

# Angus I Kirkland

## List of Publications by Citations

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158  
papers

7,346  
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46  
h-index

82  
g-index

161  
ext. papers

8,444  
ext. citations

7.4  
avg, IF

5.72  
L-index

#	Paper	IF	Citations
158	General synthesis and definitive structural identification of MN <sub>4</sub> C <sub>4</sub> single-atom catalysts with tunable electrocatalytic activities. <i>Nature Catalysis</i> , <b>2018</b> , 1, 63-72	36.5	968
157	Discrete atom imaging of one-dimensional crystals formed within single-walled carbon nanotubes. <i>Science</i> , <b>2000</b> , 289, 1324-7	33.3	364
156	Dislocation-driven deformations in graphene. <i>Science</i> , <b>2012</b> , 337, 209-12	33.3	295
155	Spatial control of defect creation in graphene at the nanoscale. <i>Nature Communications</i> , <b>2012</b> , 3, 1144	17.4	258
154	Dynamics of single Fe atoms in graphene vacancies. <i>Nano Letters</i> , <b>2013</b> , 13, 1468-75	11.5	207
153	A fundamental look at electrocatalytic sulfur reduction reaction. <i>Nature Catalysis</i> , <b>2020</b> , 3, 762-770	36.5	206
152	Nanogold: a quantitative phase map. <i>ACS Nano</i> , <b>2009</b> , 3, 1431-6	16.7	197
151	Integral atomic layer architectures of 1D crystals inserted into single walled carbon nanotubes. <i>Chemical Communications</i> , <b>2002</b> , 1319-1332	5.8	185
150	Atomic structure and dynamics of metal dopant pairs in graphene. <i>Nano Letters</i> , <b>2014</b> , 14, 3766-72	11.5	168
149	An encapsulated helical one-dimensional cobalt iodide nanostructure. <i>Nature Materials</i> , <b>2003</b> , 2, 788-91	27	141
148	A new method for the determination of the wave aberration function for high resolution TEM 1. Measurement of the symmetric aberrations. <i>Ultramicroscopy</i> , <b>2002</b> , 92, 89-109	3.1	117
147	Influence of Shell Thickness and Surface Passivation on PbS/CdS Core/Shell Colloidal Quantum Dot Solar Cells. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 4004-4013	9.6	115
146	Structural reconstruction of the graphene monovacancy. <i>ACS Nano</i> , <b>2013</b> , 7, 4495-502	16.7	115
145	Synthesis and Structural Characterization of Branched Palladium Nanostructures. <i>Advanced Materials</i> , <b>2009</b> , 21, 2288-2293	24	115
144	Aberration-corrected imaging of active sites on industrial catalyst nanoparticles. <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 3683-5	16.4	109
143	Gold-palladium core-shell nanocrystals with size and shape control optimized for catalytic performance. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 1477-80	16.4	98
142	Characterisation of the signal and noise transfer of CCD cameras for electron detection. <i>Microscopy Research and Technique</i> , <b>2000</b> , 49, 269-80	2.8	95

