

Paul Midgley

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

382 papers	15,963 citations	62 h-index	115 g-index
410 ext. papers	17,687 ext. citations	6.6 avg, IF	6.73 L-index

#	Paper	IF	Citations
382	Unveiling the interaction mechanisms of electron and X-ray radiation with halide perovskite semiconductors using scanning nano-probe diffraction.. <i>Advanced Materials</i> , 2022 , e2200383	24	1
381	Microcavity-like exciton-polaritons can be the primary photoexcitation in bare organic semiconductors. <i>Nature Communications</i> , 2021 , 12, 6519	17.4	5
380	Scanning electron diffraction tomography of strain. <i>Inverse Problems</i> , 2021 , 37, 015003	2.3	3
379	Microstructural and mechanical characterisation of a second generation hybrid metal extrusion & bonding aluminium-steel butt joint. <i>Materials Characterization</i> , 2021 , 173, 110761	3.9	4
378	Revisiting metal fluorides as lithium-ion battery cathodes. <i>Nature Materials</i> , 2021 , 20, 841-850	27	34
377	Local Crystallinity in Twisted Cellulose Nanofibers. <i>ACS Nano</i> , 2021 , 15, 2730-2737	16.7	19
376	Stabilized tilted-octahedra halide perovskites inhibit local formation of performance-limiting phases.. <i>Science</i> , 2021 , 374, 1598-1605	33.3	28
375	Factors Governing the Chemical Stability of Shear-Exfoliated ZnSe(alkylamine) II/VI Layered Hybrids. <i>Chemistry of Materials</i> , 2020 , 32, 2379-2388	9.6	1
374	Direct Imaging of Correlated Defect Nanodomains in a Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2020 , 142, 13081-13089	16.4	34
373	Functional Group Mapping by Electron Beam Vibrational Spectroscopy from Nanoscale Volumes. <i>Nano Letters</i> , 2020 , 20, 1272-1279	11.5	17
372	Density-based clustering of crystal (mis)orientations and the Python library. <i>Journal of Applied Crystallography</i> , 2020 , 53, 1293-1298	3.8	5
371	Nanocrystal segmentation in scanning precession electron diffraction data. <i>Journal of Microscopy</i> , 2020 , 279, 158-167	1.9	8
370	Activation of Copper Species on Carbon Nitride for Enhanced Activity in the Arylation of Amines. <i>ACS Catalysis</i> , 2020 , 10, 11069-11080	13.1	12
369	A new route to porous metal-organic framework crystal-glass composites. <i>Chemical Science</i> , 2020 , 11, 9910-9918	9.4	5
368	Magnetic Vortex States in Toroidal Iron Oxide Nanoparticles: Combining Micromagnetics with Tomography. <i>Nano Letters</i> , 2020 , 20, 7405-7412	11.5	2
367	Performance-limiting nanoscale trap clusters at grain junctions in halide perovskites. <i>Nature</i> , 2020 , 580, 360-366	50.4	155
366	Low-Dose Scanning Electron Diffraction Microscopy of Mechanochemically Nanostructured Pharmaceuticals. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1746-1747	0.5	5

365	Multidimensional Electron Diffraction-Microscopy of Cabotegravir Nanocrystals. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1942-1943	0.5	
364	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	16.4	23
363	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, 091111	5.7	9
362	Controlling the speciation and reactivity of carbon-supported gold nanostructures for catalysed acetylene hydrochlorination. <i>Chemical Science</i> , 2019 , 10, 359-369	9.4	48
361	Metal-organic framework crystal-glass composites. <i>Nature Communications</i> , 2019 , 10, 2580	17.4	49
360	Atom-by-Atom Resolution of Structure-Function Relations over Low-Nuclearity Metal Catalysts. <i>Angewandte Chemie</i> , 2019 , 131, 8816-8821	3.6	11
359	Atom-by-Atom Resolution of Structure-Function Relations over Low-Nuclearity Metal Catalysts. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 8724-8729	16.4	64
358	Unsupervised machine learning applied to scanning precession electron diffraction data. <i>Advanced Structural and Chemical Imaging</i> , 2019 , 5,	3.9	25
357	Field Response of Magnetic Vortices in Dusty Olivine From the Semarkona Chondrite. <i>Geochemistry, Geophysics, Geosystems</i> , 2019 , 20, 1441-1453	3.6	3
356	Do Images of Biskyrmsions Show Type-II Bubbles?. <i>Advanced Materials</i> , 2019 , 31, e1806598	24	41
355	Analysis of structural distortion in Eshelby twisted InP nanowires by scanning precession electron diffraction. <i>Nano Research</i> , 2019 , 12, 939-946	10	2
354	Electron Ptychography Using Fast Binary 4D STEM Data. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1662-1663	3	2
353	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	0.5	0
352	Local Coordination in Metal-Organic Frameworks Probed in the Vibrational and Optical Regime by EELS. <i>Microscopy and Microanalysis</i> , 2019 , 25, 606-607	0.5	
351	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	0.5	2
350	Electron Tomography in Materials Science. <i>Springer Handbooks</i> , 2019 , 1279-1329	1.3	6
349	Flux melting of metal-organic frameworks. <i>Chemical Science</i> , 2019 , 10, 3592-3601	9.4	37
348	Mechanical Properties and Processing Techniques of Bulk Metal-Organic Framework Glasses. <i>Journal of the American Chemical Society</i> , 2019 , 141, 1027-1034	16.4	45

