Holder for Electron Holography and Electron Tomography of Semiconductor Devices. Microscopy and Microanalysis, 2004, 10, 1012-1013.	0.2	4
431	Delocalisation in images of Pt nanoparticles. Journal of Physics: Conference Series, 2006, 26, 292-295.	0.3	4
432	Investigating the chemical and morphological evolution of GaAs capped InAs/InP quantum dots emitting at 1.5µm using aberration-corrected scanning transmission electron microscopy. Journal of Crystal Growth, 2011, 329, 57-61.	0.7	4

#	ARTICLE	IF	CITATIONS
433	Imaging At the Timescale Of Micro- and Milliseconds With the pnCCD (S)TEM Camera. <i>Microscopy and Microanalysis</i> , 2015, 21, 1585-1586.	0.2	4
434	Tracking the subsurface path of dislocations in GaN using scanning tunneling microscopy. <i>Journal of Applied Physics</i> , 2015, 118, 035302.	1.1	4
435	Strain and compositional fluctuations in Al <sub>0.81</sub> In <sub>0.19</sub> N/GaN heterostructures. <i>Applied Physics Letters</i> , 2016, 109, 132102.	1.5	4
436	Direct Observation of Redox Switching in Resistive Memory Devices Operated In-situ in a Transmission Electron Microscope by Electron Energy Loss Spectroscopy and Off-Axis Electron Holography. <i>Microscopy and Microanalysis</i> , 2016, 22, 52-53.	0.2	4
437	High- $T_c$ Dual-SQUIDs With Graphoepitaxial Step-Edge Junctions. <i>IEEE Transactions on Applied Superconductivity</i> , 2016, 26, 1-4.	1.1	4
438	Flip-Chip High-Tc DC SQUID Magnetometer With a Ferromagnetic Flux Antenna. <i>IEEE Transactions on Applied Superconductivity</i> , 2018, 28, 1-5.	1.1	4
439	Blind identification of magnetic signals in electron magnetic chiral dichroism using independent component analysis. <i>Ultramicroscopy</i> , 2018, 195, 129-135.	0.8	4
440	Nanoscope Porous Iridium/Iridium Dioxide Superstructures (15â€¦nm): Synthesis and Thermal Conversion by Inâ€¦Situ Transmission Electron Microscopy. <i>Chemistry - A European Journal</i> , 2019, 25, 11048-11057.	1.7	4
441	Single Electron Precision in the Measurement of Charge Distributions on Electrically Biased Graphene Nanotips Using Electron Holography. <i>Nano Letters</i> , 2019, 19, 4091-4096.	4.5	4
442	Composition modulation by twinning in InAsSb nanowires. <i>Nanotechnology</i> , 2019, 30, 324005.	1.3	4
443	Structural perspective on revealing heat dissipation behavior of CoFe <sub>2</sub> O <sub>4</sub> â€¦Pd nanohybrids: great promise for magnetic fluid hyperthermia. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 26728-26741.	1.3	4
444	Magnetic quantification of single-crystalline Fe and Co nanowires via off-axis electron holography. <i>Journal of Chemical Physics</i> , 2020, 152, 114202.	1.2	4
445	MoRe/YBCO Josephson junctions and Î€-loops. <i>Superconductor Science and Technology</i> , 2020, 33, 044005.	1.8	4
446	Atomic-Scale Characterization of Commensurate and Incommensurate Vacancy Superstructures in Natural Pyrrhotites. <i>American Mineralogist</i> , 2021, 106, 82-96.	0.9	4
447	Influence of crystalline defects on magnetic nanodomains in a rare-earth-free magnetocrystalline anisotropic alloy. <i>Physical Review Materials</i> , 2021, 5, .	0.9	4
448	Differentiation between strain and charge mediated magnetoelectric coupling in La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> /Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> ) <sub>0.7</sub> Ti <sub>0.3</sub> C. <i>New Journal of Physics</i> , 2021, 23, 063043.	1.1	4
