

# Paul Midgley

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5658515/publications.pdf>

Version: 2024-02-01

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	A structure determination protocol based on combined analysis of 3D-ED data, powder XRD data, solid-state NMR data and DFT-D calculations reveals the structure of a new polymorph Comparative study of the structural and magnetic properties of $Mn_3Sb_2S_7$	3.7	15
2	Unveiling the Interaction Mechanisms of Electron and X-ray Radiation with Halide Perovskite Semiconductors using Scanning Nanoprobe Diffraction. Advanced Materials, 2022, 34, e2200383.	0.9	9
3	Local nanoscale phase impurities are degradation sites in halide perovskites. Nature, 2022, 607, 294-300.	11.1	13
4	Microstructural and mechanical characterisation of a second generation hybrid metal extrusion & bonding aluminium-steel butt joint. Materials Characterization, 2021, 173, 110761.	13.7	89
5	Revisiting metal fluorides as lithium-ion battery cathodes. Nature Materials, 2021, 20, 841-850.	1.9	9
6	Local Crystallinity in Twisted Cellulose Nanofibers. ACS Nano, 2021, 15, 2730-2737.	13.3	109
7	Scanning electron diffraction tomography of strain. Inverse Problems, 2021, 37, 015003.	7.3	53
8	Microcavity-like exciton-polaritons can be the primary photoexcitation in bare organic semiconductors. Nature Communications, 2021, 12, 6519.	1.0	7
9	Stabilized tilted-octahedra halide perovskites inhibit local formation of performance-limiting phases. Science, 2021, 374, 1598-1605.	5.8	32
10	Nanocrystal segmentation in scanning precession electron diffraction data. Journal of Microscopy, 2020, 279, 158-167.	6.0	115
11	Activation of Copper Species on Carbon Nitride for Enhanced Activity in the Arylation of Amines. ACS Catalysis, 2020, 10, 11069-11080.	0.8	14
12	A new route to porous metal-organic framework crystal-glass composites. Chemical Science, 2020, 11, 9910-9918.	5.5	29
13	Magnetic Vortex States in Toroidal Iron Oxide Nanoparticles: Combining Micromagnetics with Tomography. Nano Letters, 2020, 20, 7405-7412.	3.7	21
14	Factors Governing the Chemical Stability of Shear-Exfoliated ZnSe(alkylamine) II-VI Layered Hybrids. Chemistry of Materials, 2020, 32, 2379-2388.	4.5	13
15	Direct Imaging of Correlated Defect Nanodomains in a Metal-Organic Framework. Journal of the American Chemical Society, 2020, 142, 13081-13089.	3.2	3
16	Functional Group Mapping by Electron Beam Vibrational Spectroscopy from Nanoscale Volumes. Nano Letters, 2020, 20, 1272-1279.	6.6	65
17	Performance-limiting nanoscale trap clusters at grain junctions in halide perovskites. Nature, 2020, 580, 360-366.	4.5	28
18		13.7	255

#	ARTICLE	IF	CITATIONS
19	Density-based clustering of crystal (mis)orientations and the <i>orix</i> Python library. <i>Journal of Applied Crystallography</i> , 2020, 53, 1293-1298.	1.9	17
20	Electron Ptychography Using Fast Binary 4D STEM Data. <i>Microscopy and Microanalysis</i> , 2019, 25, 1662-1663.	0.2	3
21	Scan Strategies for Electron Energy Loss Spectroscopy at Optical and Vibrational Energies in Perylene Diimide Nanobelts. <i>Microscopy and Microanalysis</i> , 2019, 25, 1738-1739.	0.2	1
22	Local Coordination in Metal-Organic Frameworks Probed in the Vibrational and Optical Regime by EELS. <i>Microscopy and Microanalysis</i> , 2019, 25, 606-607.	0.2	0
23	Mapping Non-Crystalline Nanostructure in Beam Sensitive Systems With Low-dose Scanning Electron Pair Distribution Function Analysis. <i>Microscopy and Microanalysis</i> , 2019, 25, 1636-1637.	0.2	3
24	Low-Dose Scanning Electron Diffraction Microscopy of Mechanochemically Nanostructured Pharmaceuticals. <i>Microscopy and Microanalysis</i> , 2019, 25, 1746-1747.	0.2	6
25	Multidimensional Electron Diffraction-Microscopy of Cabotegravir Nanocrystals. <i>Microscopy and Microanalysis</i> , 2019, 25, 1942-1943.	0.2	0
26	Synthesis and Properties of a Compositional Series of MIL-53(Al) Metal-Organic Framework Crystal-Glass Composites. <i>Journal of the American Chemical Society</i> , 2019, 141, 15641-15648.	6.6	65
27	Phase diagrams of liquid-phase mixing in multi-component metal-organic framework glasses constructed by quantitative elemental nano-tomography. <i>APL Materials</i> , 2019, 7, .	2.2	18
28	Controlling the speciation and reactivity of carbon-supported gold nanostructures for catalysed acetylene hydrochlorination. <i>Chemical Science</i> , 2019, 10, 359-369.	3.7	76
29	Metal-organic framework crystal-glass composites. <i>Nature Communications</i> , 2019, 10, 2580.	5.8	97
30	Atom-by-Atom Resolution of Structure-Function Relations over Low-Nuclearity Metal Catalysts. <i>Angewandte Chemie</i> , 2019, 131, 8816-8821.	1.6	21
31	Atom-by-Atom Resolution of Structure-Function Relations over Low-Nuclearity Metal Catalysts. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8724-8729.	7.2	108
32	Unsupervised machine learning applied to scanning precession electron diffraction data. <i>Advanced Structural and Chemical Imaging</i> , 2019, 5, .	4.0	37
33	Field Response of Magnetic Vortices in Dusty Olivine From the Semarkona Chondrite. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 1441-1453.	1.0	4
34	Do Images of Biskyrmions Show Type-II Bubbles?. <i>Advanced Materials</i> , 2019, 31, e1806598.	11.1	73
35	Analysis of structural distortion in Eshelby twisted InP nanowires by scanning precession electron diffraction. <i>Nano Research</i> , 2019, 12, 939-946.	5.8	3
36	Flux melting of metal-organic frameworks. <i>Chemical Science</i> , 2019, 10, 3592-3601.	3.7	67

#	ARTICLE	IF	CITATIONS
37	Mechanical Properties and Processing Techniques of Bulk Metal-Organic Framework Glasses. <i>Journal of the American Chemical Society</i> , 2019, 141, 1027-1034.	6.6	93
38	Crystallographic relationships of T/S-phase aggregates in an Al-Cu-Mg-Ag alloy. <i>Acta Materialia</i> , 2019, 166, 587-596.	3.8	35
39	Secondary magnetite in ancient zircon precludes analysis of a Hadean geodynamo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 407-412.	3.3	24
40	Directional sinogram inpainting for limited angle tomography. <i>Inverse Problems</i> , 2019, 35, 024004.	1.0	27
41	Electron Tomography in Materials Science. <i>Springer Handbooks</i> , 2019, , 1279-1329.	0.3	11
42	Diketopyrrolopyrrole pigment core@multi-layer SiO <sub>2</sub> shell with improved photochemical stability. <i>Dyes and Pigments</i> , 2018, 156, 108-115.	2.0	5
43	Single-atom heterogeneous catalysts based on distinct carbon nitride scaffolds. <i>National Science Review</i> , 2018, 5, 642-652.	4.6	132
44	±-Ga <sub>2</sub> O <sub>3</sub> grown by low temperature atomic layer deposition on sapphire. <i>Journal of Crystal Growth</i> , 2018, 487, 23-27.	0.7	40
45	Sol-Gel Synthesis of Robust Metal-Organic Frameworks for Nanoparticle Encapsulation. <i>Advanced Functional Materials</i> , 2018, 28, 1705588.	7.8	58
46	Self-Assembly of the Nonplanar Fe(III) Phthalocyanine Small-Molecule: Unraveling the Impact on the Magnetic Properties of Organic Nanowires. <i>Chemistry of Materials</i> , 2018, 30, 879-887.	3.2	9
47	A sol-gel monolithic metal-organic framework with enhanced methane uptake. <i>Nature Materials</i> , 2018, 17, 174-179.	13.3	386
48	Scanning Electron Diffraction Crystal Mapping at the Nanoscale. <i>Microscopy and Microanalysis</i> , 2018, 24, 182-183.	0.2	3
49	Nanomagnetic properties of the meteorite cloudy zone. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E11436-E11445.	3.3	36
50	Subwavelength Spatially Resolved Coordination Chemistry of Metal-Organic Framework Glass Blends. <i>Journal of the American Chemical Society</i> , 2018, 140, 17862-17866.	6.6	23
51	Atom dynamics and the surface reconstruction of Si(110) revealed using time-resolved electron microscopy. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	9
52	All Mixed Up: Using Machine Learning to Address Heterogeneity in (Natural) Materials. <i>Microscopy and Microanalysis</i> , 2018, 24, 562-563.	0.2	3
53	Advances in the Synthesis and Long-Term Protection of Zero-Valent Iron Nanoparticles. <i>Particle and Particle Systems Characterization</i> , 2018, 35, 1800120.	1.2	12
54	A heterogeneous single-atom palladium catalyst surpassing homogeneous systems for Suzuki coupling. <i>Nature Nanotechnology</i> , 2018, 13, 702-707.	15.6	471

