Paul Midgley

List of Publications by Year
in descending order

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371 papers	19,391 citations	12303 69 h-index	14702 127 g-index
410 all docs	410 docs citations	410 times ranked	22083 citing authors

#	Article	IF	Citations
1	3D electron microscopy in the physical sciences: the development of Z-contrast and EFTEM tomography. Ultramicroscopy, 2003, 96, 413-431.	0.8	964
2	Electron tomography and holography in materials science. Nature Materials, 2009, 8, 271-280.	13.3	761
3	Double conical beam-rocking system for measurement of integrated electron diffraction intensities. Ultramicroscopy, 1994, 53, 271-282.	0.8	647
4	High-Performance Nanocatalysts for Single-Step Hydrogenations. Accounts of Chemical Research, 2003, 36, 20-30.	7.6	553
5	Direct imaging of single-walled carbon nanotubes in cells. Nature Nanotechnology, 2007, 2, 713-717.	15.6	539
6	A heterogeneous single-atom palladium catalyst surpassing homogeneous systems for Suzuki coupling. Nature Nanotechnology, 2018, 13, 702-707.	15.6	471
7	Three-dimensional imaging of localized surface plasmon resonances of metal nanoparticles. Nature, 2013, 502, 80-84.	13.7	450
8	Learning from Nature to Improve the Heat Generation of Iron-Oxide Nanoparticles for Magnetic Hyperthermia Applications. Scientific Reports, 2013, 3, 1652.	1.6	442
9	Electron tomography. Materials Today, 2004, 7, 32-40.	8.3	409
10	A solâ€“gel monolithic metalâ€“organic framework with enhanced methane uptake. Nature Materials, 2018, 17, 174-179.	13.3	386
11	Structureâ^'Activity Relationship in Nanostructured Copperâ^'Ceria-Based Preferential CO Oxidation Catalysts. Journal of Physical Chemistry C, 2007, 111, 11026-11038.	1.5	296
12	Charge-ordered ferromagnetic phase in La0.5Ca0.5MnO3. Nature, 2002, 420, 797-800.	13.7	290
13	Encapsulation for long-term stability enhancement of perovskite solar cells. Nano Energy, 2016, 30, 162-172.	8.2	258
14	Microfluidization of Graphite and Formulation of Graphene-Based Conductive Inks. ACS Nano, 2017, 11, 2742-2755.	7.3	257
15	3D imaging of nanomaterials by discrete tomography. Ultramicroscopy, 2009, 109, 730-740.	0.8	255
16	Performance-limiting nanoscale trap clusters at grain junctions in halide perovskites. Nature, 2020, 580, 360-366.	13.7	255
17	Stabilization of Single Metal Atoms on Graphitic Carbon Nitride. Advanced Functional Materials, 2017, 27, 1605785.	7.8	249
18	Compressed sensing electron tomography. Ultramicroscopy, 2013, 131, 70-91.	0.8	247

#	Article	IF	Citations
19	Z-Contrast tomography: a technique in three-dimensional nanostructural analysis based on Rutherford scattering. Chemical Communications, 2001, , 907-908.	2.2	230
20	Structural and Morphological Characterization of Cerium Oxide Nanocrystals Prepared by Hydrothermal Synthesis. Nano Letters, 2007, 7, 421-425.	4.5	220
21	Nanotomography in the chemical, biological and materials sciences. Chemical Society Reviews, 2007, 36, 1477.	18.7	196
22	Toxicity and imaging of multi-walled carbon nanotubes in human macrophage cells. Biomaterials, 2009, 30, 4152-4160.	5.7	189
23	Formation of M23C6-type precipitates and chromium-depleted zones in austenite stainless steel. Scripta Materialia, 2011, 65, 509-512.	2.6	189
24	Embedded Nanostructures Revealed in Three Dimensions. Science, 2005, 309, 2195-2198.	6.0	167
25	Quantitative Electron Holography of Biased Semiconductor Devices. Physical Review Letters, 2002, 88, 238302.	2.9	160
26	Magnetite morphology and life on Mars. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 13490-13495.	3.3	154
27	Uptake of C60 by human monocyte macrophages, its localization and implications for toxicity: Studied by high resolution electron microscopy and electron tomography. Acta Biomaterialia, 2006, 2, 409-419.	4.1	149