449	Discovery and Implications of Hidden Atomic-Scale Structure in a Metallic Meteorite. <i>Nano Letters</i> , 2021, 21, 8135-8142.	4.5	4
450	A Self-Flux-Biased NanoSQUID with Four NbN-TiN-NbN Nanobridge Josephson Junctions. <i>Electronics (Switzerland)</i> , 2022, 11, 1704.	1.8	4

#	ARTICLE	IF	CITATIONS
451	Structural Characterisation of Iron-Copper Multilayers Using Transmission Electron Microscopy. Materials Research Society Symposia Proceedings, 1994, 367, 317.	0.1	3
452	The Scattering Distribution from Semiconductors as a Function of Angle and Energy Loss in the Electron Microscope. Materials Research Society Symposia Proceedings, 1996, 466, 113.	0.1	3
453	The determination of rigid lattice shifts across delta-doped layers using regressional analysis. Ultramicroscopy, 1998, 72, 199-211.	0.8	3
454	3-D Analysis of Nanomaterials using Electron Tomography. Microscopy and Microanalysis, 2003, 9, 4-5.	0.2	3
455	Simulations of the electrostatic potential in a thin silicon specimen containing a p-n junction. Materials Research Society Symposia Proceedings, 2004, 839, 60.	0.1	3
456	The mean inner potential of GaN measured from nanowires using off-axis electron holography. Materials Research Society Symposia Proceedings, 2005, 892, 184.	0.1	3
457	Off-Axis Electron Holography. , 2005, , 629-651.		3
458	The application of spherical aberration correction and focal series restoration to high-resolution images of platinum nanocatalyst particles. Journal of Physics: Conference Series, 2006, 26, 25-28.	0.3	3
459	Theoretical and experimental factors affecting measurements of semiconductor mean inner potentials. Journal of Physics: Conference Series, 2010, 209, 012030.	0.3	3
460	Environmental TEM investigation of the reduction of $\text{Fe}_2\text{O}_3$ nanorods under $\text{H}_2$ atmosphere. Journal of Physics: Conference Series, 2012, 371, 012049.	0.3	3
461	Electronically Nonalloyed State of a Statistical Single Atomic Layer Semiconductor Alloy. Nano Letters, 2012, 12, 5845-5849.	4.5	3
462	Graphoepitaxial Josephson junctions and DC SQUIDs. , 2013, , .		3
463	Magnetic bacteria on a diamond plate. Nature, 2013, 496, 442-443.	13.7	3
464	Hydrothermal synthesis, off-axis electron holography and magnetic properties of $\text{Fe}_3\text{O}_4$ nanoparticles. Journal of Physics: Conference Series, 2014, 522, 012062.	0.3	3
465	Observation of thermally-induced magnetic relaxation in a magnetite grain using off-axis electron holography. Journal of Physics: Conference Series, 2017, 902, 012001.	0.3	3
466	Understanding electron magnetic circular dichroism in a transition potential approach. Physical Review B, 2018, 97, .	1.1	3
467	Magnetic characterization of cobalt nanowires and square nanorings fabricated by focused electron beam induced deposition. Beilstein Journal of Nanotechnology, 2018, 9, 1040-1049.	1.5	3
468	$\text{I}\ddot{\text{C}}$ -Loops With ds Josephson Junctions. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.1	3

#	ARTICLE	IF	CITATIONS
469	Dynamical diffraction effects in STEM orbital angular momentum resolved electron energy-loss magnetic chiral dichroism. <i>Physical Review B</i> , 2020, 102, .	1.1	3
470	Project Tomo: Toward Atomic-scale Analytical Tomography. <i>Microscopy and Microanalysis</i> , 2020, 26, 2618-2621.	0.2	3
471	A Comparative Study of the Catalytic Performance of Pt-Based Bi and Trimetallic Nanocatalysts Towards Methanol, Ethanol, Ethylene Glycol, and Glycerol Electro-Oxidation. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 6274-6285.	0.9	3