#	ARTICLE	IF	CITATIONS
55	Liquid phase blending of metal-organic frameworks. <i>Nature Communications</i> , 2018, 9, 2135.	5.8	69
56	Denosing time-resolved microscopy image sequences with singular value thresholding. <i>Ultramicroscopy</i> , 2017, 178, 112-124.	0.8	30
57	Microfluidization of Graphite and Formulation of Graphene-Based Conductive Inks. <i>ACS Nano</i> , 2017, 11, 2742-2755.	7.3	257
58	Stabilization of Single Metal Atoms on Graphitic Carbon Nitride. <i>Advanced Functional Materials</i> , 2017, 27, 1605785.	7.8	249
59	Catalysts: Stabilization of Single Metal Atoms on Graphitic Carbon Nitride ( <i>Adv. Funct. Mater.</i> 8/2017). <i>Advanced Functional Materials</i> , 2017, 27, .	7.8	2
60	Progress and opportunities in EELS and EDS tomography. <i>Ultramicroscopy</i> , 2017, 180, 133-141.	0.8	46
61	Anomalous diffusion of single metal atoms on a graphene oxide support. <i>Chemical Physics Letters</i> , 2017, 683, 370-374.	1.2	25
62	On the crystallography and composition of topologically close-packed phases in ATI 718Plus <sup>Å</sup> . <i>Acta Materialia</i> , 2017, 130, 271-280.	3.8	73
63	Gold and iodine diffusion in large area perovskite solar cells under illumination. <i>Nanoscale</i> , 2017, 9, 4700-4706.	2.8	133
64	High-resolution scanning precession electron diffraction: Alignment and spatial resolution. <i>Ultramicroscopy</i> , 2017, 174, 79-88.	0.8	28
65	Transition-Metal Decorated Aluminum Nanocrystals. <i>ACS Nano</i> , 2017, 11, 10281-10288.	7.3	76
66	Entropic Comparison of Atomic-Resolution Electron Tomography of Crystals and Amorphous Materials. <i>Physical Review Letters</i> , 2017, 119, 166101.	2.9	8
67	Data Clustering and Scanning Precession Electron Diffraction for Microanalysis. <i>Microscopy and Microanalysis</i> , 2017, 23, 116-117.	0.2	2
68	The Microstructure of Pharmaceutical Materials Revealed by Scanning Electron Diffraction. <i>Microscopy and Microanalysis</i> , 2017, 23, 1192-1193.	0.2	3
69	Nanoscale Strain Tomography by Scanning Precession Electron Diffraction. <i>Microscopy and Microanalysis</i> , 2017, 23, 1710-1711.	0.2	3
70	Optimization of Three-Dimensional (3D) Chemical Imaging by Soft X-Ray Spectro-Tomography Using a Compressed Sensing Algorithm. <i>Microscopy and Microanalysis</i> , 2017, 23, 951-966.	0.2	11
71	Sub-nanometer surface chemistry and orbital hybridization in lanthanum-doped ceria nano-catalysts revealed by 3D electron microscopy. <i>Scientific Reports</i> , 2017, 7, 5406.	1.6	18
72	Crystal Face Distributions and Surface Site Densities of Two Synthetic Goethites: Implications for Adsorption Capacities as a Function of Particle Size. <i>Langmuir</i> , 2017, 33, 8924-8932.	1.6	25

#	ARTICLE	IF	CITATIONS
73	Multi-Dimensional Multi-Functional Catalytic Architecture: A Selectively Functionalized Three-Dimensional Hierarchically Ordered Macro/Mesoporous Network for Cascade Reactions Analyzed by Electron Tomography. <i>Microscopy and Microanalysis</i> , 2017, 23, 2042-2043.	0.2	3
74	Scanning Precession Electron Diffraction Study of Hybrid Precipitates in a 6xxx Series Aluminium Alloy. <i>Microscopy and Microanalysis</i> , 2017, 23, 114-115.	0.2	0
75	On three-dimensional misorientation spaces. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2017, 473, 20170274.	1.0	32
76	Synthetic mimetics of the endogenous gastrointestinal nanomineral: Silent constructs that trap macromolecules for intracellular delivery. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017, 13, 619-630.	1.7	17
77	Sparsity, Parsimony and Data Reduction - Applications across Multi-Dimensional Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2017, 23, 112-113.	0.2	0
78	Inter-phase Relationships Revealed in 3-Dimensional Orientation Spaces. <i>Microscopy and Microanalysis</i> , 2017, 23, 202-203.	0.2	1
79	Local Layer Stacking and Structural Disorder in Graphene Oxide Studied via Scanning Electron Diffraction.. <i>Microscopy and Microanalysis</i> , 2017, 23, 1754-1755.	0.2	1
80	Improved Data Analysis and Reconstruction Methods for STEM-EDX Tomography. <i>Microscopy and Microanalysis</i> , 2016, 22, 284-285.	0.2	2
81	3D Visualization of the Iron Oxidation State in FeO <sub>3</sub> O <sub>4</sub> Core-Shell Nanocubes from Electron Energy Loss Tomography. <i>Nano Letters</i> , 2016, 16, 5068-5073.	4.5	56
82	Design of Highly Selective Platinum Nanoparticle Catalysts for the Aerobic Oxidation of KAil using Continuous-Flow Chemistry. <i>ChemSusChem</i> , 2016, 9, 423-427.	3.6	9
83	Practical Implementation of Compressive Sensing for High Resolution STEM. <i>Microscopy and Microanalysis</i> , 2016, 22, 558-559.	0.2	9
84	Structural changes in FeO <sub>x</sub> /Al <sub>2</sub> O <sub>3</sub> catalysts during ethylbenzene dehydrogenation. <i>Journal of Lithic Studies</i> , 2016, 2, 25-32.	0.1	1
85	Vacuum template synthesis of multifunctional nanotubes with tailored nanostructured walls. <i>Scientific Reports</i> , 2016, 6, 20637.	1.6	14
86	Blind source separation aided characterization of the Î³ strengthening phase in an advanced nickel-based superalloy by spectroscopic 4D electron microscopy. <i>Acta Materialia</i> , 2016, 107, 229-238.	3.8	16
87	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
88	Multi-scale three-dimensional characterization of iron particles in dusty olivine: Implications for paleomagnetism of chondritic meteorites. <i>American Mineralogist</i> , 2016, 101, 2070-2084.	0.9	35
89	Encapsulation for long-term stability enhancement of perovskite solar cells. <i>Nano Energy</i> , 2016, 30, 162-172.	8.2	258
90	A New Method for Determining the Composition of Core-Shell Nanoparticles via Dual-EDX+EELS Spectrum Imaging. <i>Particle and Particle Systems Characterization</i> , 2016, 33, 749-755.	1.2	6