28	Single-Step Conversion of Dimethyl Terephthalate into Cyclohexanedimethanol with Ru5PtSn, a Trimetallic Nanoparticle Catalyst. Angewandte Chemie - International Edition, 2006, 45, 4782-4785.	7.2	148
29	Three-Dimensional Morphology of Iron Oxide Nanoparticles with Reactive Concave Surfaces. A Compressed Sensing-Electron Tomography (CS-ET) Approach. Nano Letters, 2011, 11, 4666-4673.	4.5	148
30	Reducing the missing wedge: High-resolution dual axis tomography of inorganic materials. Ultramicroscopy, 2006, 106, 994-1000.	0.8	144
31	High-Resolution Three-Dimensional Imaging of Dislocations. Science, 2006, 313, 319-319.	6.0	134
32	Gold and iodine diffusion in large area perovskite solar cells under illumination. Nanoscale, 2017, 9, 4700-4706.	2.8	133
33	Single-atom heterogeneous catalysts based on distinct carbon nitride scaffolds. National Science Review, 2018, 5, 642-652.	4.6	132
34	Impedance spectroscopy of epitaxial multiferroic thin films. Physical Review B, 2007, 75, .	1.1	128
35	Electron Tomography of Nanoparticle Catalysts on Porous Supports:Â A New Technique Based on Rutherford Scattering. Journal of Physical Chemistry B, 2001, 105, 7882-7886.	1.2	126
36	Uptake of Noncytotoxic Acid-Treated Single-Walled Carbon Nanotubes into the Cytoplasm of Human Macrophage Cells. ACS Nano, 2009, 3, 1485-1492.	7.3	126

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37	Surface plasmon modes of a single silver nanorod: an electron energy loss study. Optics Express, 2011, 19, 15371.	1.7	126
38	Large-scale ordering of nanoparticles using viscoelastic shear processing. Nature Communications, 2016, 7, 11661.	5.8	123
39	Precession electron diffraction â€“ a topical review. IUCrJ, 2015, 2, 126-136.	1.0	119
40	Four-Dimensional Spectral Tomography of Carbonaceous Nanocomposites. Nano Letters, 2006, 6, 376-379.	4.5	117
41	Weak Charge-Lattice Coupling Requires Reinterpretation of Stripes of Charge Order inLa1â^'xCaxMnO3. Physical Review Letters, 2005, 94, 097202.	2.9	115
42	Visualizing the Uptake of C60to the Cytoplasm and Nucleus of Human Monocyte-Derived Macrophage Cells Using Energy-Filtered Transmission Electron Microscopy and Electron Tomography. Environmental Science & Technology, 2007, 41, 3012-3017.	4.6	115
43	Stabilized tilted-octahedra halide perovskites inhibit local formation of performance-limiting phases. Science, 2021, 374, 1598-1605.	6.0	115
44	Single-Step Process To Prepare CeO₂ Nanotubes with Improved Catalytic Activity. Nano Letters, 2009, 9, 1395-1400.	4.5	113
45	Room temperature ferromagnetism in bulk Mn-Doped Cu[sub 2]O. Applied Physics Letters, 2005, 86, 072514.	1.5	112
46	Revisiting metal fluorides as lithium-ion battery cathodes. Nature Materials, 2021, 20, 841-850.	13.3	109
47	Surface Structure, Hydration, and Cationic Sites of Nanohydroxyapatite:â€‰ UHR-TEM, IR, and Microgravimetric Studies. Journal of Physical Chemistry C, 2007, 111, 4027-4035.	1.5	108
48	Atomâ€byâ€Atom Resolution of Structureâ€“Function Relations over Lowâ€Nuclearity Metal Catalysts. Angewandte Chemie - International Edition, 2019, 58, 8724-8729.	7.2	108
49	An introduction to off-axis electron holography. Micron, 2001, 32, 167-184.	1.1	107
50	Metal-organic framework crystal-glass composites. Nature Communications, 2019, 10, 2580.	5.8	97
51	Mechanical Properties and Processing Techniques of Bulk Metalâ€“Organic Framework Glasses. Journal of the American Chemical Society, 2019, 141, 1027-1034.	6.6	93
52	Measurement of molecular motion in organic semiconductors by thermal diffuse electron scattering. Nature Materials, 2013, 12, 1045-1049.	13.3	91
53	Local nanoscale phase impurities are degradation sites in halide perovskites. Nature, 2022, 607, 294-300.	13.7	89