347	Crystallographic relationships of T-/S-phase aggregates in an AlCuMgAg alloy. <i>Acta Materialia</i> , 2019 , 166, 587-596	8.4	22
346	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	11.5	17
345	Directional sinogram inpainting for limited angle tomography. <i>Inverse Problems</i> , 2019 , 35, 024004	2.3	20
344	Diketopyrrolopyrrole pigment core@multi-layer SiO ₂ shell with improved photochemical stability. <i>Dyes and Pigments</i> , 2018 , 156, 108-115	4.6	5
343	Single-atom heterogeneous catalysts based on distinct carbon nitride scaffolds. <i>National Science Review</i> , 2018 , 5, 642-652	10.8	82
342	EGaO ₃ grown by low temperature atomic layer deposition on sapphire. <i>Journal of Crystal Growth</i> , 2018 , 487, 23-27	1.6	24
341	Sol-Gel Synthesis of Robust Metal-Organic Frameworks for Nanoparticle Encapsulation. <i>Advanced Functional Materials</i> , 2018 , 28, 1705588	15.6	43
340	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	9.6	7
339	Liquid phase blending of metal-organic frameworks. <i>Nature Communications</i> , 2018 , 9, 2135	17.4	49
338	A sol-gel monolithic metal-organic framework with enhanced methane uptake. <i>Nature Materials</i> , 2018 , 17, 174-179	27	257
337	Scanning Electron Diffraction Crystal Mapping at the Nanoscale. <i>Microscopy and Microanalysis</i> , 2018 , 24, 182-183	0.5	2
336	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	11.5	21
335	Subwavelength Spatially Resolved Coordination Chemistry of Metal-Organic Framework Glass Blends. <i>Journal of the American Chemical Society</i> , 2018 , 140, 17862-17866	16.4	14
334	Adatom dynamics and the surface reconstruction of Si(110) revealed using time-resolved electron microscopy. <i>Applied Physics Letters</i> , 2018 , 113, 183104	3.4	6
333	All Mixed Up: Using Machine Learning to Address Heterogeneity in (Natural) Materials. <i>Microscopy and Microanalysis</i> , 2018 , 24, 562-563	0.5	1
332	Advances in the Synthesis and Long-Term Protection of Zero-Valent Iron Nanoparticles. <i>Particle and Particle Systems Characterization</i> , 2018 , 35, 1800120	3.1	8
331	A heterogeneous single-atom palladium catalyst surpassing homogeneous systems for Suzuki coupling. <i>Nature Nanotechnology</i> , 2018 , 13, 702-707	28.7	316
330	Denoising time-resolved microscopy image sequences with singular value thresholding. <i>Ultramicroscopy</i> , 2017 , 178, 112-124	3.1	25