#	ARTICLE	IF	CITATIONS
91	Electron Energy Loss Spectroscopy Investigation into Symmetry in Gold Trimer and Tetramer Plasmonic Nanoparticle Structures. <i>ACS Nano</i> , 2016, 10, 8552-8563.	7.3	41
92	Electron Tomography. , 2016, , 343-376.		5
93	EFTEM. , 2016, , 377-404.		1
94	Coarsening behaviour and interfacial structure of $\text{I}^3\text{a}^2$ precipitates in Co-Al-W based superalloys. <i>Acta Materialia</i> , 2016, 120, 14-23.	3.8	80
95	Large-scale ordering of nanoparticles using viscoelastic shear processing. <i>Nature Communications</i> , 2016, 7, 11661.	5.8	123
96	Nanometer-scale monitoring of quantum-confined Stark effect and emission efficiency droop in multiple GaN/AlN quantum disks in nanowires. <i>Physical Review B</i> , 2016, 93, .	1.1	17
97	Analytical electron tomography. <i>MRS Bulletin</i> , 2016, 41, 531-536.	1.7	12
98	Compressed sensing electron tomography of needle-shaped biological specimens – Potential for improved reconstruction fidelity with reduced dose. <i>Ultramicroscopy</i> , 2016, 160, 230-238.	0.8	47
99	Hardness and microstructural variation of Al–Mg–Mn–Sc–Zr alloy. <i>Micron</i> , 2016, 82, 1-8.	1.1	25
100	A novel 3D absorption correction method for quantitative EDX-STEM tomography. <i>Ultramicroscopy</i> , 2016, 160, 118-129.	0.8	35
101	The Dark Side of EDX Tomography: Modeling Detector Shadowing to Aid 3D Elemental Signal Analysis. <i>Microscopy and Microanalysis</i> , 2015, 21, 759-764.	0.2	13
102	Precession electron diffraction – a topical review. <i>IUCr</i> , 2015, 2, 126-136.	1.0	119
103	Three-dimensional Surface Charge Reconstructions of Surface Plasmon Modes of Silver Right Bipyramids. <i>Microscopy and Microanalysis</i> , 2015, 21, 2225-2226.	0.2	0
104	Resonances of nanoparticles with poor plasmonic metal tips. <i>Scientific Reports</i> , 2015, 5, 17431.	1.6	42
105	Overcoming Traditional Challenges in Nano-scale X-ray Characterization Using Independent Component Analysis. <i>Microscopy and Microanalysis</i> , 2015, 21, 1227-1228.	0.2	0
106	Machine learning as a tool for classifying electron tomographic reconstructions. <i>Advanced Structural and Chemical Imaging</i> , 2015, 1, .	4.0	21
107	Multi-Dimensional Machine Learning Aided Analysis of a Nickel-Based Superalloy. <i>Microscopy and Microanalysis</i> , 2015, 21, 2173-2174.	0.2	1
108	Focused Ion Beam Nanotomography of Chondritic Meteorites: Closing the Mesoscale Length Gap in Paleomagnetic Studies. <i>Microscopy and Microanalysis</i> , 2015, 21, 2261-2262.	0.2	0

#	ARTICLE	IF	CITATIONS
109	Decomposing Electron Diffraction Signals in Multi-Component Microstructures. <i>Microscopy and Microanalysis</i> , 2015, 21, 1241-1242.	0.2	0
110	Reduced-dose and high-speed acquisition strategies for multi-dimensional electron microscopy. <i>Advanced Structural and Chemical Imaging</i> , 2015, 1, .	4.0	37
111	Enhanced quantification for 3D SEM-EDS: Using the full set of available X-ray lines. <i>Ultramicroscopy</i> , 2015, 148, 158-167.	0.8	15
112	Laser Treatment of Ag@ZnO Nanorods as Long-Life-Span SERS Surfaces. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 2331-2339.	4.0	50
113	On the nature of the omega tri-layer periodicity in rapidly cooled Ti-15Mo. <i>Scripta Materialia</i> , 2015, 107, 79-82.	2.6	13
114	An endogenous nanomineral chaperones luminal antigen and peptidoglycan to intestinal immune cells. <i>Nature Nanotechnology</i> , 2015, 10, 361-369.	15.6	73
115	The rapidly changing face of electron microscopy. <i>Chemical Physics Letters</i> , 2015, 631-632, 103-113.	1.2	25
116	Multicomponent Signal Unmixing from Nanoheterostructures: Overcoming the Traditional Challenges of Nanoscale X-ray Analysis via Machine Learning. <i>Nano Letters</i> , 2015, 15, 2716-2720.	4.5	49
117	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
118	Scanning precession electron tomography for three-dimensional nanoscale orientation imaging and crystallographic analysis. <i>Nature Communications</i> , 2015, 6, 7267.	5.8	73
119	Chapter 6. Electron Tomography. <i>RSC Nanoscience and Nanotechnology</i> , 2015, , 211-299.	0.2	1
120	Excitation dependent Fano-like interference effects in plasmonic silver nanorods. <i>Physical Review B</i> , 2014, 90, .	1.1	33
121	On the precipitation of delta phase in ALLVAC <sup>®</sup> 718Plus. <i>Philosophical Magazine</i> , 2014, 94, 1132-1152.	0.7	64
122	Plasmon and compositional mapping of plasmonic nanostructures. , 2014, , .		2
123	Surfactant-free coating of thiols on gold nanoparticles using sonochemistry: A study of competing processes. <i>Ultrasonics Sonochemistry</i> , 2014, 21, 1886-1892.	3.8	8
124	Microstructural Analysis of Au/TiO <sub>2</sub> -SBA-15 Nanocomposite. <i>Microscopy and Microanalysis</i> , 2014, 20, 1001-1007.	0.2	2
125	Multi-Dimensional Electron Microscopy. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 8614-8617.	7.2	22
126	Exploring the benefits of electron tomography to characterize the precise morphology of core-shell Au@Ag nanoparticles and its implications on their plasmonic properties. <i>Nanoscale</i> , 2014, 6, 12696-12702.	2.8	16



