

Angus I Kirkland

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.

158
papers

7,346
citations

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	Parakeet: a digital twin software pipeline to assess the impact of experimental parameters on tomographic reconstructions for cryo-electron tomography. <i>Open Biology</i> , 2021 , 11, 210160	7	0
157	Oleylamine Aging of PtNi Nanoparticles Giving Enhanced Functionality for the Oxygen Reduction Reaction. <i>Nano Letters</i> , 2021 , 21, 3989-3996	11.5	17
156	Ptychographic Single Particle Analysis for Biological Science. <i>Microscopy and Microanalysis</i> , 2021 , 27, 190-192	0.5	
155	Contrast transfer and noise considerations in focused-probe electron ptychography. <i>Ultramicroscopy</i> , 2021 , 221, 113189	3.1	5
154	Platinum supported on pristine and nitrogen-doped bowl-like broken hollow carbon spheres as oxygen reduction reaction catalysts. <i>Journal of Applied Electrochemistry</i> , 2021 , 51, 991-1008	2.6	2
153	Quantifying the performance of a hybrid pixel detector with GaAs:Cr sensor for transmission electron microscopy. <i>Ultramicroscopy</i> , 2021 , 227, 113298	3.1	4
152	Elmar Zeitler (1927-2020). <i>Ultramicroscopy</i> , 2021 , 229, 113366	3.1	
151	Low Dose Electron Ptychography for Cryo-biological Imaging. <i>Microscopy and Microanalysis</i> , 2020 , 26, 1488-1490	0.5	
150	Detectors—the ongoing revolution in scanning transmission electron microscopy and why this important to material characterization. <i>APL Materials</i> , 2020 , 8, 110901	5.7	16
149	Low-dose phase retrieval of biological specimens using cryo-electron ptychography. <i>Nature Communications</i> , 2020 , 11, 2773	17.4	25
148	A 3D map of atoms in 2D materials. <i>Nature Materials</i> , 2020 , 19, 827-828	27	
147	Phase reconstruction using fast binary 4D STEM data. <i>Applied Physics Letters</i> , 2020 , 116, 124101	3.4	12
146	A fundamental look at electrocatalytic sulfur reduction reaction. <i>Nature Catalysis</i> , 2020 , 3, 762-770	36.5	206
145	Transforming carbon dioxide into jet fuel using an organic combustion-synthesized Fe-Mn-K catalyst. <i>Nature Communications</i> , 2020 , 11, 6395	17.4	46
144	Low-Dose Scanning Electron Diffraction Microscopy of Mechanochemically Nanostructured Pharmaceuticals. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1746-1747	0.5	5
143	3D Electron Ptychography. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1802-1803	0.5	2
142	Imaging Three-Dimensional Elemental Inhomogeneity in Pt-Ni Nanoparticles Using Spectroscopic Single Particle Reconstruction. <i>Nano Letters</i> , 2019 , 19, 732-738	11.5	14

141	Atomic electrostatic maps of 1D channels in 2D semiconductors using 4D scanning transmission electron microscopy. <i>Nature Communications</i> , 2019 , 10, 1127	17.4	33
140	Atomic Resolution Defocused Electron Ptychography at Low Dose with a Fast, Direct Electron Detector. <i>Scientific Reports</i> , 2019 , 9, 3919	4.9	25
139	Formation and Healing of Defects in Atomically Thin GaSe and InSe. <i>ACS Nano</i> , 2019 , 13, 5112-5123	16.7	23
138	STEM and Elemental Analysis by EDS and EELS for Two-dimensional Atomic Structure Containing Au and Cu. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1776-1777	0.5	
137	Three-Dimensional Imaging of Nanoparticle Chemistry Using Spectroscopic Single Particle Reconstruction. <i>Microscopy and Microanalysis</i> , 2019 , 25, 400-401	0.5	
136	Simultaneous Identification of Low and High Atomic Number Atoms in Monolayer 2D Materials Using 4D Scanning Transmission Electron Microscopy. <i>Nano Letters</i> , 2019 , 19, 6482-6491	11.5	17
135	Electron ptychography using an ultrafast direct electron detector. <i>Microscopy and Microanalysis</i> , 2019 , 25, 20-21	0.5	0
134	Contrast Transfer and Noise Minimization in Electron Ptychography. <i>Microscopy and Microanalysis</i> , 2019 , 25, 64-65	0.5	2
133	Three-dimensional Electron Ptychography of Catalyst Nanoparticles using Combined HAADF STEM and Atom Counting. <i>Microscopy and Microanalysis</i> , 2019 , 25, 8-9	0.5	1
132	Observing Structural Dynamics and Measuring Chemical Kinetics in Low Dimensional Materials Using High Speed Imaging. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1682-1683	0.5	1
131	Atomic Resolution Transmission Electron Microscopy. <i>Springer Handbooks</i> , 2019 , 3-47	1.3	3
130	Molecular nitrogen promotes catalytic hydrodeoxygenation. <i>Nature Catalysis</i> , 2019 , 2, 1078-1087	36.5	33
129	Characterization of grain boundary disconnections in SrTiO ₃ Part II: the influence of superimposed disconnections on image analysis. <i>Journal of Materials Science</i> , 2019 , 54, 3710-3725	4.3	8
128	Entrapped Single Tungstate Site in Zeolite for Cooperative Catalysis of Olefin Metathesis with Brønsted Acid Site. <i>Journal of the American Chemical Society</i> , 2018 , 140, 6661-6667	16.4	50
127	General synthesis and definitive structural identification of MN ₄ C ₄ single-atom catalysts with tunable electrocatalytic activities. <i>Nature Catalysis</i> , 2018 , 1, 63-72	36.5	968
126	Fast and Low-dose Electron Ptychography. <i>Microscopy and Microanalysis</i> , 2018 , 24, 224-225	0.5	2
125	Ultralong 1D Vacancy Channels for Rapid Atomic Migration during 2D Void Formation in Monolayer MoS ₂ . <i>ACS Nano</i> , 2018 , 12, 7721-7730	16.7	38
124	Imaging Structure and Magnetisation in New Ways Using 4D STEM. <i>Microscopy and Microanalysis</i> , 2018 , 24, 180-181	0.5	1