141	Atomic Structure and Dynamics of Single Platinum Atom Interactions with Monolayer MoS. <i>ACS Nano</i> , <b>2017</b> , 11, 3392-3403	16.7	94
140	Structural characterization of atomically regulated nanocrystals formed within single-walled carbon nanotubes using electron microscopy. <i>Accounts of Chemical Research</i> , <b>2002</b> , 35, 1054-62	24.3	93
139	Atomic imaging of phase transitions and morphology transformations in nanocrystals. <i>Advanced Materials</i> , <b>2009</b> , 21, 4992-4995	24	90
138	A versatile double aberration-corrected, energy filtered HREM/STEM for materials science. <i>Ultramicroscopy</i> , <b>2005</b> , 103, 7-15	3.1	84
137	The effects of electron and photon scattering on signal and noise transfer properties of scintillators in CCD cameras used for electron detection. <i>Ultramicroscopy</i> , <b>1998</b> , 75, 23-33	3.1	80
136	Confocal operation of a transmission electron microscope with two aberration correctors. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 124105	3.4	80
135	Atomic Structure and Spectroscopy of Single Metal (Cr, V) Substitutional Dopants in Monolayer MoS. <i>ACS Nano</i> , <b>2016</b> , 10, 10227-10236	16.7	77
134	Materials Advances through Aberration-Corrected Electron Microscopy. <i>MRS Bulletin</i> , <b>2006</b> , 31, 36-43	3.2	76
133	Structural changes induced in nanocrystals of binary compounds confined within single walled carbon nanotubes: a brief review. <i>Inorganica Chimica Acta</i> , <b>2002</b> , 330, 1-12	2.7	74
132	A Morphology-Selective Copper Organosol. <i>Angewandte Chemie International Edition in English</i> , <b>1988</b> , 27, 1530-1533		74
131	Crystallization of 2H and 4H PbI <sub>2</sub> in Carbon Nanotubes of Varying Diameters and Morphologies. <i>Chemistry of Materials</i> , <b>2006</b> , 18, 2059-2069	9.6	73
130	"Indirect" high-resolution transmission electron microscopy: aberration measurement and wavefunction reconstruction. <i>Microscopy and Microanalysis</i> , <b>2004</b> , 10, 401-13	0.5	69
129	Correlation of structural and electronic properties in a new low-dimensional form of mercury telluride. <i>Physical Review Letters</i> , <b>2006</b> , 96, 215501	7.4	64
128	Resolution extension and exit wave reconstruction in complex HREM. <i>Ultramicroscopy</i> , <b>2004</b> , 98, 99-114	3.1	62
127	Atomically Flat Zigzag Edges in Monolayer MoS by Thermal Annealing. <i>Nano Letters</i> , <b>2017</b> , 17, 5502-5507	11.5	58
126	Stability and dynamics of the tetravacancy in graphene. <i>Nano Letters</i> , <b>2014</b> , 14, 1634-42	11.5	57
125	Electron ptychographic microscopy for three-dimensional imaging. <i>Nature Communications</i> , <b>2017</b> , 8, 16317.4	17.4	57
124	Characterisation of the Medipix3 detector for 60 and 80keV electrons. <i>Ultramicroscopy</i> , <b>2017</b> , 182, 44-53	3.1	56

123	Atomic Structure of Graphene Subnanometer Pores. <i>ACS Nano</i> , <b>2015</b> , 9, 11599-607	16.7	56
122	Resolving strain in carbon nanotubes at the atomic level. <i>Nature Materials</i> , <b>2011</b> , 10, 958-62	27	55
121	Atomic-scale detection of organic molecules coupled to single-walled carbon nanotubes. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 10966-7	16.4	55
120	On the importance of fifth-order spherical aberration for a fully corrected electron microscope. <i>Ultramicroscopy</i> , <b>2006</b> , 106, 301-6	3.1	55
119	Temperature dependence of the reconstruction of zigzag edges in graphene. <i>ACS Nano</i> , <b>2015</b> , 9, 4786-956.7	5.7	53
118	A new method for the determination of the wave aberration function for high-resolution TEM.; 2. Measurement of the antisymmetric aberrations. <i>Ultramicroscopy</i> , <b>2004</b> , 99, 115-23	3.1	52
117	Three-dimensional imaging in double aberration-corrected scanning confocal electron microscopy, part I: elastic scattering. <i>Ultramicroscopy</i> , <b>2008</b> , 108, 1558-66	3.1	51
116	Entrapped Single Tungstate Site in Zeolite for Cooperative Catalysis of Olefin Metathesis with Brønsted Acid Site. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 6661-6667	16.4	50
115	Atomic structure of ABC rhombohedral stacked trilayer graphene. <i>ACS Nano</i> , <b>2012</b> , 6, 5680-6	16.7	48
114	The Morphology and Microstructure of Colloidal Silver and Gold. <i>Angewandte Chemie International Edition in English</i> , <b>1987</b> , 26, 676-678		48
113	Multiple beam tilt microscopy for super resolved imaging. <i>Journal of Electron Microscopy</i> , <b>1997</b> , 46, 11-22		46
112	Transforming carbon dioxide into jet fuel using an organic combustion-synthesized Fe-Mn-K catalyst. <i>Nature Communications</i> , <b>2020</b> , 11, 6395	17.4	46
111	Transformations of gold nanoparticles investigated using variable temperature high-resolution transmission electron microscopy. <i>Ultramicroscopy</i> , <b>2010</b> , 110, 506-16	3.1	45
110	Direct imaging of the structure, relaxation, and sterically constrained motion of encapsulated tungsten polyoxometalate lindqvist ions within carbon nanotubes. <i>ACS Nano</i> , <b>2008</b> , 2, 966-76	16.7	43
109	Atomic structure and formation mechanism of sub-nanometer pores in 2D monolayer MoS. <i>Nanoscale</i> , <b>2017</b> , 9, 6417-6426	7.7	41
108	The development of a 200 kV monochromated field emission electron source. <i>Ultramicroscopy</i> , <b>2014</b> , 140, 37-43	3.1	41
107	Nanoscale energy-filtered scanning confocal electron microscopy using a double-aberration-corrected transmission electron microscope. <i>Physical Review Letters</i> , <b>2010</b> , 104, 2008014	7.4	40
106	Three-dimensional imaging in double aberration-corrected scanning confocal electron microscopy, part II: inelastic scattering. <i>Ultramicroscopy</i> , <b>2008</b> , 108, 1567-78	3.1	40