472	2D Organic Layered Materials: Atomically dispersed Fe in a C <sub>2</sub> N Based Catalyst as a Sulfur Host for Efficient Lithium Sulfur Batteries (Adv. Energy Mater. 5/2021). <i>Advanced Energy Materials</i> , 2021, 11, 2170022.	10.2	3
473	Focused ion beam fabrication of Janus bimetallic cylinders acting as drift tube Zernike phase plates for electron microscopy. <i>Journal of Applied Physics</i> , 2021, 130, 024507.	1.1	3
474	Towards laser printing of magnetocaloric structures by inducing a magnetic phase transition in iron-rhodium nanoparticles. <i>Scientific Reports</i> , 2021, 11, 13719.	1.6	3
475	Three-Dimensional Measurement of Magnetic Moment Vectors Using Electron Magnetic Chiral Dichroism at Atomic Scale. <i>Physical Review Letters</i> , 2021, 127, 087202.	2.9	3
476	Domain Wall Spin Structures in 3d Metal Ferromagnetic Nanostructures. , 2008, , 281-293.		3
477	Chapter 5. Electron Holography of Nanostructured Materials. <i>RSC Nanoscience and Nanotechnology</i> , 2015, , 158-210.	0.2	3
478	Interplay of anomalous strain relaxation and minimization of polarization changes at nitride semiconductor heterointerfaces. <i>Physical Review B</i> , 2020, 102, .	1.1	3
479	The Importance of the Fringing Field Surrounding a Tem Foil to the Quantification of Phase Contrast at a P-N Junction. <i>Materials Research Society Symposia Proceedings</i> , 1996, 466, 73.	0.1	2
480	Electron Holography of Nanostructured Magnetic Materials. <i>Materials Research Society Symposia Proceedings</i> , 1999, 589, 13.	0.1	2
481	The Crystallography of Metal Halides formed within Single Walled Carbon Nanotubes. <i>Materials Research Society Symposia Proceedings</i> , 2000, 633, 14311.	0.1	2
482	Characterization of Magnetic Nanoparticles Using Energy-Selected Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2002, 8, 403-411.	0.2	2
483	Iron Oxide and Sulfide Nanocrystals as Biomarkers. <i>Microscopy and Microanalysis</i> , 2003, 9, 242-243.	0.2	2
484	Growth and Overgrowth of Ge/Si Quantum Dots: An Observation by Atomic Resolution HAADF-STEM Imaging. <i>Materials Research Society Symposia Proceedings</i> , 2004, 832, 221.	0.1	2
485	Novel approaches for the characterization of electromagnetic fields using electron holography. <i>Materials Research Society Symposia Proceedings</i> , 2004, 839, 101.	0.1	2
486	Electron Beam Induced Charging of Focused Ion Beam Milled Semiconductor Transistors Examined Using Electron Holography. <i>Microscopy and Microanalysis</i> , 2004, 10, 988-989.	0.2	2

#	ARTICLE	IF	CITATIONS
487	13. Sulfides in Biosystems. , 2006, , 679-714.		2
488	Measuring the Magnetic Induction of Isolated CoFeB Nanowires by Off-Axis Electron Holography. Microscopy and Microanalysis, 2012, 18, 510-511.	0.2	2
489	Meandering of overgrown v-shaped defects in epitaxial GaN layers. Applied Physics Letters, 2014, 105, 012105.	1.5	2
490	Recent Progress in Electromagnetic Field Mapping at the Nanoscale. Microscopy (Oxford, England), 2014, 63, i1.2-i1.	0.7	2
491	Effective mass of a two-dimensional $\sqrt{3} \times \sqrt{3}$ Ga single atomic layer on Si(111). Surface Science, 2014, 630, 225-228.	0.8	2
492	Transmission electron microscopy of thiol-capped Au clusters on C: Structure and electron irradiation effects. Micron, 2015, 70, 41-49.	1.1	2