54	Wave-front phase retrieval in transmission electron microscopy via ptychography. Physical Review B, 2010, 82, .	1.1	86

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55	Bimetallic Ruâ€“Sn Nanoparticle Catalysts for the Solventâ€Free Selective Hydrogenation of 1,5,9â€Cyclododecatriene to Cyclododecene. Angewandte Chemie - International Edition, 2007, 46, 8182-8185.	7.2	82
56	Coarsening behaviour and interfacial structure of Î³â€² precipitates in Co-Al-W based superalloys. Acta Materialia, 2016, 120, 14-23.	3.8	80
57	Morphological Study of Nanoparticleâ^'Polymer Solar Cells Using High-Angle Annular Dark-Field Electron Tomography. Nano Letters, 2011, 11, 904-909.	4.5	76
58	Transition-Metal Decorated Aluminum Nanocrystals. ACS Nano, 2017, 11, 10281-10288.	7.3	76
59	Controlling the speciation and reactivity of carbon-supported gold nanostructures for catalysed acetylene hydrochlorination. Chemical Science, 2019, 10, 359-369.	3.7	76
60	Superconductivity and the incommensurate structural modulation in the heavy fermionUPt3. Physical Review Letters, 1993, 70, 678-681.	2.9	75
61	An endogenous nanomineral chaperones luminal antigen and peptidoglycan to intestinal immune cells. Nature Nanotechnology, 2015, 10, 361-369.	15.6	73
62	Scanning precession electron tomography for three-dimensional nanoscale orientation imaging and crystallographic analysis. Nature Communications, 2015, 6, 7267.	5.8	73
63	On the crystallography and composition of topologically close-packed phases in ATI 718PlusÂ®. Acta Materialia, 2017, 130, 271-280.	3.8	73
64	Do Images of Biskyrmions Show Typeâ€II Bubbles?. Advanced Materials, 2019, 31, e1806598.	11.1	73
65	Characteristics of mixed phase superconductivity in oxygenated La2CuO4+Î´. Physica C: Superconductivity and Its Applications, 1991, 173, 9-24.	0.6	72
66	High-resolution transmission electron microscopy: the ultimate nanoanalytical technique. Chemical Communications, 2004, , 1253-1267.	2.2	72
67	3â€‰D Characterization of Gold Nanoparticles Supported on Heavy Metal Oxide Catalysts by HAADFâ€STEM Electron Tomography. Angewandte Chemie - International Edition, 2009, 48, 5313-5315.	7.2	72
68	Recent Advances in the Application of Electron Tomography to Materials Chemistry. Accounts of Chemical Research, 2012, 45, 1782-1791.	7.6	72
69	Electron Tomography in the (S)TEM: From Nanoscale Morphological Analysis to 3D Atomic Imaging. Annual Review of Materials Research, 2012, 42, 59-79.	4.3	72
70	Differentiation of tin oxides using electron energy-loss spectroscopy. Physical Review B, 2004, 69, .	1.1	71
71	A novel dual-axis iterative algorithm for electron tomography. Journal of Structural Biology, 2006, 153, 55-63.	1.3	70
72	Improved CO Oxidation Activity in the Presence and Absence of Hydrogen over Cluster-Derived PtFe/SiO2Catalysts. Langmuir, 2006, 22, 5160-5167.	1.6	69

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73	Liquid phase blending of metal-organic frameworks. Nature Communications, 2018, 9, 2135.	5.8	69
74	Flux melting of metalâ€“organic frameworks. Chemical Science, 2019, 10, 3592-3601.	3.7	67
75	High-Resolution Three-Dimensional Mapping of Semiconductor Dopant Potentials. Nano Letters, 2007, 7, 2020-2023.	4.5	66
76	Extending Energy-Filtered Transmission Electron Microscopy (EFTEM) into Three Dimensions Using Electron Tomography. Microscopy and Microanalysis, 2003, 9, 542-555.	0.2	65
77	High-angle triple-axis specimen holder for three-dimensional diffraction contrast imaging in transmission electron microscopy. Ultramicroscopy, 2011, 111, 1168-1175.	0.8	65
78	Synthesis and Properties of a Compositional Series of MIL-53(Al) Metalâ€“Organic Framework Crystal-Glass Composites. Journal of the American Chemical Society, 2019, 141, 15641-15648.	6.6	65