105	Ultralong 1D Vacancy Channels for Rapid Atomic Migration during 2D Void Formation in Monolayer MoS. <i>ACS Nano</i> , <b>2018</b> , 12, 7721-7730	16.7	38
104	A Study of Commercial Nanoparticulate $\gamma$ -Al <sub>2</sub> O <sub>3</sub> Catalyst Supports. <i>ChemCatChem</i> , <b>2013</b> , 5, 2695-2706	5.2	38
103	One-Pot Synthesis of Lithium-Rich Cathode Material with Hierarchical Morphology. <i>Nano Letters</i> , <b>2016</b> , 16, 7503-7508	11.5	37
102	The role of the bridging atom in stabilizing odd numbered graphene vacancies. <i>Nano Letters</i> , <b>2014</b> , 14, 3972-80	11.5	36
101	Deterministic electron ptychography at atomic resolution. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	36
100	Low-dose aberration corrected cryo-electron microscopy of organic specimens. <i>Ultramicroscopy</i> , <b>2008</b> , 108, 1636-44	3.1	36
99	Assessing the precision of strain measurements using electron backscatter diffraction--part 1: detector assessment. <i>Ultramicroscopy</i> , <b>2013</b> , 135, 126-35	3.1	35
98	Aberration measurement using the Ronchigram contrast transfer function. <i>Ultramicroscopy</i> , <b>2010</b> , 110, 891-8	3.1	35
97	A composite method for the determination of the chirality of single walled carbon nanotubes. <i>Journal of Microscopy</i> , <b>2003</b> , 212, 152-7	1.9	35
96	Atomic electrostatic maps of 1D channels in 2D semiconductors using 4D scanning transmission electron microscopy. <i>Nature Communications</i> , <b>2019</b> , 10, 1127	17.4	33
95	Partial Dislocations in Graphene and Their Atomic Level Migration Dynamics. <i>Nano Letters</i> , <b>2015</b> , 15, 5950-5	11.5	33
94	Structural investigation of MoS <sub>2</sub> core-shell nanoparticles formed by an arc discharge in water. <i>Nanotechnology</i> , <b>2003</b> , 14, 913-917	3.4	33
93	Molecular nitrogen promotes catalytic hydrodeoxygenation. <i>Nature Catalysis</i> , <b>2019</b> , 2, 1078-1087	36.5	33
92	Bond length and charge density variations within extended arm chair defects in graphene. <i>ACS Nano</i> , <b>2013</b> , 7, 9860-6	16.7	32
91	Controlled formation of closed-edge nanopores in graphene. <i>Nanoscale</i> , <b>2015</b> , 7, 11602-10	7.7	31
90	A Joint Structural Characterization of Colloidal Platinum by EXAFS and High-Resolution Electron Microscopy. <i>Angewandte Chemie International Edition in English</i> , <b>1989</b> , 28, 590-593		31
89	Inflating graphene with atomic scale blisters. <i>Nano Letters</i> , <b>2014</b> , 14, 908-14	11.5	30
88	Combining Theory and Experiment in Determining the Surface Chemistry of Nanocrystals. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 5460-5463	9.6	30