493	Spherical and Chromatic Aberration Correction for Atomic-Resolution Liquid Cell Electron Microscopy. , 0, , 434-455.		2
494	Three-Dimensional Probing of Catalyst Ageing on Different Length Scales: A Case Study of Changes in Microstructure and Activity for CO Oxidation of a PtPd/Al <sub>2</sub> O <sub>3</sub> Catalyst. ChemCatChem, 2017, 9, 3544-3553.	1.8	2
495	A single slice approach for simulating two-beam electron diffraction of nanocrystals. Ultramicroscopy, 2018, 195, 171-188.	0.8	2
496	Resistive switching in optoelectronic III-V materials based on deep traps. Scientific Reports, 2018, 8, 9483.	1.6	2
497	Electron Ptychography of Single Biological Macromolecules. Microscopy and Microanalysis, 2019, 25, 72-73.	0.2	2
498	Structured quantum projectiles. Physical Review A, 2019, 99, .	1.0	2
499	InAs <sub>1-x</sub> Sb <sub>x</sub> Shell on InAs Nanowires. Nano Letters, 2019, 19, 8801-8805.	4.5	2
500	Effect of annealing on the magnetic states of FEBID-grown cobalt nanopatterns examined by off-axis electron holography. Journal of Microscopy, 2020, 279, 217-221.	0.8	2
501	Interplay of intrinsic and extrinsic states in pinning and passivation of m-plane facets of GaN n-p-n junctions. Journal of Applied Physics, 2020, 128, .	1.1	2
502	Energy Storage: An Unconventional Transient Phase with Cycloidal Order of Polarization in Energy-Storage Antiferroelectric PbZrO <sub>3</sub> (Adv. Mater. 9/2020). Advanced Materials, 2020, 32, 2070069.	11.1	2
503	Solute Incorporation at Oxide-Oxide Interfaces Explains How Ternary Mixed-Metal Oxide Nanocrystals Support Element-Specific Anisotropic Growth. Advanced Functional Materials, 2020, 30, 1909054.	7.8	2
504	Atomically-resolved interlayer charge ordering and its interplay with superconductivity in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>6.81</sub> . Nature Communications, 2021, 12, 3893.	5.8	2

#	ARTICLE	IF	CITATIONS
505	Non-topographic current contrast in scanning field emission microscopy. Royal Society Open Science, 2021, 8, 210511.	1.1	2
506	Quantitative imaging of the magnetic field distribution in an artificial spin ice studied by off-axis electron holography. Journal of Magnetism and Magnetic Materials, 2022, 543, 168535.	1.0	2
507	Visibility and Apparent Size of Néel-Type Magnetic Skyrmions in Fresnel Defocus Images of Multilayer Films. Microscopy and Microanalysis, 0, , 1-10.	0.2	2
508	<i>Operando</i> transmission electron microscopy of battery cycling: thickness dependent breaking of TiO <sub>2</sub> coating on Si/SiO <sub>2</sub> nanoparticles. Chemical Communications, 2022, 58, 3130-3133.	2.2	2
509	Diversity of states in a chiral magnet nanocylinder. APL Materials, 2022, 10, .	2.2	2
510	The form of the incommensurate shear distortions in the superconducting PbBiSrCaCuO compounds and their relation to T <sub>c</sub> . Superconductor Science and Technology, 1990, 3, 414-421.	1.8	1
511	The defocus contrast of a $\lambda^2$ precipitate in Al-4wt%Cu: Fresnel fringe analysis applied to an atomically abrupt interface. Ultramicroscopy, 1993, 52, 404-414.	0.8	1
512	In-situ TEM studies of magnetization reversal processes in magnetic nanostructures. Materials Research Society Symposia Proceedings, 2005, 907, 1.	0.1	1
513	Electron Holography of Ferromagnetic Nanoparticles Encapsulated in Three-Dimensional Arrays of Aligned Carbon Nanotubes. Materials Research Society Symposia Proceedings, 2006, 962, 1.	0.1	1