#	ARTICLE	IF	CITATIONS
127	High resolution orientation mapping of secondary phases in ATI 718Plus® alloy. MATEC Web of Conferences, 2014, 14, 11002.	0.1	0
128	Formation of Intergranular M23C6 in Sensitized Type-347 Stainless Steel. ISIJ International, 2014, 54, 148-152.	0.6	26
129	Quantitative Electron Tomography of Rubber Composites. Journal of Physics: Conference Series, 2014, 522, 012042.	0.3	2
130	Enhanced Data Generated With Electrons (EDGE) Special Issue Introduction. Microscopy and Microanalysis, 2014, 20, 647-648.	0.2	0
131	Electron tomography provides a direct link between the Payne effect and the inter-particle spacing of rubber composites. Scientific Reports, 2014, 4, 7389.	1.6	17
132	6D electron microscopy: combining real-space and reciprocal-space tomography. Acta Crystallographica Section A: Foundations and Advances, 2014, 70, C368-C368.	0.0	2
133	Measurement of molecular motion in organic semiconductors by thermal diffuse electron scattering. Nature Materials, 2013, 12, 1045-1049.	13.3	91
134	Nanoscale electron tomography and atomic scale high-resolution electron microscopy of nanoparticles and nanoclusters: A short survey Nanoscale electron tomography and atomic scale high-resolution electron microscopy of nanoparticles and nanoclusters: A short survey retain-&gt;. Progress in Natural Science: Materials International, 2013, 23, 222-234.	1.8	25
135	Three-dimensional imaging of localized surface plasmon resonances of metal nanoparticles. Nature, 2013, 502, 80-84.	13.7	450
136	Surface plasmon excitations in metal spheres: Direct comparison of light scattering and electron energy-loss spectroscopy by modal decomposition. Physical Review B, 2013, 87, .	1.1	13
137	Compressed sensing electron tomography. Ultramicroscopy, 2013, 131, 70-91.	0.8	247
138	Self-assembly of one-pot synthesized $Ce_xZr_{1-x}O_2 \cdot BaO \cdot nAl_2O_3$ nanocomposites promoted by site-selective doping of alumina with barium. Journal of Materials Chemistry A, 2013, 1, 3645.	5.2	12
139	Finite element simulations of electrostatic dopant potentials in thin semiconductor specimens for electron holography. Ultramicroscopy, 2013, 134, 160-166.	0.8	21
140	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
141	Ultrafast electron diffraction pattern simulations using GPU technology. Applications to lattice vibrations. Ultramicroscopy, 2013, 134, 44-47.	0.8	13
142	Learning from Nature to Improve the Heat Generation of Iron-Oxide Nanoparticles for Magnetic Hyperthermia Applications. Scientific Reports, 2013, 3, 1652.	1.6	442
143	Some Turning Points in the Chemical Electron Microscopic Study of Heterogeneous Catalysts. ChemCatChem, 2013, 5, 2560-2579.	1.8	25
144	Revealing the Atomic Structure of Intermetallic $GaPd_{2-x}Ni_x$ Nanocatalysts by using Aberration-Corrected Scanning Transmission Electron Microscopy. ChemCatChem, 2013, 5, 2599-2609.	1.8	19

#	ARTICLE	IF	CITATIONS
145	Controlled 3D-coating of the pores of highly ordered mesoporous antiferromagnetic Co <sub>3</sub> O <sub>4</sub> replicas with ferrimagnetic Fe <sub>x</sub> Co <sub>3-x</sub> O <sub>4</sub> nanolayers. <i>Nanoscale</i> , 2013, 5, 5561.	2.8	12
146	Publisher's Note: Magnetic structure of individual flux vortices in superconducting MgB <sub>2</sub> derived using transmission electron microscopy [Phys. Rev. B 87, 144515 (2013)]. <i>Physical Review B</i> , 2013, 87, .	1.1	0
147	Magnetic structure of individual flux vortices in superconducting MgB <sub>2</sub> derived using transmission electron microscopy. <i>Physical Review B</i> , 2013, 87, .	1.1	9
148	Aberration-corrected and energy-filtered precession electron diffraction. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2013, 228, 43-50.	0.4	6
149	NETWORKS OF NANOPARTICLES IN ORGANIC-INORGANIC COMPOSITES: ALGORITHMIC EXTRACTION AND STATISTICAL ANALYSIS. <i>Image Analysis and Stereology</i> , 2012, 31, 27.	0.4	11
150	Quantitative Imaging of Flux Vortices in Superconductors. <i>Journal of Physics: Conference Series</i> , 2012, 391, 012117.	0.3	0
151	Quantitative HAADF-STEM tomography of unsupported intermetallic Ga-Pd catalysts. <i>Journal of Physics: Conference Series</i> , 2012, 371, 012024.	0.3	4
152	Structural Variations of BiMnO <sub>3-x</sub> Revealed by Electron Diffraction. <i>Journal of Physics: Conference Series</i> , 2012, 371, 012033.	0.3	0
153	Determination of the Nature of the Structural Phase Transitions in 122 Pnictide Systems. <i>Journal of Physics: Conference Series</i> , 2012, 391, 012134.	0.3	0
154	Nanoconfinement of Ni clusters towards a high sintering resistance of steam methane reforming catalysts. <i>Catalysis Science and Technology</i> , 2012, 2, 2476.	2.1	20
155	Superhydrophobic supported Ag-NPs@ZnO-nanorods with photoactivity in the visible range. <i>Journal of Materials Chemistry</i> , 2012, 22, 1341-1346.	6.7	41
156	Recent Advances in the Application of Electron Tomography to Materials Chemistry. <i>Accounts of Chemical Research</i> , 2012, 45, 1782-1791.	7.6	72
157	Precession Electron Diffraction. <i>Advances in Imaging and Electron Physics</i> , 2012, 170, 1-63.	0.1	23
158	Direct Visualization of Symmetry Breaking During Janus Nanoparticle Formation. <i>Small</i> , 2012, 8, 2698-2703.	5.2	18
159	Electron Tomography in the (S)TEM: From Nanoscale Morphological Analysis to 3D Atomic Imaging. <i>Annual Review of Materials Research</i> , 2012, 42, 59-79.	4.3	72
160	Quantitative High-Angle Annular Dark-Field Scanning Transmission Electron Microscope (HAADF-STEM) Tomography and High-Resolution Electron Microscopy of Unsupported Intermetallic GaPd <sub>2</sub> Catalysts. <i>Journal of Physical Chemistry C</i> , 2012, 116, 13343-13352.	1.5	38
161	Low voltage STEM imaging of multi-walled carbon nanotubes. <i>Micron</i> , 2012, 43, 428-434.	1.1	11
162	Editorial. <i>Ultramicroscopy</i> , 2012, 113, 192.	0.8	0

#	ARTICLE	IF	CITATIONS
163	Imaging flux vortices in MgB <sub>2</sub> using transmission electron microscopy. <i>Physica C: Superconductivity and Its Applications</i> , 2012, 474, 18-20.	0.6	6
164	Refining structures against reflection rank: an alternative metric for electron crystallography. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2012, 68, 352-358.	0.3	43
165	Soft plasma processing of organic nanowires: a route for the fabrication of 1D organic heterostructures and the template synthesis of inorganic 1D nanostructures. <i>Nanoscale</i> , 2011, 3, 4554.	2.8	20
166	STEM Tomography. , 2011, , 353-392.		6
167	The structure of two new non-centrosymmetric phases of oxygen deficient bismuth manganite. <i>Journal of Materials Chemistry</i> , 2011, 21, 15417.	6.7	9
168	Surface plasmon modes of a single silver nanorod: an electron energy loss study. <i>Optics Express</i> , 2011, 19, 15371.	1.7	126
169	Morphological Study of Nanoparticle~Polymer Solar Cells Using High-Angle Annular Dark-Field Electron Tomography. <i>Nano Letters</i> , 2011, 11, 904-909.	4.5	76
170	Extended ptychography in the transmission electron microscope: Possibilities and limitations. <i>Ultramicroscopy</i> , 2011, 111, 1117-1123.	0.8	58
171	High-angle triple-axis specimen holder for three-dimensional diffraction contrast imaging in transmission electron microscopy. <i>Ultramicroscopy</i> , 2011, 111, 1168-1175.	0.8	65
172	Formation of M <sub>23</sub> C <sub>6</sub> -type precipitates and chromium-depleted zones in austenite stainless steel. <i>Scripta Materialia</i> , 2011, 65, 509-512.	2.6	189
173	Three-Dimensional Morphology of Iron Oxide Nanoparticles with Reactive Concave Surfaces. A Compressed Sensing-Electron Tomography (CS-ET) Approach. <i>Nano Letters</i> , 2011, 11, 4666-4673.	4.5	148
174	Advanced Electron Microscopy Investigation of Ceria~Zirconia~Based Catalysts. <i>ChemCatChem</i> , 2011, 3, 1015-1027.	1.8	16
175	Three-dimensional electron backscattered diffraction analysis of deformation in MgO micropillars. <i>Acta Materialia</i> , 2011, 59, 7241-7254.	3.8	47
176	The location of gold nanoparticles on titania: A study by high resolution aberration-corrected electron microscopy and 3D electron tomography. <i>Catalysis Today</i> , 2011, 160, 165-169.	2.2	38
177	The modern electron microscope: A cornucopia of chemico-physical insights. <i>Chemical Physics</i> , 2011, 385, 1-10.	0.9	23
178	Low-temperature thermal decomposition of crystalline partly and completely deuterated ammonium perchlorate. <i>Chemical Physics Letters</i> , 2011, 504, 185-188.	1.2	9
179	Electronic Bonding Revealed by Electron Diffraction. <i>Science</i> , 2011, 331, 1528-1529.	6.0	18
180	Obstacles and optimisation in weak-beam dark-field tomography of defects. <i>Journal of Physics: Conference Series</i> , 2010, 241, 012007.	0.3	1