87	Controlled radiation damage and edge structures in boron nitride membranes. <i>ACS Nano</i> , <b>2011</b> , 5, 3977-86.7	28
86	Electron nanodiffraction using sharply focused parallel probes. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 151104.3.4	28
85	Thermally Induced Dynamics of Dislocations in Graphene at Atomic Resolution. <i>ACS Nano</i> , <b>2015</b> , 9, 10066-7.5	27
84	Electron Ptychographic Diffractive Imaging of Boron Atoms in LaB Crystals. <i>Scientific Reports</i> , <b>2017</b> , 7, 2857	4.9 27
83	Experimental evaluation of a spherical aberration-corrected TEM and STEM. <i>Microscopy (Oxford, England)</i> , <b>2005</b> , 54, 119-21	1.3 27
82	Atomic Resolution Defocused Electron Ptychography at Low Dose with a Fast, Direct Electron Detector. <i>Scientific Reports</i> , <b>2019</b> , 9, 3919	4.9 25
81	Low-dose phase retrieval of biological specimens using cryo-electron ptychography. <i>Nature Communications</i> , <b>2020</b> , 11, 2773	17.4 25
80	Structure and growth of colloidal metal particles. <i>Journal of Chemical Physics</i> , <b>1989</b> , 91, 603-611	3.9 24
79	Formation and Healing of Defects in Atomically Thin GaSe and InSe. <i>ACS Nano</i> , <b>2019</b> , 13, 5112-5123	16.7 23
78	Local measurement and computational refinement of aberrations for HRTEM. <i>Microscopy and Microanalysis</i> , <b>2006</b> , 12, 461-8	0.5 23
77	Structural characterization of interfaces in epitaxial Fe/MgO/Fe magnetic tunnel junctions by transmission electron microscopy. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3 22
76	Assessing the precision of strain measurements using electron backscatter diffraction--part 2: experimental demonstration. <i>Ultramicroscopy</i> , <b>2013</b> , 135, 136-41	3.1 21
75	Cation segregation in Nb <sub>16</sub> W <sub>18</sub> O <sub>94</sub> using high angle annular dark field scanning transmission electron microscopy and image processing. <i>Journal of Microscopy</i> , <b>2002</b> , 206, 1-6	1.9 21
74	Imaging the active surfaces of cerium dioxide nanoparticles. <i>ChemPhysChem</i> , <b>2011</b> , 12, 2397-9	3.2 20
73	Impurity induced non-bulk stacking in chemically exfoliated h-BN nanosheets. <i>Nanoscale</i> , <b>2013</b> , 5, 2290-4.7	18
72	Calculations of spherical aberration-corrected imaging behaviour. <i>Journal of Electron Microscopy</i> , <b>2003</b> , 52, 359-64	18
71	Structure determination of atomically controlled crystal architectures grown within single wall carbon nanotubes. <i>Microscopy and Microanalysis</i> , <b>2005</b> , 11, 401-9	0.5 18
70	Simultaneous Identification of Low and High Atomic Number Atoms in Monolayer 2D Materials Using 4D Scanning Transmission Electron Microscopy. <i>Nano Letters</i> , <b>2019</b> , 19, 6482-6491	11.5 17