514	Off-Axis Electron Holography of Self-Assembled Co Nanoparticle Rings. Materials Research Society Symposia Proceedings, 2007, 1026, 1.	0.1	1
515	Mapping boron in silicon solar cells using electron energy-loss spectroscopy. Journal of Physics: Conference Series, 2011, 326, 012052.	0.3	1
516	Conventional and 360 degree electron tomography of a micro-crystalline silicon solar cell. Journal of Physics: Conference Series, 2011, 326, 012057.	0.3	1
517	Aberration-corrected electron microscopy of MnAs and As nanocrystals and voids in annealed (Ga,Mn)As. Journal of Physics: Conference Series, 2011, 326, 012018.	0.3	1
518	Reconstruction of an InAs nanowire using geometric and algebraic tomography. Journal of Physics: Conference Series, 2011, 326, 012045.	0.3	1
519	Synchrotron photoemission study of (Zn,Co)O films with uniform Co distribution. Radiation Physics and Chemistry, 2011, 80, 1046-1050.	1.4	1
520	Analyses of Interfaces in Wafer-Bonded Tandem Solar Cells by Aberration-Corrected STEM and EELS. Microscopy and Microanalysis, 2014, 20, 456-457.	0.2	1
521	New Approaches for Measuring Electrostatic Potentials and Charge Density Distributions in Working Devices Using Off-Axis and In-Line Electron Holography. Microscopy and Microanalysis, 2014, 20, 260-261.	0.2	1
522	Electron Holography of the Magnetic Phase Shift of a Current-Carrying Wire. Microscopy and Microanalysis, 2014, 20, 278-279.	0.2	1

#	ARTICLE	IF	CITATIONS
523	Aberration Corrected Off-Axis Electron Holography of Layered Transition Metal Dichalcogenides. <i>Microscopy and Microanalysis</i> , 2015, 21, 1399-1400.	0.2	1
524	Measurement of Atomic Electric Fields by Scanning Transmission Electron Microscopy (STEM) Employing Ultrafast Detectors. <i>Microscopy and Microanalysis</i> , 2016, 22, 484-485.	0.2	1
525	Selected growth parameters of farm-raised mallard ( <i>Anas platyrhynchos</i> L.) ducklings. <i>Canadian Journal of Animal Science</i> , 2016, 96, 504-511.	0.7	1
526	The benefit of thresholding carbon layers in electron tomographic tilt series by intensity downshifting. <i>Journal of Microscopy</i> , 2017, 265, 298-306.	0.8	1
527	Towards Quantitative Atomic-Scale Imaging of Magnetization Distributions in Materials Using Aberration-Corrected Off-Axis Electron Holography. <i>Microscopy and Microanalysis</i> , 2018, 24, 108-109.	0.2	1
528	Evaluating the 3D Structures of PtNi Nanoparticles from Single Projection ADF STEM Images and EDX Maps. <i>Microscopy and Microanalysis</i> , 2018, 24, 1688-1689.	0.2	1
529	Dislocation bending in GaN/step-graded (Al,Ga)N/AlN buffer layers on Si(111) investigated by STM and STEM. <i>Philosophical Magazine</i> , 2018, 98, 3072-3085.	0.7	1
530	Photoelectrochemical Water Splitting: Boosting Photoelectrochemical Water Oxidation of Hematite in Acidic Electrolytes by Surface State Modification ( <i>Adv. Energy Mater.</i> 34/2019). <i>Advanced Energy Materials</i> , 2019, 9, 1970131.	10.2	1
531	Introduction to a special issue on Frontiers of Aberration Corrected Electron Microscopy in honour of Christian Colliex, Archie Howie and Hannes Lichte on the occasion of their 75th, 85th and 75th birthdays. <i>Ultramicroscopy</i> , 2019, 203, 1.	0.8	1
532	Near-4D STEM with an Orbital Angular Momentum Sorter: Advantages and Challenges. <i>Microscopy and Microanalysis</i> , 2020, 26, 236-238.	0.2	1
533	Design, Realization and Challenges of an Orbital Angular Momentum Sorter: A New Instrument for Phase Microscopy. <i>Microscopy and Microanalysis</i> , 2020, 26, 1538-1539.	0.2	1