329	Microfluidization of Graphite and Formulation of Graphene-Based Conductive Inks. <i>ACS Nano</i> , 2017 , 11, 2742-2755	16.7	192
328	Stabilization of Single Metal Atoms on Graphitic Carbon Nitride. <i>Advanced Functional Materials</i> , 2017 , 27, 1605785	15.6	172
327	Catalysts: Stabilization of Single Metal Atoms on Graphitic Carbon Nitride (Adv. Funct. Mater. 8/2017). <i>Advanced Functional Materials</i> , 2017 , 27,	15.6	2
326	Progress and opportunities in EELS and EDS tomography. <i>Ultramicroscopy</i> , 2017 , 180, 133-141	3.1	29
325	Anomalous diffusion of single metal atoms on a graphene oxide support. <i>Chemical Physics Letters</i> , 2017 , 683, 370-374	2.5	21
324	On the crystallography and composition of topologically close-packed phases in ATI 718Plus [®] . <i>Acta Materialia</i> , 2017 , 130, 271-280	8.4	45
323	Gold and iodine diffusion in large area perovskite solar cells under illumination. <i>Nanoscale</i> , 2017 , 9, 4700-4706	7.7	103
322	High-resolution scanning precession electron diffraction: Alignment and spatial resolution. <i>Ultramicroscopy</i> , 2017 , 174, 79-88	3.1	19
321	Transition-Metal Decorated Aluminum Nanocrystals. <i>ACS Nano</i> , 2017 , 11, 10281-10288	16.7	64
320	Entropic Comparison of Atomic-Resolution Electron Tomography of Crystals and Amorphous Materials. <i>Physical Review Letters</i> , 2017 , 119, 166101	7.4	4
319	Data Clustering and Scanning Precession Electron Diffraction for Microanalysis. <i>Microscopy and Microanalysis</i> , 2017 , 23, 116-117	0.5	2
318	The Microstructure of Pharmaceutical Materials Revealed by Scanning Electron Diffraction. <i>Microscopy and Microanalysis</i> , 2017 , 23, 1192-1193	0.5	3
317	Nanoscale Strain Tomography by Scanning Precession Electron Diffraction. <i>Microscopy and Microanalysis</i> , 2017 , 23, 1710-1711	0.5	3
316	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	0.5	8
315	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	4.9	13
314	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	4	13
313	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	0.5	2
312	Scanning Precession Electron Diffraction Study of Hybrid Precipitates in a 6xxx Series Aluminium Alloy. <i>Microscopy and Microanalysis</i> , 2017 , 23, 114-115	0.5	

311	On three-dimensional misorientation spaces. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2017 , 473, 20170274	2.4	23
310	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	6	15
309	Sparsity, Parsimony and Data Reduction - Applications across Multi-Dimensional Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2017 , 23, 112-113	0.5	
308	Inter-phase Relationships Revealed in 3-Dimensional Orientation Spaces. <i>Microscopy and Microanalysis</i> , 2017 , 23, 202-203	0.5	1
307	Local Layer Stacking and Structural Disorder in Graphene Oxide Studied via Scanning Electron Diffraction.. <i>Microscopy and Microanalysis</i> , 2017 , 23, 1754-1755	0.5	1
306	Multi-modal electron tomography for 3D spectroscopic analysis using limited projections 2016 , 9-10		0
305	Phase mapping of 2xxx-series aluminium alloys by scanning precession electron diffraction 2016 , 255-256		
304	STEM imaging of atom dynamics: novel methods for accurate particle tracking 2016 , 505-506		0
303	Structure and topology of chemical vapour deposited graphene by scanning electron diffraction 2016 , 474-475		
302	Scanning electron diffraction of polyethylene 2016 , 692-693		
301	SAMFire - a smart adaptive fitting algorithm for multi-dimensional microscopy 2016 , 95-96		
300	Nanoscale Crystal Cartography using Scanning Electron Diffraction 2016 , 613-614		
299	Magnetic microscopy of metallic meteorites: probing the magnetic state of the early solar system 2016 , 1170-1171		
298	Electron Tomography 2016 , 343-376		4
297	EFTEM 2016 , 377-404		1
296	Coarsening behaviour and interfacial structure of η precipitates in Co-Al-W based superalloys. <i>Acta Materialia</i> , 2016 , 120, 14-23	8.4	55
295	Large-scale ordering of nanoparticles using viscoelastic shear processing. <i>Nature Communications</i> , 2016 , 7, 11661	17.4	88
294	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,	3.3	16