69	Atomic structure imaging beyond conventional resolution limits in the transmission electron microscope. <i>Physical Review Letters</i> , <b>2009</b> , 103, 126101	7.4	17
68	Optimal tilt magnitude determination for aberration-corrected super resolution exit wave function reconstruction. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2009</b> , 367, 3755-71	3	17
67	Oleylamine Aging of PtNi Nanoparticles Giving Enhanced Functionality for the Oxygen Reduction Reaction. <i>Nano Letters</i> , <b>2021</b> , 21, 3989-3996	11.5	17
66	Detectors—the ongoing revolution in scanning transmission electron microscopy and why this important to material characterization. <i>APL Materials</i> , <b>2020</b> , 8, 110901	5.7	16
65	Temperature dependence of atomic vibrations in mono-layer graphene. <i>Journal of Applied Physics</i> , <b>2015</b> , 118, 074302	2.5	16
64	Observation of octahedral cation coordination on the {111} surfaces of iron oxide nanoparticles. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 093124	3.4	16
63	Imaging and Characterization of Molecules and One- Dimensional Crystals Formed within Carbon Nanotubes. <i>MRS Bulletin</i> , <b>2004</b> , 29, 265-271	3.2	16
62	High-resolution TEM and the application of direct and indirect aberration correction. <i>Microscopy and Microanalysis</i> , <b>2008</b> , 14, 60-7	0.5	15
61	Comparisons of linear and nonlinear image restoration. <i>Microscopy and Microanalysis</i> , <b>2006</b> , 12, 469-75	0.5	15
60	Imaging Three-Dimensional Elemental Inhomogeneity in Pt-Ni Nanoparticles Using Spectroscopic Single Particle Reconstruction. <i>Nano Letters</i> , <b>2019</b> , 19, 732-738	11.5	14
59	Effect of amorphous layers on the interpretation of restored exit waves. <i>Ultramicroscopy</i> , <b>2009</b> , 109, 237-46	3.1	14
58	Calculations of HREM image intensity using Monte Carlo integration. <i>Ultramicroscopy</i> , <b>2005</b> , 104, 271-80	3.1	14
57	Hollow Electron Ptychographic Diffractive Imaging. <i>Physical Review Letters</i> , <b>2018</b> , 121, 146101	7.4	14
56	Recording low and high spatial frequencies in exit wave reconstructions. <i>Ultramicroscopy</i> , <b>2013</b> , 133, 26-34	3.1	13
55	Phase reconstruction using fast binary 4D STEM data. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 124101	3.4	12
54	Structural correlation of band-gap modifications induced in mercury telluride by dimensional constraint in single walled carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , <b>2006</b> , 243, 3257-3262	1.3	11
53	A One-Dimensional BaI <sub>2</sub> Chain with Five- and Six-Coordination, Formed within a Single-Walled Carbon Nanotube. <i>Angewandte Chemie</i> , <b>2002</b> , 114, 1204-1207	3.6	11
52	Snapshot 3D Electron Imaging of Structural Dynamics. <i>Scientific Reports</i> , <b>2017</b> , 7, 10839	4.9	9