534	Combination of Electron Energy-loss Spectroscopy and Orbital Angular Momentum Spectroscopy. Applications to Electron Magnetic Chiral Dichroism, Plasmon-loss, and Core-loss. <i>Microscopy and Microanalysis</i> , 2020, 26, 1752-1753.	0.2	1
535	A sorter for electrons based on magnetic elements. <i>Ultramicroscopy</i> , 2021, 231, 113287.	0.8	1
536	Reducing Decoherence in Fluctuation Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2021, 27, 1776-1777.	0.2	1
537	Electron holography of doped semiconductors: when does it work and is it quantitative?. , 2005, , 203-212.		1
538	The structure of coherent and incoherent InAs/GaAs quantum dots. , 2005, , 243-246.		1
539	Time resolved in-situ TEM observations of Carbon Nanotube growth. , 2008, , 165-166.		1
540	Alloy fluctuations at dislocations in III-nitrides: identification and impact on optical properties. , 2018, , .		1

#	ARTICLE	IF	CITATIONS
541	Boosting Photoelectrochemical Water Oxidation of Hematite by Surface States Modification. SSRN Electronic Journal, 0, , .	0.4	1
542	Voltage-controlled three-electron-beam interference by a three-element Boersch phase shifter with top and bottom shielding electrodes. , 2021, , .		1
543	Prospect for measuring two-dimensional van der Waals magnets by electron magnetic chiral dichroism. Ultramicroscopy, 2022, 234, 113476.	0.8	1
544	The Characterisation of The Compositional and Electronic Profiles of Delta-Doped Layers Using Transmission Electron Microscopy. Materials Research Society Symposia Proceedings, 1994, 354, 437.	0.1	0
545	Electrostatic Potentials at $\hat{\Gamma}_1 = 24^\circ$ [001] Tilt Boundaries in Undoped and Doped Strontium Titanate Bicrystals. Materials Research Society Symposia Proceedings, 1996, 458, 109.	0.1	0
546	Microstructure and Thermal Conductivity of AlN(Y2O3) Ceramics. Microscopy and Microanalysis, 2000, 6, 422-423.	0.2	0
547	Magnetic And Structural Characterization Of Biogenic Agnetite. Microscopy and Microanalysis, 2002, 8, 168-169.	0.2	0
548	Electron Holography of Naturally Occurring Nanomagnets in Rocks. Microscopy and Microanalysis, 2003, 9, 92-93.	0.2	0
549	Electron Holography of Magnetic Vortices in Chains of FeNi Nanoparticles. Microscopy and Microanalysis, 2003, 9, 310-311.	0.2	0
550	Scanning Transmission Electron Tomography. Microscopy and Microanalysis, 2006, 12, 1348-1349.	0.2	0
551	Nanoscale Structural and Magnetic Characterization Using Electron Microscopy. , 2006, , 119-145.		0
552	Dopant profiling in the TEM, progress towards quantitative electron holography.. AIP Conference Proceedings, 2007, , .	0.3	0
553	Ge nanostructures doped silica-on-silicon waveguides. Proceedings of SPIE, 2007, , .	0.8	0
554	Biom mineralization and Magnetism in Magnetotactic Bacteria. Microscopy and Microanalysis, 2009, 15, 90-91.	0.2	0
555	Towards quantitative three-dimensional characterisation of buried InAs quantum dots. Journal of Physics: Conference Series, 2011, 326, 012046.	0.3	0
556	Direct Observation of Magnetic Interactions at Structural and Compositional Interfaces in Fe-Ti Oxides using Lorentz Microscopy and Electron Holography. Microscopy and Microanalysis, 2011, 17, 1394-1395.	0.2	0
557	Oxidation of nickel particles in an environmental TEM. Microscopy and Microanalysis, 2013, 19, 512-513.	0.2	0
558	Characterization of Multilayer Ferromagnetic Nanowire Arrays Using Off-Axis Electron Holography. Microscopy and Microanalysis, 2013, 19, 1388-1389.	0.2	0