293	Analytical electron tomography. <i>MRS Bulletin</i> , 2016 , 41, 531-536	3.2	8
292	Scanning electron diffraction using the pnCCD (S)TEM Camera 2016 , 641-642		
291	A Compressive Sensing based acquisition design for quantitative ultra-low dose high-resolution imaging and spectroscopy in the STEM 2016 , 324-325		1
290	Compressed sensing electron tomography of needle-shaped biological specimens--Potential for improved reconstruction fidelity with reduced dose. <i>Ultramicroscopy</i> , 2016 , 160, 230-238	3.1	39
289	Hardness and microstructural variation of Al-Mg-Mn-Sc-Zr alloy. <i>Micron</i> , 2016 , 82, 1-8	2.3	17
288	A novel 3D absorption correction method for quantitative EDX-STEM tomography. <i>Ultramicroscopy</i> , 2016 , 160, 118-129	3.1	32
287	Crystallographic mapping in engineering alloys by scanning precession electron diffraction 2016 , 211-212		
286	Time-resolved imaging and analysis of single atom diffusion on graphene oxide 2016 , 447-448		
285	In situ observation of heat-induced degradation of perovskite solar cells 2016 , 191-192		
284	Quantitative elemental and bonding EELS tomography of a complex nanoparticle 2016 , 27-28		1
283	Improved Data Analysis and Reconstruction Methods for STEM-EDX Tomography. <i>Microscopy and Microanalysis</i> , 2016 , 22, 284-285	0.5	1
282	3D Visualization of the Iron Oxidation State in FeO/Fe ₃ O ₄ Core-Shell Nanocubes from Electron Energy Loss Tomography. <i>Nano Letters</i> , 2016 , 16, 5068-73	11.5	47
281	Design of Highly Selective Platinum Nanoparticle Catalysts for the Aerobic Oxidation of KA-Oil using Continuous-Flow Chemistry. <i>ChemSusChem</i> , 2016 , 9, 423-7	8.3	7
280	Practical Implementation of Compressive Sensing for High Resolution STEM. <i>Microscopy and Microanalysis</i> , 2016 , 22, 558-559	0.5	7
279	Structural changes in FeOx/Al ₂ O ₃ catalysts during ethylbenzene dehydrogenation 2016 , 2, 25-32		1
278	Vacuum template synthesis of multifunctional nanotubes with tailored nanostructured walls. <i>Scientific Reports</i> , 2016 , 6, 20637	4.9	13
277	Blind source separation aided characterization of the δ strengthening phase in an advanced nickel-based superalloy by spectroscopic 4D electron microscopy. <i>Acta Materialia</i> , 2016 , 107, 229-238	8.4	16
276	Structural and Optical Properties of Discrete Dendritic Pt Nanoparticles on Colloidal Au Nanoprisms. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 20843-20851	3.8	23

275	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	2.9	28
274	Encapsulation for long-term stability enhancement of perovskite solar cells. <i>Nano Energy</i> , 2016 , 30, 162-172	17.2	200
273	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	3.1	3
272	Electron Energy Loss Spectroscopy Investigation into Symmetry in Gold Trimer and Tetramer Plasmonic Nanoparticle Structures. <i>ACS Nano</i> , 2016 , 10, 8552-63	16.7	31
271	On the nature of the omega tri-layer periodicity in rapidly cooled Ti-15Mo. <i>Scripta Materialia</i> , 2015 , 107, 79-82	5.6	13
270	An endogenous nanomineral chaperones luminal antigen and peptidoglycan to intestinal immune cells. <i>Nature Nanotechnology</i> , 2015 , 10, 361-9	28.7	62
269	The rapidly changing face of electron microscopy. <i>Chemical Physics Letters</i> , 2015 , 631-632, 103-113	2.5	17
268	Multicomponent signal unmixing from nanoheterostructures: overcoming the traditional challenges of nanoscale X-ray analysis via machine learning. <i>Nano Letters</i> , 2015 , 15, 2716-20	11.5	39
267	Eigenmode Tomography of Surface Charge Oscillations of Plasmonic Nanoparticles by Electron Energy Loss Spectroscopy. <i>ACS Photonics</i> , 2015 , 2, 1628-1635	6.3	45
266	Scanning precession electron tomography for three-dimensional nanoscale orientation imaging and crystallographic analysis. <i>Nature Communications</i> , 2015 , 6, 7267	17.4	62
265	The Dark Side of EDX Tomography: Modeling Detector Shadowing to Aid 3D Elemental Signal Analysis. <i>Microscopy and Microanalysis</i> , 2015 , 21, 759-64	0.5	12
264	Precession electron diffraction - a topical review. <i>IUCrJ</i> , 2015 , 2, 126-36	4.7	89
263	Three-dimensional Surface Charge Reconstructions of Surface Plasmon Modes of Silver Right Bipyramids. <i>Microscopy and Microanalysis</i> , 2015 , 21, 2225-2226	0.5	
262	Resonances of nanoparticles with poor plasmonic metal tips. <i>Scientific Reports</i> , 2015 , 5, 17431	4.9	35
261	Overcoming Traditional Challenges in Nano-scale X-ray Characterization Using Independent Component Analysis. <i>Microscopy and Microanalysis</i> , 2015 , 21, 1227-1228	0.5	
260	Machine learning as a tool for classifying electron tomographic reconstructions. <i>Advanced Structural and Chemical Imaging</i> , 2015 , 1,	3.9	14
259	Multi-Dimensional Machine Learning Aided Analysis of a Nickel-Based Superalloy. <i>Microscopy and Microanalysis</i> , 2015 , 21, 2173-2174	0.5	0
258	Focused Ion Beam Nanotomography of Chondritic Meteorites: Closing the Mesoscale Length Gap in Paleomagnetic Studies. <i>Microscopy and Microanalysis</i> , 2015 , 21, 2261-2262	0.5	