51	Transmission electron microscopy without aberrations: Applications to materials science. <i>Current Applied Physics</i> , <b>2008</b> , 8, 425-428	2.6	9
50	LaI <sub>2</sub> @(18,3)SWNT: the unprecedented structure of a LaI <sub>2</sub> "Crystal," encapsulated within a single-walled carbon nanotube. <i>Microscopy and Microanalysis</i> , <b>2005</b> , 11, 421-30	0.5	8
49	Characterization of grain boundary disconnections in SrTiO <sub>3</sub> Part II: the influence of superimposed disconnections on image analysis. <i>Journal of Materials Science</i> , <b>2019</b> , 54, 3710-3725	4.3	8
48	Dose-dependent high-resolution electron ptychography. <i>Journal of Applied Physics</i> , <b>2016</b> , 119, 054302	2.5	7
47	Exceeding conventional resolution limits in high-resolution transmission electron microscopy using tilted illumination and exit-wave restoration. <i>Microscopy and Microanalysis</i> , <b>2010</b> , 16, 409-15	0.5	6
46	Ultrahigh resolution imaging of local structural distortions in intergrowth tungsten bronzes. <i>Ultramicroscopy</i> , <b>2007</b> , 107, 501-6	3.1	6
45	DFT calculations of KI crystals formed within single-walled carbon nanotubes. <i>Chemical Physics Letters</i> , <b>2008</b> , 466, 76-78	2.5	6
44	Low-Dose Scanning Electron Diffraction Microscopy of Mechanochemically Nanostructured Pharmaceuticals. <i>Microscopy and Microanalysis</i> , <b>2019</b> , 25, 1746-1747	0.5	5
43	Exit wave reconstruction from focal series of HRTEM images, single crystal XRD and total energy studies on Sb <sub>x</sub> WO <sub>3+y</sub> (x ~ 0.11). <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , <b>2012</b> , 227, 341-349 <sup>1</sup>		5
42	HREM of the [111] surfaces of iron oxide nanoparticles. <i>Micron</i> , <b>2006</b> , 37, 389-95	2.3	5
41	Direct and Indirect Electron Microscopy of Encapsulated Nanocrystals. <i>Topics in Catalysis</i> , <b>2002</b> , 21, 139-154		5
40	Structural characterization of the n = 5 layered perovskite neodymium titanate using high-resolution transmission electron microscopy and image reconstruction. <i>Acta Crystallographica Section B: Structural Science</i> , <b>2003</b> , 59, 449-55		5
39	Contrast transfer and noise considerations in focused-probe electron ptychography. <i>Ultramicroscopy</i> , <b>2021</b> , 221, 113189	3.1	5
38	The characterization of sub-nanometer scale structures within single walled carbon nanotubes. <i>AIP Conference Proceedings</i> , <b>2001</b> ,	0	4
37	Quantifying the performance of a hybrid pixel detector with GaAs:Cr sensor for transmission electron microscopy. <i>Ultramicroscopy</i> , <b>2021</b> , 227, 113298	3.1	4
36	Aberration measurement of the probe-forming system of an electron microscope using two-dimensional materials. <i>Ultramicroscopy</i> , <b>2017</b> , 182, 195-204	3.1	3
35	Aberration corrected TEM: current status and future prospects. <i>Journal of Physics: Conference Series</i> , <b>2008</b> , 126, 012034	0.3	3
34	The application of spherical aberration correction and focal series restoration to high-resolution images of platinum nanocatalyst particles. <i>Journal of Physics: Conference Series</i> , <b>2006</b> , 26, 25-28	0.3	3



33	Atomic Resolution Transmission Electron Microscopy. <i>Springer Handbooks</i> , <b>2019</b> , 3-47	1.3	3
32	Low Dose Defocused Probe Electron Ptychography Using a Fast Direct Electron Detector. <i>Microscopy and Microanalysis</i> , <b>2018</b> , 24, 186-187	0.5	3
31	3D Electron Ptychography. <i>Microscopy and Microanalysis</i> , <b>2019</b> , 25, 1802-1803	0.5	2
30	Fast and Low-dose Electron Ptychography. <i>Microscopy and Microanalysis</i> , <b>2018</b> , 24, 224-225	0.5	2
29	Contrast Transfer and Noise Minimization in Electron Ptychography. <i>Microscopy and Microanalysis</i> , <b>2019</b> , 25, 64-65	0.5	2
28	Exit wave reconstruction of radiation-sensitive materials from low-dose data. <i>Journal of Physics: Conference Series</i> , <b>2014</b> , 522, 012052	0.3	2
27	High Resolution ExitWave Restoration. <i>Nanostructure Science and Technology</i> , <b>2012</b> , 41-72	0.9	2
26	HREM of metallized {111} iron oxide nanoparticle surfaces. <i>Journal of Physics: Conference Series</i> , <b>2006</b> , 26, 191-194	0.3	2
25	Atomic Resolution Transmission Electron Microscopy <b>2007</b> , 3-64		2
24	The Crystallography of Metal Halides formed within Single Walled Carbon Nanotubes. <i>Materials Research Society Symposia Proceedings</i> , <b>2000</b> , 633, 14311		2
23	Platinum supported on pristine and nitrogen-doped bowl-like broken hollow carbon spheres as oxygen reduction reaction catalysts. <i>Journal of Applied Electrochemistry</i> , <b>2021</b> , 51, 991-1008	2.6	2
22	Imaging Structure and Magnetisation in New Ways Using 4D STEM. <i>Microscopy and Microanalysis</i> , <b>2018</b> , 24, 180-181	0.5	1
21	Three-dimensional Electron Ptychography of Catalyst Nanoparticles using Combined HAADF STEM and Atom Counting. <i>Microscopy and Microanalysis</i> , <b>2019</b> , 25, 8-9	0.5	1
20	Observing Structural Dynamics and Measuring Chemical Kinetics in Low Dimensional Materials Using High Speed Imaging. <i>Microscopy and Microanalysis</i> , <b>2019</b> , 25, 1682-1683	0.5	1
19	Toward electron exit wave tomography of amorphous materials at atomic resolution. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 536, S94-S98	5.7	1
18	Toward 3D structural information from quantitative electron exit wave analysis. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 371, 012057	0.3	1
17	Finding phase information in the darkness. <i>Journal of Physics: Conference Series</i> , <b>2010</b> , 241, 012013	0.3	1
16	Band-Gap Modification Induced in HgTe by Dimensional Constraint in Carbon Nanotubes: Effect of Nanotube Diameter on Microstructure. <i>Springer Proceedings in Physics</i> , <b>2008</b> , 213-216	0.2	1