#	ARTICLE	IF	CITATIONS
559	Separation of dopant and mean inner potential contributions to potential profiles recorded from very highly doped semiconductor layers using electron holography. <i>Microscopy and Microanalysis</i> , 2013, 19, 1360-1361.	0.2	0
560	Hybridization of Off-Axis and In-line High-Resolution Electron Holography. <i>Microscopy and Microanalysis</i> , 2014, 20, 272-273.	0.2	0
561	Field Mapping in Semiconductors by Off-axis Electron Holography: From Devices to Graphene and Single Dopant Atoms. <i>Microscopy and Microanalysis</i> , 2014, 20, 254-255.	0.2	0
562	Magnetic Characterization of Isolated CoFeB/Cu Nanowires by Off-Axis Electron Holography. <i>Microscopy and Microanalysis</i> , 2014, 20, 280-281.	0.2	0
563	Atomically Resolved 3D Shape Determination of a MgO Crystal Using a Single Aberration Corrected HRTEM Image. <i>Microscopy and Microanalysis</i> , 2014, 20, 940-941.	0.2	0
564	Visualisation of high temperature magnetisation states in magnetite grains using off-axis electron holography. <i>Journal of Physics: Conference Series</i> , 2015, 644, 012027.	0.3	0
565	Optimising Electron Holography in the Presence of Partial Coherence and Instrument Instabilities with Conventional and Direct Detection Cameras. <i>Microscopy and Microanalysis</i> , 2015, 21, 1955-1956.	0.2	0
566	Hybrid Electron Holography. <i>Microscopy and Microanalysis</i> , 2015, 21, 2311-2312.	0.2	0
567	Introduction to a Special Issue on Frontiers of Aberration Corrected Electron Microscopy dedicated to Harald Rose on the occasion of his 80th Birthday. <i>Ultramicroscopy</i> , 2015, 151, 1.	0.8	0
568	Hollow metal nanostructures for enhanced plasmonics (Conference Presentation). , 2016, , .		0
569	Introduction to a special issue on Frontiers of Aberration Corrected Electron Microscopy in honour of Robert Sinclair and Nestor J. Zaluzec on the occasion of their 70th and 65th birthdays. <i>Ultramicroscopy</i> , 2017, 176, 1.	0.8	0
570	Correlative Transmission Electron Microscopy of Highly Perfect Fe <sub>3</sub> O <sub>4</sub> Nanocubes. <i>Microscopy and Microanalysis</i> , 2017, 23, 1692-1693.	0.2	0
571	Fabrication of highly efficient four-junction solar cells by surface-activated wafer-bonding. , 2017, , .		0
572	Influence of Bulk Polarization and Surface Polarity on Surface Reconstructions and Related Local Properties of Multiferroic BiFeO <sub>3</sub> Film. <i>Microscopy and Microanalysis</i> , 2017, 23, 1662-1663.	0.2	0
573	Observation and Analysis of an Electrically Active Layer at the Core-Shell Interface of a GaN Nanowire by Advanced Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2017, 23, 1406-1407.	0.2	0
574	Visualized Effects of Oxidation and Temperature on Vortex-State Fe <sub>3</sub> O <sub>4</sub> Particles Examined by Environmental TEM and Off-Axis Electron Holography. <i>Microscopy and Microanalysis</i> , 2018, 24, 950-951.	0.2	0
575	Atomic Resolution Imaging of Dislocations in AlGaN and the Efficiency of UV LEDs. <i>Microscopy and Microanalysis</i> , 2018, 24, 4-5.	0.2	0
576	Focused Electron-Beam Induced Deposition, In Situ TEM And Off-Axis Electron Holography Investigation of Bi-Magnetic Core-Shell Nanostructures. <i>Microscopy and Microanalysis</i> , 2019, 25, 56-57.	0.2	0

#	ARTICLE	IF	CITATIONS
577	Model-Based Iterative Reconstruction of Charge Density in Nanoscale Materials using Off-Axis Electron Holography. <i>Microscopy and Microanalysis</i> , 2019, 25, 48-49.	0.2	0