257	Decomposing Electron Diffraction Signals in Multi-Component Microstructures. <i>Microscopy and Microanalysis</i> , 2015 , 21, 1241-1242	0.5	
256	Reduced-dose and high-speed acquisition strategies for multi-dimensional electron microscopy. <i>Advanced Structural and Chemical Imaging</i> , 2015 , 1,	3.9	34
255	Enhanced quantification for 3D SEM-EDS: using the full set of available X-ray lines. <i>Ultramicroscopy</i> , 2015 , 148, 158-167	3.1	15
254	Laser treatment of Ag@ZnO nanorods as long-life-span SERS surfaces. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 2331-9	9.5	41
253	Chapter 6:Electron Tomography. <i>RSC Nanoscience and Nanotechnology</i> , 2015 , 211-299		1
252	Electron tomography provides a direct link between the Payne effect and the inter-particle spacing of rubber composites. <i>Scientific Reports</i> , 2014 , 4, 7389	4.9	15
251	Microstructural analysis of Au/TiO ₂ -SBA-15 nanocomposite. <i>Microscopy and Microanalysis</i> , 2014 , 20, 1001-7	1.7	2
250	Multi-dimensional electron microscopy. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 8614-7	16.4	19
249	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, 12696-702	7.7	13
248	High resolution orientation mapping of secondary phases in ATI 718Plus alloy. <i>MATEC Web of Conferences</i> , 2014 , 14, 11002	0.3	
247	Formation of Intergranular M ₂₃ C ₆ in Sensitized Type-347 Stainless Steel. <i>ISIJ International</i> , 2014 , 54, 148-152	1.7	18
246	Quantitative Electron Tomography of Rubber Composites. <i>Journal of Physics: Conference Series</i> , 2014 , 522, 012042	0.3	1
245	Enhanced data generated with electrons (EDGE) special issue introduction. <i>Microscopy and Microanalysis</i> , 2014 , 20, 647-8	0.5	
244	Excitation dependent Fano-like interference effects in plasmonic silver nanorods. <i>Physical Review B</i> , 2014 , 90,	3.3	25
243	Mehrdimensionale Elektronenmikroskopie. <i>Angewandte Chemie</i> , 2014 , 126, 8758-8761	3.6	0
242	On the precipitation of delta phase in ALLVAC alloy 718Plus. <i>Philosophical Magazine</i> , 2014 , 94, 1132-1152	1.6	47
241	Plasmon and compositional mapping of plasmonic nanostructures 2014 ,		2
240	Surfactant-free coating of thiols on gold nanoparticles using sonochemistry: a study of competing processes. <i>Ultrasonics Sonochemistry</i> , 2014 , 21, 1886-92	8.9	6