15	Electron ptychography using an ultrafast direct electron detector. <i>Microscopy and Microanalysis</i> , <b>2019</b> , 25, 20-21	0.5	0
14	Aberration-Corrected Imaging in CTEM <b>2011</b> , 241-261		0
13	Parakeet: a digital twin software pipeline to assess the impact of experimental parameters on tomographic reconstructions for cryo-electron tomography. <i>Open Biology</i> , <b>2021</b> , 11, 210160	7	0
12	Low Dose Electron Ptychography for Cryo-biological Imaging. <i>Microscopy and Microanalysis</i> , <b>2020</b> , 26, 1488-1490	0.5	
11	A 3D map of atoms in 2D materials. <i>Nature Materials</i> , <b>2020</b> , 19, 827-828	27	
10	STEM and Elemental Analysis by EDS and EELS for Two-dimensional Atomic Structure Containing Au and Cu. <i>Microscopy and Microanalysis</i> , <b>2019</b> , 25, 1776-1777	0.5	
9	Three-Dimensional Imaging of Nanoparticle Chemistry Using Spectroscopic Single Particle Reconstruction. <i>Microscopy and Microanalysis</i> , <b>2019</b> , 25, 400-401	0.5	
8	Electron Ptychography: From 2D to 3D Reconstructions. <i>Microscopy and Microanalysis</i> , <b>2017</b> , 23, 346-347	0.5	
7	Phase Retrieval Quantitative Comparison Between Tilt-series Imaging in TEM and Position-resolved Coherent Diffractive Imaging in STEM. <i>Microscopy and Microanalysis</i> , <b>2017</b> , 23, 470-471	0.5	
6	Using Advanced STEM Techniques to Unravel Key Issues in the Development of Next-Generation Nanostructures for Energy Storage. <i>Microscopy and Microanalysis</i> , <b>2017</b> , 23, 1698-1699	0.5	
5	Inside Cover: Imaging the Active Surfaces of Cerium Dioxide Nanoparticles (ChemPhysChem 13/2011). <i>ChemPhysChem</i> , <b>2011</b> , 12, 2358-2358	3.2	
4	Aberration corrected tilt series restoration. <i>Journal of Physics: Conference Series</i> , <b>2008</b> , 126, 012042	0.3	
3	Aberration-corrected HREM/STEM for semiconductor research <b>2005</b> , 177-182		
2	Ptychographic Single Particle Analysis for Biological Science. <i>Microscopy and Microanalysis</i> , <b>2021</b> , 27, 190-192	0.5	
1	Elmar Zeitler (1927-2020). <i>Ultramicroscopy</i> , <b>2021</b> , 229, 113366	3.1	