578	Reconstruction of Projected and 3D Magnetization Distributions from Electron-Optical Phase Images using an Iterative Model-Based Algorithm. <i>Microscopy and Microanalysis</i> , 2019, 25, 1806-1807.	0.2	0
579	Observation of oxygen pyramid tilting induced polarization rotation in strained BiFeO <sub>3</sub> thin film. <i>Journal of the American Ceramic Society</i> , 2020, 103, 2828-2834.	1.9	0
580	Three-dimensional Charge Density and Electric Field Mapping of an Electrically Biased Needle Using Off-axis Electron Holography. <i>Microscopy and Microanalysis</i> , 2020, 26, 1540-1542.	0.2	0
581	Extraction of 3D quantitative maps using EDS-STEM tomography and HAADF-EDS bimodal tomography. <i>Ultramicroscopy</i> , 2021, 220, 113166.	0.8	0
582	Introduction to a special issue on Frontiers of Aberration Corrected Electron Microscopy in honour of Wolfgang Baumeister, Colin Humphreys, John Spence and Knut Urban on the occasion of their 75th, 80th, 75th and 80th birthdays. <i>Ultramicroscopy</i> , 2021, 231, 113290.	0.8	0
583	Combining quantitative ADF STEM with SiNx membrane-based MEMS devices: A simulation study with Pt nanoparticles. <i>Ultramicroscopy</i> , 2021, 231, 113270.	0.8	0
584	Multifunctional Noble Metal Phosphide Electrocatalysts for the Organic Molecule Electro-Oxidation. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 2073-2073.	0.0	0
585	Magnetic Nanoparticles: Unravelling Magnetic Nanochain Formation in Dispersion for In Vivo Applications ( <i>Adv. Mater.</i> 24/2021). <i>Advanced Materials</i> , 2021, 33, 2170189.	11.1	0
586	In situ transmission electron microscopy of magnetic transitions. <i>Microscopy and Microanalysis</i> , 2021, 27, 2174-2176.	0.2	0
587	How much can inelastically scattered electrons contribute to electron cryotomography of biological specimens?. <i>Microscopy and Microanalysis</i> , 2021, 27, 3212-3214.	0.2	0
588	Estimating illumination coherence width from focused-probe intensity profiles. <i>Microscopy and Microanalysis</i> , 2021, 27, 738-740.	0.2	0
589	10.1063/1.4942462.1., 2016, , .		0
590	Facet formation in Si layers selectively grown on patterned substrates studied by different electron microscopy techniques. , 2018, , 239-242.		0
591	Simulations of the electrostatic potential distribution in a TEM sample of a semiconductor device. , 2018, , 501-504.		0
592	The application of advanced TEM techniques to the characterisation of an asymmetric spacer layer tunnel diode. , 2018, , 53-56.		0
593	3D analysis of semiconductor structures using STEM tomography. , 2018, , 541-544.		0
594	Magnetic Field Mapping using Off-Axis Electron Holography in the Transmission Electron Microscope. <i>Journal of Visualized Experiments</i> , 2020, , .	0.2	0

#	ARTICLE	IF	CITATIONS
595	Towards quantitative electron holography of electrostatic potentials in doped semiconductors. , 2005, , 225-228.		0
596	Dopant Profiling in the TEM: Progress Towards Quantitative Electron Holography. Springer Proceedings in Physics, 2008, , 391-394.	0.1	0
597	Advanced Focused Ion Beam Specimen Preparation for Examination by Off-Axis Electron Holography. Springer Proceedings in Physics, 2008, , 441-444.	0.1	0
598	A Novel 1-D Conjugated Cobalt Tetraaza[14]Annulene Organic Framework for Efficient Electrocatalytic Co2 Reduction. SSRN Electronic Journal, 0, , .	0.4	0