#	ARTICLE	IF	CITATIONS
181	A practical approach to test the scope of FIB-SEM 3D reconstruction. Journal of Physics: Conference Series, 2010, 241, 012081.	0.3	7
182	Reconstruction strategies for structure solution using precession electron diffraction data from hybrid inorganic-organic framework materials. Journal of Physics: Conference Series, 2010, 241, 012025.	0.3	1
183	Three-dimensional analysis of BaZrO <sub>3</sub> pinning centers gives isotropic superconductivity in GdBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> . Journal of Applied Physics, 2010, 108, 063901.	1.1	25
184	Is precession electron diffraction kinematical? Part II. Ultramicroscopy, 2010, 110, 771-777.	0.8	30
185	Is precession electron diffraction kinematical? Part I. Ultramicroscopy, 2010, 110, 763-770.	0.8	36
186	Cs corrected STEM EELS: Analysing beam sensitive carbon nanomaterials in cellular structures. Ultramicroscopy, 2010, 110, 946-951.	0.8	3
187	Electron tomography of III-V quantum dots using dark field 002 imaging conditions. Journal of Microscopy, 2010, 237, 148-154.	0.8	5
188	Structure determination of the intermediate tin oxide Sn <sub>3</sub> O <sub>4</sub> by precession electron diffraction. Zeitschrift für Kristallographie, 2010, 225, 56-66.	1.1	31
189	Wave-front phase retrieval in transmission electron microscopy via ptychography. Physical Review B, 2010, 82, .	1.1	86
190	Determination of the nature of the tetragonal to orthorhombic phase transition in $\text{SrFe}_2\text{O}_7$ by measurement of the local order parameter. Physical Review B, 2010, 81, .	1.1	14
191	The absence of charge-density-wave sliding in epitaxial charge-ordered Pr <sub>0.48</sub> Ca <sub>0.52</sub> MnO <sub>3</sub> films. Journal of Physics Condensed Matter, 2010, 22, 275602.	0.7	3
192	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
193	Dislocation electron tomography and precession electron diffraction – minimising the effects of dynamical interactions in real and reciprocal space. Philosophical Magazine, 2010, 90, 4711-4730.	0.7	36
194	Fabrication and characterization of TiN nanocomposite powders fabricated by DC arc-plasma method. Journal of Alloys and Compounds, 2010, 492, 685-690.	2.8	11
195	Site-selective dopant profiling of p-n junction specimens in the dual-beam FIB/SEM system. Journal of Physics: Conference Series, 2010, 209, 012069.	0.3	6
196	Towards Routine Structure Solution using Precession Electron Diffraction. Microscopy and Microanalysis, 2009, 15, 738-739.	0.2	0
197	Nanostructural characterization and catalytic analysis of hybridized platinum/phthalocyanine nanocomposites. Microscopy (Oxford, England), 2009, 58, 289-294.	0.7	5
198	From the Philosopher's Stone to Nanotechnology: Celebrating 800 Years of University of Cambridge (1209-2009). Advanced Materials, 2009, 21, 3825-3826.	11.1	0

#	ARTICLE	IF	CITATIONS
199	3D Characterization of Gold Nanoparticles Supported on Heavy Metal Oxide Catalysts by HAADF-STEM Electron Tomography. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 5313-5315.	7.2	72
200	Imaging flux vortices in type II superconductors with a commercial transmission electron microscope. <i>Ultramicroscopy</i> , 2009, 109, 700-729.	0.8	9
201	Toxicity and imaging of multi-walled carbon nanotubes in human macrophage cells. <i>Biomaterials</i> , 2009, 30, 4152-4160.	5.7	189
202	Microstructure and Solidification Sequence of the Interdendritic Region in a Third Generation Single-Crystal Nickel-Base Superalloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2009, 40, 1660-1669.	1.1	48
203	Symmetry-modified charge flipping. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2009, 65, 120-127.	0.3	17
204	Quantitative off-axis electron holography of GaAs $\text{p-n}$ junctions prepared by focused ion beam milling. <i>Journal of Microscopy</i> , 2009, 233, 102-113.	0.8	28
205	Electron tomography and holography in materials science. <i>Nature Materials</i> , 2009, 8, 271-280.	13.3	761
206	Fabrication and characterization of TiN-Ag nano-dice. <i>Micron</i> , 2009, 40, 308-312.	1.1	23
207	3D imaging of nanomaterials by discrete tomography. <i>Ultramicroscopy</i> , 2009, 109, 730-740.	0.8	255
208	Visualization of the three-dimensional microstructure of TiO <sub>2</sub> nanotubes by electron tomography. <i>Catalysis Today</i> , 2009, 143, 225-229.	2.2	21
209	Scanning Transmission Electron Microscopy Investigation of Differences in the High Temperature Redox Deactivation Behavior of CePrOx Particles Supported on Modified Alumina. <i>Chemistry of Materials</i> , 2009, 21, 1035-1045.	3.2	18
210	Single-Step Process To Prepare CeO <sub>2</sub> Nanotubes with Improved Catalytic Activity. <i>Nano Letters</i> , 2009, 9, 1395-1400.	4.5	113
211	Uptake of Noncytotoxic Acid-Treated Single-Walled Carbon Nanotubes into the Cytoplasm of Human Macrophage Cells. <i>ACS Nano</i> , 2009, 3, 1485-1492.	7.3	126
212	Morphology of SBA-15-directed by association processes and surface energies. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 10973.	1.3	34
213	Large dielectric response to the paramagnetic-ferromagnetic transition $\chi(T) \propto T^{-1}$ in a multiferroic. <i>Physical Review B</i> , 2009, 79, 114407.		
214	Developments in Techniques and Algorithms for Materials-Based Electron Tomography. <i>Microscopy and Microanalysis</i> , 2009, 15, 40-41.	0.2	0
215	3-D characterization of CdSe nanoparticles attached to carbon nanotubes. <i>Nano Research</i> , 2008, 1, 89-97.	5.8	37
216	The frontiers of microscopy. <i>Materials Today</i> , 2008, 11, 8-11.	8.3	11