239	6D electron microscopy: combining real-space and reciprocal-space tomography. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2014 , 70, C368-C368	1.7	2
238	Measurement of molecular motion in organic semiconductors by thermal diffuse electron scattering. <i>Nature Materials</i> , 2013 , 12, 1045-9	27	75
237	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-->. <i>Progress in Natural Science: Materials International</i> , 2013 , 23, 222-234	3.6	21
236	Three-dimensional imaging of localized surface plasmon resonances of metal nanoparticles. <i>Nature</i> , 2013 , 502, 80-4	50.4	370
235	Surface plasmon excitations in metal spheres: Direct comparison of light scattering and electron energy-loss spectroscopy by modal decomposition. <i>Physical Review B</i> , 2013 , 87,	3.3	13
234	Compressed sensing electron tomography. <i>Ultramicroscopy</i> , 2013 , 131, 70-91	3.1	209
233	Self-assembly of one-pot synthesized $Ce_xZr_{1-x}O_2/BaO/Al_2O_3$ nanocomposites promoted by site-selective doping of alumina with barium. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 3645	13	10
232	Finite element simulations of electrostatic dopant potentials in thin semiconductor specimens for electron holography. <i>Ultramicroscopy</i> , 2013 , 134, 160-6	3.1	19
231	A new approach to the investigation of nanoparticles: electron tomography with compressed sensing. <i>Journal of Colloid and Interface Science</i> , 2013 , 392, 7-14	9.3	26
230	Ultrafast electron diffraction pattern simulations using GPU technology. Applications to lattice vibrations. <i>Ultramicroscopy</i> , 2013 , 134, 44-7	3.1	13
229	Learning from nature to improve the heat generation of iron-oxide nanoparticles for magnetic hyperthermia applications. <i>Scientific Reports</i> , 2013 , 3, 1652	4.9	369
228	Some Turning Points in the Chemical Electron Microscopic Study of Heterogeneous Catalysts. <i>ChemCatChem</i> , 2013 , 5, 2560-2579	5.2	19
227	Revealing the Atomic Structure of Intermetallic GaPd ₂ Nanocatalysts by using Aberration-Corrected Scanning Transmission Electron Microscopy. <i>ChemCatChem</i> , 2013 , 5, 2599-2609	5.2	14
226	Controlled 3D-coating of the pores of highly ordered mesoporous antiferromagnetic Co ₃ O ₄ replicas with ferrimagnetic Fe(x)Co(3-x)O ₄ nanolayers. <i>Nanoscale</i> , 2013 , 5, 5561-7	7.7	12
225	Magnetic structure of individual flux vortices in superconducting MgB ₂ derived using transmission electron microscopy. <i>Physical Review B</i> , 2013 , 87,	3.3	9
224	Poster: Spin-Related Phenomena 2013 , 589-632		
223	Aberration-corrected and energy-filtered precession electron diffraction. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2013 , 228, 43-50	1	1
222	Low voltage STEM imaging of multi-walled carbon nanotubes. <i>Micron</i> , 2012 , 43, 428-34	2.3	8

221	Imaging flux vortices in MgB2 using transmission electron microscopy. <i>Physica C: Superconductivity and Its Applications</i> , 2012 , 474, 18-20	1.3	6
220	Refining structures against reflection rank: an alternative metric for electron crystallography. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2012 , 68, 352-8		31
219	Nanoconfinement of Ni clusters towards a high sintering resistance of steam methane reforming catalysts. <i>Catalysis Science and Technology</i> , 2012 , 2, 2476	5.5	17
218	Superhydrophobic supported Ag-NPs@ZnO-nanorods with photoactivity in the visible range. <i>Journal of Materials Chemistry</i> , 2012 , 22, 1341-1346		34
217	Recent advances in the application of electron tomography to materials chemistry. <i>Accounts of Chemical Research</i> , 2012 , 45, 1782-91	24.3	64
216	Precession Electron Diffraction. <i>Advances in Imaging and Electron Physics</i> , 2012 , 170, 1-63	0.2	14
215	Direct visualization of symmetry breaking during janus nanoparticle formation. <i>Small</i> , 2012 , 8, 2698-703	11	16
214	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	12.8	62
213	Quantitative High-Angle Annular Dark-Field Scanning Transmission Electron Microscope (HAADF-STEM) Tomography and High-Resolution Electron Microscopy of Unsupported Intermetallic GaPd ₂ Catalysts. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 13343-13352	3.8	34
212	NETWORKS OF NANOPARTICLES IN ORGANIC / INORGANIC COMPOSITES: ALGORITHMIC EXTRACTION AND STATISTICAL ANALYSIS. <i>Image Analysis and Stereology</i> , 2012 , 31, 27	1	9
211	Electron Tomography 2012 , 253-279		3
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