79	Direct Imaging of Correlated Defect Nanodomains in a Metalâ€“Organic Framework. Journal of the American Chemical Society, 2020, 142, 13081-13089.	6.6	65
80	The Chemical Application of High-Resolution Electron Tomography: Bright Field or Dark Field?. Angewandte Chemie - International Edition, 2004, 43, 6745-6747.	7.2	64
81	Nanoscale analysis of three-dimensional structures by electron tomography. Scripta Materialia, 2006, 55, 29-33.	2.6	64
82	On the precipitation of delta phase in ALLVAC^{Â®}718Plus. Philosophical Magazine, 2014, 94, 1132-1152.	0.7	64
83	Toward Three-Dimensional Nanoengineering of Heterogeneous Catalysts. Journal of the American Chemical Society, 2008, 130, 5716-5719.	6.6	63
84	Image-spectroscopy â€“ I. The advantages of increased spectral information for compositional EFTEM analysis. Ultramicroscopy, 2001, 88, 179-186.	0.8	62
85	Three-Dimensional Nanoparticle Distribution and Local Curvature of Heterogeneous Catalysts Revealed by Electron Tomography. Journal of Physical Chemistry C, 2007, 111, 11501-11505.	1.5	62
86	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
87	Highâ€resolution imaging of nanoparticle bimetallic catalysts supported on mesoporous silica. Catalysis Letters, 1999, 60, 113-120.	1.4	58
88	Extended ptychography in the transmission electron microscope: Possibilities and limitations. Ultramicroscopy, 2011, 111, 1117-1123.	0.8	58
89	Solâ€“Gel Synthesis of Robust Metalâ€“Organic Frameworks for Nanoparticle Encapsulation. Advanced Functional Materials, 2018, 28, 1705588.	7.8	58
90	High-Resolution Scanning Transmission Electron Tomography and Elemental Analysis of Zeptogram Quantities of Heterogeneous Catalyst. Journal of Physical Chemistry B, 2004, 108, 4590-4592.	1.2	57

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91	3D Visualization of the Iron Oxidation State in FeO/Fe₃O₄Coreâ€“Shell Nanocubes from Electron Energy Loss Tomography. Nano Letters, 2016, 16, 5068-5073.	4.5	56
92	Using Highly Accurate 3D Nanometrology to Model the Optical Properties of Highly Irregular Nanoparticles: A Powerful Tool for Rational Design of Plasmonic Devices. Nano Letters, 2010, 10, 2097-2104.	4.5	54
93	Local Crystallinity in Twisted Cellulose Nanofibers. ACS Nano, 2021, 15, 2730-2737.	7.3	53
94	Eigenmode Tomography of Surface Charge Oscillations of Plasmonic Nanoparticles by Electron Energy Loss Spectroscopy. ACS Photonics, 2015, 2, 1628-1635.	3.2	51
95	TEM characterization of Ge precipitates in an Alâ€“1.6at% Ge alloy. Ultramicroscopy, 2008, 108, 210-220.	0.8	50
96	Laser Treatment of Ag@ZnO Nanorods as Long-Life-Span SERS Surfaces. ACS Applied Materials & Interfaces, 2015, 7, 2331-2339.	4.0	50
97	Three-dimensional real-space crystallography of MCM-48 mesoporous silica revealed by scanning transmission electron tomography. Chemical Physics Letters, 2006, 418, 540-543.	1.2	49
98	Multicomponent Signal Unmixing from Nanoheterostructures: Overcoming the Traditional Challenges of Nanoscale X-ray Analysis via Machine Learning. Nano Letters, 2015, 15, 2716-2720.	4.5	49
99	Microstructure and Solidification Sequence of the Interdendritic Region in a Third Generation Single-Crystal Nickel-Base Superalloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2009, 40, 1660-1669.	1.1	48
100	Three-dimensional electron backscattered diffraction analysis of deformation in MgO micropillars. Acta Materialia, 2011, 59, 7241-7254.	3.8	47
101	Compressed sensing electron tomography of needle-shaped biological specimens â€“ Potential for improved reconstruction fidelity with reduced dose. Ultramicroscopy, 2016, 160, 230-238.	0.8	47
102	Three-dimensional analysis of dislocation networks in GaN using weak-beam dark-field electron tomography. Philosophical Magazine, 2006, 86, 4901-4922.	0.7	46