#	ARTICLE	IF	CITATIONS
217	Mapping the electrical properties of semiconductor junctions—the electron holographic approach. <i>Scanning</i> , 2008, 30, 299-309.	0.7	10
218	Electron Tomography Imaging and Analysis of $\langle i \rangle^3 \langle /i \rangle^2$ and $\langle i \rangle^3 \langle /i \rangle$ Domains in Ni-based Superalloys. <i>Advanced Materials</i> , 2008, 20, 1905-1909.	11.1	31
219	Low-temperature thermal decomposition of large single crystals of ammonium perchlorate. <i>Chemical Physics Letters</i> , 2008, 454, 233-236.	1.2	14
220	TEM characterization of Ge precipitates in an Al-1.6at% Ge alloy. <i>Ultramicroscopy</i> , 2008, 108, 210-220.	0.8	50
221	Quantitative electron holographic tomography for the 3D characterisation of semiconductor device structures. <i>Ultramicroscopy</i> , 2008, 108, 1401-1407.	0.8	41
222	Toward Three-Dimensional Nanoengineering of Heterogeneous Catalysts. <i>Journal of the American Chemical Society</i> , 2008, 130, 5716-5719.	6.6	63
223	Dislocation tomography made easy: a reconstruction from ADF STEM images obtained using automated image shift correction. <i>Journal of Physics: Conference Series</i> , 2008, 126, 012013.	0.3	36
224	Very weak electron-phonon coupling and strong strain coupling in manganites. <i>Physical Review B</i> , 2008, 78, .	1.1	15
225	Limited local electron-lattice coupling in manganites: An electron diffraction study. <i>Physical Review B</i> , 2008, 77, .	1.1	8
226	3D characterization and metrology of nanostructures by electron tomography. <i>Microscopy and Microanalysis</i> , 2008, 14, 284-285.	0.2	1
227	Electron tomography using compositional-sensitive diffraction contrast for 3D characterization of self-assembled semiconductor quantum dots. <i>Microscopy and Microanalysis</i> , 2008, 14, 1052-1053.	0.2	0
228	APPLICATIONS OF ELECTRON TOMOGRAPHY. , 2008, , 335-372.		4
229	FUNDAMENTALS OF ELECTRON TOMOGRAPHY. , 2008, , 305-334.		1
230	3D Characterisation of the Electrostatic Potential in an Electrically Biased Silicon Device. <i>Springer Proceedings in Physics</i> , 2008, , 379-382.	0.1	0
231	Dopant Profiling in the TEM: Progress Towards Quantitative Electron Holography. <i>Springer Proceedings in Physics</i> , 2008, , 391-394.	0.1	0
232	Advanced Focused Ion Beam Specimen Preparation for Examination by Off-Axis Electron Holography. <i>Springer Proceedings in Physics</i> , 2008, , 441-444.	0.1	0
233	Structure solution of intermediate tin oxide, $\text{SnO}_{2-x}$ , by electron precession. , 2008, , 235-236.		0
234	Phase-scrambling multislice simulations of precession electron diffraction. , 2008, , 237-238.		0

#	ARTICLE	IF	CITATIONS
235	STEM electron tomography of gold nanostructures. , 2008, , 311-312.		1
236	Towards a quantitative understanding of precession electron diffraction. , 2008, , 189-190.		0
237	Dopant profiling in the TEM, progress towards quantitative electron holography.. AIP Conference Proceedings, 2007, , .	0.3	0
238	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
239	Nanotomography in the chemical, biological and materials sciences. Chemical Society Reviews, 2007, 36, 1477.	18.7	196
240	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
241	Structural Surface Investigations of Cerium~Zirconium Mixed Oxide Nanocrystals with Enhanced Reducibility. Journal of Physical Chemistry C, 2007, 111, 9001-9004.	1.5	36
242	High-Resolution Three-Dimensional Mapping of Semiconductor Dopant Potentials. Nano Letters, 2007, 7, 2020-2023.	4.5	66
243	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
244	Structure~Activity Relationship in Nanostructured Copper~Ceria-Based Preferential CO Oxidation Catalysts. Journal of Physical Chemistry C, 2007, 111, 11026-11038.	1.5	296
245	Impedance spectroscopy of epitaxial multiferroic thin films. Physical Review B, 2007, 75, .	1.1	128
246	Structural and Morphological Characterization of Cerium Oxide Nanocrystals Prepared by Hydrothermal Synthesis. Nano Letters, 2007, 7, 421-425.	4.5	220
247	Surface Structure, Hydration, and Cationic Sites of Nanohydroxyapatite:~UHR-TEM, IR, and Microgravimetric Studies. Journal of Physical Chemistry C, 2007, 111, 4027-4035.	1.5	108
248	Bimetallic Ru~Sn Nanoparticle Catalysts for the Solvent~Free Selective Hydrogenation of 1,5,9~Cyclododecatriene to Cyclododecene. Angewandte Chemie - International Edition, 2007, 46, 8182-8185.	7.2	82
249	Incorporation of platinum nanoparticles in ordered mesoporous carbon. Journal of Colloid and Interface Science, 2007, 305, 204-208.	5.0	32
250	Direct imaging of single-walled carbon nanotubes in cells. Nature Nanotechnology, 2007, 2, 713-717.	15.6	539
251	Bimetallic Cluster Provides a Higher Activity Electrocatalyst for Methanol Oxidation. Journal of Cluster Science, 2007, 18, 121-130.	1.7	25
252	Four-Dimensional Spectral Tomography of Carbonaceous Nanocomposites. Nano Letters, 2006, 6, 376-379.	4.5	117

#	ARTICLE	IF	CITATIONS
253	Improved CO Oxidation Activity in the Presence and Absence of Hydrogen over Cluster-Derived PtFe/SiO <sub>2</sub> Catalysts. <i>Langmuir</i> , 2006, 22, 5160-5167.	1.6	69
254	A novel dual-axis iterative algorithm for electron tomography. <i>Journal of Structural Biology</i> , 2006, 153, 55-63.	1.3	70
255	Nano-metrology of platinum-ruthenium bimetallic catalysts and the cluster-to-crystal transformation. <i>Journal of Physics: Conference Series</i> , 2006, 26, 207-210.	0.3	3
256	High Resolution STEM Tomography of Nanomaterials. <i>Microscopy and Microanalysis</i> , 2006, 12, 1548-1549.	0.2	0
257	Three-dimensional electrostatic potential of a Si-p-n junction revealed using tomographic electron holography. <i>Journal of Physics: Conference Series</i> , 2006, 26, 29-32.	0.3	9
258	A novel dual-axis reconstruction algorithm for electron tomography. <i>Journal of Physics: Conference Series</i> , 2006, 26, 33-36.	0.3	7
259	Crystal size and shape analysis of Pt nanoparticles in two and three dimensions. <i>Journal of Physics: Conference Series</i> , 2006, 26, 367-370.	0.3	15
260	Nitrogen in highly crystalline carbon nanotubes. <i>Journal of Physics: Conference Series</i> , 2006, 26, 199-202.	0.3	2
261	Crystallographic Order in Multi-Walled Carbon Nanotubes Synthesized in the Presence of Nitrogen. <i>Small</i> , 2006, 2, 774-784.	5.2	44
262	Nanoscale scanning transmission electron tomography. <i>Journal of Microscopy</i> , 2006, 223, 185-190.	0.8	44
263	Severe local strain and the plastic deformation of Guinier-Preston zones in the Al-Ag system revealed by three-dimensional electron tomography. <i>Acta Materialia</i> , 2006, 54, 2957-2963.	3.8	36
264	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. <i>Applied Surface Science</i> , 2006, 252, 3977-3983.	3.1	9
265	Three-dimensional real-space crystallography of MCM-48 mesoporous silica revealed by scanning transmission electron tomography. <i>Chemical Physics Letters</i> , 2006, 418, 540-543.	1.2	49
266	As-As dimerization, Fermi surfaces and the anomalous electrical transport properties of UAsSe and ThAsSe. <i>Journal of Solid State Chemistry</i> , 2006, 179, 2190-2198.	1.4	5
267	Reducing the missing wedge: High-resolution dual axis tomography of inorganic materials. <i>Ultramicroscopy</i> , 2006, 106, 994-1000.	0.8	144
268	High-Resolution Three-Dimensional Imaging of Dislocations. <i>Science</i> , 2006, 313, 319-319.	6.0	134
269	Uptake of C <sub>60</sub> by human monocyte macrophages, its localization and implications for toxicity: Studied by high resolution electron microscopy and electron tomography. <i>Acta Biomaterialia</i> , 2006, 2, 409-419.	4.1	149
270	Highly anisotropic distribution of iron nanoparticles within MCM-41 Mesoporous Silica. <i>Micron</i> , 2006, 37, 52-56.	1.1	32



#	ARTICLE	IF	CITATIONS
271	Nanoscale analysis of three-dimensional structures by electron tomography. Scripta Materialia, 2006, 55, 29-33.	2.6	64
272	Single-Step Conversion of Dimethyl Terephthalate into Cyclohexanedimethanol with Ru <sub>5</sub> PtSn, a Trimetallic Nanoparticle Catalyst. Angewandte Chemie - International Edition, 2006, 45, 4782-4785.	7.2	148
273	Local study of the magnetism of Co-doped ZnO thin films. Journal Physics D: Applied Physics, 2006, 39, 1739-1742.	1.3	9
274	Comparison of the ferromagnetic phase transitions in La <sub>0.7</sub> Ca <sub>0.3</sub> MnO <sub>3</sub> and single crystal nickel by micromagnetic imaging. Philosophical Magazine, 2006, 86, 2941-2956.	0.7	2
275	Three-dimensional analysis of dislocation networks in GaN using weak-beam dark-field electron tomography. Philosophical Magazine, 2006, 86, 4901-4922.	0.7	46
276	Comparison of off-axis and in-line electron holography as quantitative dopant-profiling techniques. Philosophical Magazine, 2006, 86, 5805-5823.	0.7	18
277	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
278	Weak-beam dark-field electron tomography of dislocations in GaN. Journal of Physics: Conference Series, 2006, 26, 247-250.	0.3	17
279	Electron tomography of Pt nanocatalyst particles and their carbon support. Journal of Physics: Conference Series, 2006, 26, 203-206.	0.3	8
280	Strain control of superlattice implies weak charge-lattice coupling in La <sub>0.5</sub> Ca <sub>0.5</sub> MnO <sub>3</sub> . Physical Review B, 2006, 73, .	1.1	26
281	Micromagnetic Imaging to Determine the Nature of the Ferromagnetic Phase Transition in La <sub>0.7</sub> Ca <sub>0.3</sub> MnO <sub>3</sub> . Physical Review Letters, 2006, 96, 027214.	2.9	24
282	Advances in High Resolution Elemental Analysis Using Image-Spectroscopy. , 2005, , 163-168.		0
283	Off-Axis Electron Holography of Unbiased and Reverse-Biased Focused Ion Beam Milled Si-p-n Junctions. Microscopy and Microanalysis, 2005, 11, 66-78.	0.2	35
284	High Resolution 3-D Analysis of Quantum Dots and Other Nanostructures. Microscopy and Microanalysis, 2005, 11, .	0.2	0
285	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
286	Embedded Nanostructures Revealed in Three Dimensions. Science, 2005, 309, 2195-2198.	6.0	167
287	Resputtering and morphological changes of Au nanoparticles in nanocomposites as a function of the deposition conditions of the oxide capping layer. Nanotechnology, 2005, 16, 718-723.	1.3	17
288	Crystal structure of the superconducting layered cobaltate Na <sub>x</sub> CoO <sub>2</sub> ·yD <sub>2</sub> O. Journal of Physics Condensed Matter, 2005, 17, 3293-3304.	0.7	14

#	ARTICLE	IF	CITATIONS
289	Weak Charge-Lattice Coupling Requires Reinterpretation of Stripes of Charge Order in $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$ . <i>Physical Review Letters</i> , 2005, 94, 097202.	2.9	115
290	Titanium fulleroid oxides. <i>Applied Physics Letters</i> , 2005, 87, 201906.	1.5	14
291	Tomography Using the Transmission Electron Microscope. , 2005, , 601-627.		4
292	On the microstructure of the charge density wave observed in $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$ . <i>Philosophical Magazine</i> , 2005, 85, 999-1015.	0.7	16
293	Room temperature ferromagnetism in bulk Mn-Doped $\text{Cu}_2\text{O}$ . <i>Applied Physics Letters</i> , 2005, 86, 072514.	1.5	112
294	Direct visualisation, by aberration-corrected electron microscopy, of the crystallisation of bimetallic nanoparticle catalysts. <i>Chemical Communications</i> , 2005, , 5805.	2.2	19
295	Real-space imaging of coexisting charge-ordered and monoclinic phases in $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$ ( $x=0.67$ ) and $\text{Tl}_2\text{ETQq}_1$ . <i>Journal of Applied Physics</i> , 2005, 98, 114301.	1.1	15
296	Electronic structure of tin oxides by electron energy loss spectroscopy and real-space multiple scattering calculations. <i>Physical Review B</i> , 2005, 71, .	1.1	37
297	Electron holography of doped semiconductors: when does it work and is it quantitative?. , 2005, , 203-212.		1
298	Towards quantitative electron holography of electrostatic potentials in doped semiconductors. , 2005, , 225-228.		0
299	Quantitative electron holography of biased semiconductor devices. <i>Journal of Physics Condensed Matter</i> , 2004, 16, S181-S192.	0.7	18
300	Differentiation of tin oxides using electron energy-loss spectroscopy. <i>Physical Review B</i> , 2004, 69, .	1.1	71
301	STEM Electron Tomography for Nanoscale Materials Science. <i>Microscopy and Microanalysis</i> , 2004, 10, 148-149.	0.2	4
302	Ruthenium-coated ruthenium oxide nanorods. <i>Applied Physics Letters</i> , 2004, 85, 5385-5387.	1.5	14
303	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
304	Simulations of the electrostatic potential in a thin silicon specimen containing a p-n junction. <i>Materials Research Society Symposia Proceedings</i> , 2004, 839, 60.	0.1	3
305	An Ultra-High-Tilt Two-Contact Electrical Biasing Specimen Holder for Electron Holography and Electron Tomography of Semiconductor Devices. <i>Microscopy and Microanalysis</i> , 2004, 10, 1012-1013.	0.2	4
306	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

#	ARTICLE	IF	CITATIONS
307	Direct evidence of phase coexistence in La <sub>0.5</sub> Ca <sub>0.5</sub> MnO <sub>3</sub> . Journal of Magnetism and Magnetic Materials, 2004, 272-276, 13-14.	1.0	6
308	Electron tomography. Materials Today, 2004, 7, 32-40.	8.3	409
309	The Chemical Application of High-Resolution Electron Tomography: Bright Field or Dark Field?. Angewandte Chemie - International Edition, 2004, 43, 6745-6747.	7.2	64
310	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
311	High-resolution transmission electron microscopy: the ultimate nanoanalytical technique. Chemical Communications, 2004, , 1253-1267.	2.2	72
312	Analyzing the 3-D Structural Properties of Quantum Dots. Microscopy and Microanalysis, 2004, 10, 1192-1193.	0.2	0
313	Structural Elucidation of Pt-Ru Heterogeneous Catalysts by Electron Tomography. Microscopy and Microanalysis, 2004, 10, 34-35.	0.2	8
314	Charge-Ordered Ferromagnetic Phase in La <sub>0.5</sub> Ca <sub>0.5</sub> MnO <sub>3</sub> .. ChemInform, 2003, 34, no.	0.1	0
315	High-Performance Nanocatalysts for Single-Step Hydrogenations. ChemInform, 2003, 34, no.	0.1	3
316	3D electron microscopy in the physical sciences: the development of Z-contrast and EFTEM tomography. Ultramicroscopy, 2003, 96, 413-431.	0.8	964
317	High-Performance Nanocatalysts for Single-Step Hydrogenations. Accounts of Chemical Research, 2003, 36, 20-30.	7.6	553
318	Extending Energy-Filtered Transmission Electron Microscopy (EFTEM) into Three Dimensions Using Electron Tomography. Microscopy and Microanalysis, 2003, 9, 542-555.	0.2	65
319	Examining the Possibilities and Pitfalls of Three Dimensional Energy Filtered Transmission Electron Microscopy (3D-EFTEM). Microscopy and Microanalysis, 2003, 9, 148-149.	0.2	5
320	3-D Analysis of Nanomaterials using Electron Tomography. Microscopy and Microanalysis, 2003, 9, 4-5.	0.2	3
321	Energy Filtered Transmission Electron Microscopy (EFTEM) and the use of Image-Spectroscopy. Microscopy and Microanalysis, 2003, 9, 1574-1575.	0.2	1
322	Z-contrast HAADF-STEM Tomography. Microscopy and Microanalysis, 2003, 9, 178-179.	0.2	2
323	Quantitative Electron Holography of Biased Semiconductor Devices. Physical Review Letters, 2002, 88, 238302.	2.9	160
324	The Determination and Interpretation of Electrically Active Charge Density Profiles at Reverse Biased p-n Junctions from Electron Holograms. Microscopy and Microanalysis, 2002, 8, 42-43.	0.2	2