103	Progress and opportunities in EELS and EDS tomography. Ultramicroscopy, 2017, 180, 133-141.	0.8	46
104	Crystallographic Order in Multi-Walled Carbon Nanotubes Synthesized in the Presence of Nitrogen. Small, 2006, 2, 774-784.	5.2	44
105	Nanoscale scanning transmission electron tomography. Journal of Microscopy, 2006, 223, 185-190.	0.8	44
106	Refining structures against reflection rank: an alternative metric for electron crystallography. Acta Crystallographica Section A: Foundations and Advances, 2012, 68, 352-358.	0.3	43
107	Off-axis electron holography of electrostatic potentials in unbiased and reverse biased focused ion beam milled semiconductor devices. Journal of Microscopy, 2004, 214, 287-296.	0.8	42
108	Resonances of nanoparticles with poor plasmonic metal tips. Scientific Reports, 2015, 5, 17431.	1.6	42

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109	A simple new method to obtain high angular resolution ï‰â€“q patterns. Ultramicroscopy, 1999, 76, 91-96.	0.8	41
110	Quantitative electron holographic tomography for the 3D characterisation of semiconductor device structures. Ultramicroscopy, 2008, 108, 1401-1407.	0.8	41
111	Superhydrophobic supported Ag-NPs@ZnO-nanorods with photoactivity in the visible range. Journal of Materials Chemistry, 2012, 22, 1341-1346.	6.7	41
112	Electron Energy Loss Spectroscopy Investigation into Symmetry in Gold Trimer and Tetramer Plasmonic Nanoparticle Structures. ACS Nano, 2016, 10, 8552-8563.	7.3	41
113	Measurement of three-dimensional intensity data in electron diffraction by the precession technique. Ultramicroscopy, 1998, 74, 147-157.	0.8	40
114	Î±-Ga2O3 grown by low temperature atomic layer deposition on sapphire. Journal of Crystal Growth, 2018, 487, 23-27.	0.7	40
115	Conventional and back-side focused ion beam milling for off-axis electron holography of electrostatic potentials in transistors. Ultramicroscopy, 2005, 103, 67-81.	0.8	39
116	The location of gold nanoparticles on titania: A study by high resolution aberration-corrected electron microscopy and 3D electron tomography. Catalysis Today, 2011, 160, 165-169.	2.2	38
117	Quantitative High-Angle Annular Dark-Field Scanning Transmission Electron Microscope (HAADF-STEM) Tomography and High-Resolution Electron Microscopy of Unsupported Intermetallic GaPd₂ Catalysts. Journal of Physical Chemistry C, 2012, 116, 13343-13352.	1.5	38
118	Electronic structure of tin oxides by electron energy loss spectroscopy and real-space multiple scattering calculations. Physical Review B, 2005, 71, .	1.1	37
119	3-D characterization of CdSe nanoparticles attached to carbon nanotubes. Nano Research, 2008, 1, 89-97.	5.8	37
120	Reduced-dose and high-speed acquisition strategies for multi-dimensional electron microscopy. Advanced Structural and Chemical Imaging, 2015, 1, .	4.0	37
121	Unsupervised machine learning applied to scanning precession electron diffraction data. Advanced Structural and Chemical Imaging, 2019, 5, .	4.0	37
122	Magnetic domain-wall width inLa0.7Ca0.3MnO3thin films measured using Fresnel imaging. Physical Review B, 2001, 64, .	1.1	36
123	Severe local strain and the plastic deformation of Guinierâ€“Preston zones in the Alâ€“Ag system revealed by three-dimensional electron tomography. Acta Materialia, 2006, 54, 2957-2963.	3.8	36
124	Structural Surface Investigations of Ceriumâ^'Zirconium Mixed Oxide Nanocrystals with Enhanced Reducibility. Journal of Physical Chemistry C, 2007, 111, 9001-9004.	1.5	36
125	Dislocation tomography made easy: a reconstruction from ADF STEM images obtained using automated image shift correction. Journal of Physics: Conference Series, 2008, 126, 012013.	0.3	36
126	Is precession electron diffraction kinematical? Part I:. Ultramicroscopy, 2010, 110, 763-770.	0.8	36