#	ARTICLE	IF	CITATIONS
325	Quantitative Examination of Reverse-Biased Semiconductor Devices using Off- Axis Electron Holography. <i>Microscopy and Microanalysis</i> , 2002, 8, 518-519.	0.2	1
326	Probing the Spatial Distribution and Morphology of Supported Nanoparticles Using Rutherford-Scattered Electron Imaging. <i>Angewandte Chemie</i> , 2002, 114, 3958-3961.	1.6	3
327	Probing the Spatial Distribution and Morphology of Supported Nanoparticles Using Rutherford-Scattered Electron Imaging. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 3804-3807.	7.2	18
328	Measurement of magnetic domain wall width using energy-filtered Fresnel images. <i>Journal of Microscopy</i> , 2002, 207, 118-128.	0.8	18
329	Charge-ordered ferromagnetic phase in La <sub>0.5</sub> Ca <sub>0.5</sub> MnO <sub>3</sub> . <i>Nature</i> , 2002, 420, 797-800.	13.7	290
330	An Introduction to Energy-Filtered Transmission Electron Microscopy. <i>Topics in Catalysis</i> , 2002, 21, 109-138.	1.3	34
331	Z-Contrast tomography: a technique in three-dimensional nanostructural analysis based on Rutherford scattering. <i>Chemical Communications</i> , 2001, , 907-908.	2.2	230
332	Electron Tomography of Nanoparticle Catalysts on Porous Supports: A New Technique Based on Rutherford Scattering. <i>Journal of Physical Chemistry B</i> , 2001, 105, 7882-7886.	1.2	126
333	Three Dimensional Energy Filtered Transmission Electron Microscopy (3D-EFTEM). <i>Microscopy and Microanalysis</i> , 2001, 7, 1162-1163.	0.2	4
334	High Angle Annular Dark Field (HAADF) STEM Tomography of Nanostructured Catalysts. <i>Microscopy and Microanalysis</i> , 2001, 7, 1104-1105.	0.2	1
335	Image-spectroscopy I. The advantages of increased spectral information for compositional EFTEM analysis. <i>Ultramicroscopy</i> , 2001, 88, 179-186.	0.8	62
336	Image-spectroscopy II. The removal of plural scattering from extended energy-filtered series by Fourier deconvolution. <i>Ultramicroscopy</i> , 2001, 88, 187-194.	0.8	35
337	An introduction to off-axis electron holography. <i>Micron</i> , 2001, 32, 167-184.	1.1	107
338	Magnetic domain-wall width in La <sub>0.7</sub> Ca <sub>0.3</sub> MnO <sub>3</sub> thin films measured using Fresnel imaging. <i>Physical Review B</i> , 2001, 64, .	1.1	36
339	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
340	Zinc Vanadates in Vanadium Oxide-Doped Zinc Oxide Varistors. <i>Journal of the American Ceramic Society</i> , 2001, 84, 435-41.	1.9	20
341	X-Ray Mapping of Bimetallic Catalysts in Mesoporous Silica. <i>Microscopy and Microanalysis</i> , 1999, 5, 622-623.	0.2	0
342	Image-Spectroscopy: New Developments and Applications. <i>Microscopy and Microanalysis</i> , 1999, 5, 618-619.	0.2	2

#	ARTICLE	IF	CITATIONS
343	A simple new method to obtain high angular resolution $\tilde{I}(\mathbf{q})$ patterns. Ultramicroscopy, 1999, 76, 91-96.	0.8	41
344	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
345	Quantitative zone-axis convergent-beam electron diffraction (CBED) studies of metals. II. Debye-Waller-factor measurements. Acta Crystallographica Section A: Foundations and Advances, 1999, 55, 480-488.	0.3	18
346	High-resolution imaging of nanoparticle bimetallic catalysts supported on mesoporous silica. Catalysis Letters, 1999, 60, 113-120.	1.4	58
347	Measurement of three-dimensional intensity data in electron diffraction by the precession technique. Ultramicroscopy, 1998, 74, 147-157.	0.8	40
348	Measurement of Debye-Waller factors by electron precession. Ultramicroscopy, 1998, 75, 61-67.	0.8	24
349	Debye-Waller Factor Measurements by Quantitative Convergent Beam Electron Diffraction (CBED). Microscopy and Microanalysis, 1997, 3, 1011-1012.	0.2	0
350	Quantitative Convergent Beam Electron Diffraction (CBED) Measurements of Low-Order Structure Factors in Nickel. Microscopy and Microanalysis, 1997, 3, 1013-1014.	0.2	0
351	Quantitative electron diffraction: From atoms to bonds. Contemporary Physics, 1996, 37, 441-456.	0.8	24
352	The Structure of a Metastable Au-Sn Phase Determined by Convergent Beam Electron Diffraction. Journal of Solid State Chemistry, 1996, 124, 132-142.	1.4	14
353	The use of Bethe potentials in zone-axis CBED pattern matching. Ultramicroscopy, 1996, 65, 45-52.	0.8	18
354	Comment on "Flux Quantization in Magnetic Nanowires Imaged by Electron Holography". Physical Review Letters, 1996, 77, 977-977.	2.9	4
355	Energy-filtered convergent-beam diffraction: examples and future prospects. Ultramicroscopy, 1995, 59, 1-13.	0.8	20
356	Single-crystal magnetic metal films on GaAs grown by electrodeposition. Applied Physics Letters, 1995, 67, 1316-1318.	1.5	25
357	Coherent electron diffraction and holography. , 1995, , 277-286.		3
358	Double conical beam-rocking system for measurement of integrated electron diffraction intensities. Ultramicroscopy, 1994, 53, 271-282.	0.8	647
359	Application of High Spatial Resolution Electron Diffraction Techniques to the Study of Local Properties of Crystalline Solids. Materials Research Society Symposia Proceedings, 1994, 332, 129.	0.1	0
360	Coherent overlapping LACBED patterns in 6H SiC. Ultramicroscopy, 1993, 50, 365-376.	0.8	13

#	ARTICLE	IF	CITATIONS
361	Observation of Hexatic Vortex Glass in Al-Doped YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> Single Crystals. Japanese Journal of Applied Physics, 1993, 32, L990-L993.	0.8	6
362	Superconductivity and the incommensurate structural modulation in the heavy fermion UPt <sub>3</sub> . Physical Review Letters, 1993, 70, 678-681.	2.9	75
363	{110} twinning in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> . Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1992, 66, 237-256.	0.8	5
364	Direct observation of the flux line lattice in Al-doped YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> . Physica C: Superconductivity and Its Applications, 1992, 199, 73-83.	0.6	9
365	Characteristics of mixed phase superconductivity in oxygenated La <sub>2</sub> CuO <sub>4</sub> . Physica C: Superconductivity and Its Applications, 1991, 173, 9-24.	0.6	72
366	The Microstructure of RR1000 Nickel-Base Superalloy: The FIB-SEM Dual-Beam Approach. , 0, , 215-220.		1
367	Nanoscale Heterogeneities Limit Optoelectronic Performance in Halide Perovskites. , 0, , .		0
368	Three-dimensional imaging of semiconductor nanostructures by compositional-sensitive diffraction contrast electron tomography studies. , 0, , 313-314.		0
369	Advanced FIB preparation of semiconductor specimens for examination by off-axis electron holography. , 0, , 655-656.		0
370	Octahedral Tilt Engineering: Atomic-Level Picture of Stabilized $\pm$ -FAPbI <sub>3</sub> . , 0, , .		0
371	Tilted-octahedra stabilize FA rich halide perovskites. , 0, , .		0