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127	Dislocation electron tomography and precession electron diffraction â€“ minimising the effects of dynamical interactions in real and reciprocal space. Philosophical Magazine, 2010, 90, 4711-4730.	0.7	36
128	Nanomagnetic properties of the meteorite cloudy zone. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E11436-E11445.	3.3	36
129	Image-spectroscopy â€“ II. The removal of plural scattering from extended energy-filtered series by Fourier deconvolution. Ultramicroscopy, 2001, 88, 187-194.	0.8	35
130	Off-Axis Electron Holography of Unbiased and Reverse-Biased Focused Ion Beam Milled Sip-nJunctions. Microscopy and Microanalysis, 2005, 11, 66-78.	0.2	35
131	Multi-scale three-dimensional characterization of iron particles in dusty olivine: Implications for paleomagnetism of chondritic meteorites. American Mineralogist, 2016, 101, 2070-2084.	0.9	35
132	A novel 3D absorption correction method for quantitative EDX-STEM tomography. Ultramicroscopy, 2016, 160, 118-129.	0.8	35
133	Crystallographic relationships of T-/S-phase aggregates in an Alâ€“Cuâ€“Mgâ€“Ag alloy. Acta Materialia, 2019, 166, 587-596.	3.8	35
134	An Introduction to Energy-Filtered Transmission Electron Microscopy. Topics in Catalysis, 2002, 21, 109-138.	1.3	34
135	Morphology of SBA-15-directed by association processes and surface energies. Physical Chemistry Chemical Physics, 2009, 11, 10973.	1.3	34
136	Excitation dependent Fano-like interference effects in plasmonic silver nanorods. Physical Review B, 2014, 90, .	1.1	33
137	Highly anisotropic distribution of iron nanoparticles within MCM-41 Mesoporous Silica. Micron, 2006, 37, 52-56.	1.1	32
138	Incorporation of platinum nanoparticles in ordered mesoporous carbon. Journal of Colloid and Interface Science, 2007, 305, 204-208.	5.0	32
139	On three-dimensional misorientation spaces. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2017, 473, 20170274.	1.0	32
140	Microcavity-like exciton-polaritons can be the primary photoexcitation in bare organic semiconductors. Nature Communications, 2021, 12, 6519.	5.8	32
141	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
142	Electron Tomography Imaging and Analysis of Î³â€² and Î³ Domains in Niâ€based Superalloys. Advanced Materials, 2008, 20, 1905-1909.	11.1	31
143	Large dielectric response to the paramagnetic-ferromagnetic transition<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mrow><mml:mo>(</mml:mo><mml:mrow><mml:msub><mml:mi>T</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:mi>x</mml:mi></mml:mrow><mml:mo>)</mml:mo></mml:mrow></mml:mrow></mml:math> multiferroic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi></mml:mi>, Physical Review B, 2009, 79, .	1.1	31
144	Structure determination of the intermediate tin oxide Sn₃O₄ by precession electron diffraction. Zeitschrift FÃ¼r Kristallographie, 2010, 225, 56-66.	1.1	31

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145	Is precession electron diffraction kinematical? Part II. Ultramicroscopy, 2010, 110, 771-777.	0.8	30
146	Denoising time-resolved microscopy image sequences with singular value thresholding. Ultramicroscopy, 2017, 178, 112-124.	0.8	30
147	Quantitative zone-axis convergent-beam electron diffraction (CBED) studies of metals. I. Structure-factor measurements. Acta Crystallographica Section A: Foundations and Advances, 1999, 55, 471-479.	0.3	29
148	Activation of Copper Species on Carbon Nitride for Enhanced Activity in the Arylation of Amines. ACS Catalysis, 2020, 10, 11069-11080.	5.5	29
149	Quantitative offâ€axis electron holography of GaAs pâ€n junctions prepared by focused ion beam milling. Journal of Microscopy, 2009, 233, 102-113.	0.8	28
150	A new approach to the investigation of nanoparticles: Electron tomography with compressed sensing. Journal of Colloid and Interface Science, 2013, 392, 7-14.	5.0	28
151	High-resolution scanning precession electron diffraction: Alignment and spatial resolution. Ultramicroscopy, 2017, 174, 79-88.	0.8	28
152	Functional Group Mapping by Electron Beam Vibrational Spectroscopy from Nanoscale Volumes. Nano Letters, 2020, 20, 1272-1279.	4.5	28
153	Structural and Optical Properties of Discrete Dendritic Pt Nanoparticles on Colloidal Au Nanoprisms. Journal of Physical Chemistry C, 2016, 120, 20843-20851.	1.5	27
154	Directional sinogram inpainting for limited angle tomography. Inverse Problems, 2019, 35, 024004.	1.0	27
155	Strain control of superlattice implies weak charge-lattice coupling inLa0.5Ca0.5MnO3. Physical Review B, 2006, 73, .	1.1	26
156	Formation of Intergranular M23C6 in Sensitized Type-347 Stainless Steel. ISIJ International, 2014, 54, 148-152.	0.6	26
157	Singleâ€crystal magnetic metal films on GaAs grown by electrodeposition. Applied Physics Letters, 1995, 67, 1316-1318.	1.5	25
158	Bimetallic Cluster Provides a Higher Activity Electrocatalyst for Methanol Oxidation. Journal of Cluster Science, 2007, 18, 121-130.	1.7	25
159	Three-dimensional analysis of BaZrO3 pinning centers gives isotropic superconductivity in GdBa2Cu3O7â˜Î´. Journal of Applied Physics, 2010, 108, 063901.	1.1	25
160	Nanoscale electron tomography and atomic scale high-resolution electron microscopy of nanoparticles and nanoclusters: A short surveyNanoscale electron tomography and atomic scale high-resolution electron microscopy of nanoparticles and nanoclusters: A short surveyretain->. Progress in Natural Science: Materials International, 2013, 23, 222-234.	1.8	25
161	Some Turning Points in the Chemical Electron Microscopic Study of Heterogeneous Catalysts. ChemCatChem, 2013, 5, 2560-2579.	1.8	25
162	The rapidly changing face of electron microscopy. Chemical Physics Letters, 2015, 631-632, 103-113.	1.2	25

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163	Hardness and microstructural variation of Alâ€“Mgâ€“Mnâ€“Scâ€“Zr alloy. Micron, 2016, 82, 1-8.	1.1	25
164	Anomalous diffusion of single metal atoms on a graphene oxide support. Chemical Physics Letters, 2017, 683, 370-374.	1.2	25
165	Crystal Face Distributions and Surface Site Densities of Two Synthetic Goethites: Implications for Adsorption Capacities as a Function of Particle Size. Langmuir, 2017, 33, 8924-8932.	1.6	25
166	Quantitative electron diffraction: From atoms to bonds. Contemporary Physics, 1996, 37, 441-456.	0.8	24
167	Measurement of Debyeâ€“Waller factors by electron precession. Ultramicroscopy, 1998, 75, 61-67.	0.8	24
168	Micromagnetic Imaging to Determine the Nature of the Ferromagnetic Phase Transition inLa0.7Ca0.3MnO3. Physical Review Letters, 2006, 96, 027214.	2.9	24
169	Secondary magnetite in ancient zircon precludes analysis of a Hadean geodynamo. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 407-412.	3.3	24
170	Fabrication and characterization of TiNâ€“Ag nano-dice. Micron, 2009, 40, 308-312.	1.1	23
171	The modern electron microscope: A cornucopia of chemico-physical insights. Chemical Physics, 2011, 385, 1-10.	0.9	23
172	Precession Electron Diffraction. Advances in Imaging and Electron Physics, 2012, 170, 1-63.	0.1	23
173	Subwavelength Spatially Resolved Coordination Chemistry of Metalâ€“Organic Framework Glass Blends. Journal of the American Chemical Society, 2018, 140, 17862-17866.	6.6	23
174	Multiâ€Dimensional Electron Microscopy. Angewandte Chemie - International Edition, 2014, 53, 8614-8617.	7.2	22
175	Visualization of the three-dimensional microstructure of TiO2 nanotubes by electron tomography. Catalysis Today, 2009, 143, 225-229.	2.2	21
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