123	Hollow Electron Ptychographic Diffractive Imaging. <i>Physical Review Letters</i> , 2018 , 121, 146101	7.4	14
122	Low Dose Defocused Probe Electron Ptychography Using a Fast Direct Electron Detector. <i>Microscopy and Microanalysis</i> , 2018 , 24, 186-187	0.5	3
121	Atomic Structure and Dynamics of Single Platinum Atom Interactions with Monolayer MoS. <i>ACS Nano</i> , 2017 , 11, 3392-3403	16.7	94
120	Atomic structure and formation mechanism of sub-nanometer pores in 2D monolayer MoS. <i>Nanoscale</i> , 2017 , 9, 6417-6426	7.7	41
119	Characterisation of the Medipix3 detector for 60 and 80keV electrons. <i>Ultramicroscopy</i> , 2017 , 182, 44-53	3.1	56
118	Snapshot 3D Electron Imaging of Structural Dynamics. <i>Scientific Reports</i> , 2017 , 7, 10839	4.9	9
117	Electron ptychographic microscopy for three-dimensional imaging. <i>Nature Communications</i> , 2017 , 8, 16317	4	57
116	Electron Ptychographic Diffractive Imaging of Boron Atoms in LaB Crystals. <i>Scientific Reports</i> , 2017 , 7, 2857	4.9	27
115	Electron Ptychography: From 2D to 3D Reconstructions. <i>Microscopy and Microanalysis</i> , 2017 , 23, 346-347	0.5	
114	Atomically Flat Zigzag Edges in Monolayer MoS by Thermal Annealing. <i>Nano Letters</i> , 2017 , 17, 5502-5507	11.5	58
113	Aberration measurement of the probe-forming system of an electron microscope using two-dimensional materials. <i>Ultramicroscopy</i> , 2017 , 182, 195-204	3.1	3
112	Phase Retrieval Quantitative Comparison Between Tilt-series Imaging in TEM and Position-resolved Coherent Diffractive Imaging in STEM. <i>Microscopy and Microanalysis</i> , 2017 , 23, 470-471	0.5	
111	Using Advanced STEM Techniques to Unravel Key Issues in the Development of Next-Generation Nanostructures for Energy Storage. <i>Microscopy and Microanalysis</i> , 2017 , 23, 1698-1699	0.5	
110	One-Pot Synthesis of Lithium-Rich Cathode Material with Hierarchical Morphology. <i>Nano Letters</i> , 2016 , 16, 7503-7508	11.5	37
109	Atomic Structure and Spectroscopy of Single Metal (Cr, V) Substitutional Dopants in Monolayer MoS. <i>ACS Nano</i> , 2016 , 10, 10227-10236	16.7	77
108	Dose-dependent high-resolution electron ptychography. <i>Journal of Applied Physics</i> , 2016 , 119, 054302	2.5	7
107	Controlled formation of closed-edge nanopores in graphene. <i>Nanoscale</i> , 2015 , 7, 11602-10	7.7	31
106	Temperature dependence of the reconstruction of zigzag edges in graphene. <i>ACS Nano</i> , 2015 , 9, 4786-95	6.7	53

105	Atomic Structure of Graphene Subnanometer Pores. <i>ACS Nano</i> , 2015 , 9, 11599-607	16.7	56
104	Thermally Induced Dynamics of Dislocations in Graphene at Atomic Resolution. <i>ACS Nano</i> , 2015 , 9, 10066-75	11.5	27
103	Partial Dislocations in Graphene and Their Atomic Level Migration Dynamics. <i>Nano Letters</i> , 2015 , 15, 5950-5	11.5	33
102	Temperature dependence of atomic vibrations in mono-layer graphene. <i>Journal of Applied Physics</i> , 2015 , 118, 074302	2.5	16
101	Inflating graphene with atomic scale blisters. <i>Nano Letters</i> , 2014 , 14, 908-14	11.5	30
100	The role of the bridging atom in stabilizing odd numbered graphene vacancies. <i>Nano Letters</i> , 2014 , 14, 3972-80	11.5	36
99	Stability and dynamics of the tetravacancy in graphene. <i>Nano Letters</i> , 2014 , 14, 1634-42	11.5	57
98	The development of a 200 kV monochromated field emission electron source. <i>Ultramicroscopy</i> , 2014 , 140, 37-43	3.1	41
97	Atomic structure and dynamics of metal dopant pairs in graphene. <i>Nano Letters</i> , 2014 , 14, 3766-72	11.5	168
96	Influence of Shell Thickness and Surface Passivation on PbS/CdS Core/Shell Colloidal Quantum Dot Solar Cells. <i>Chemistry of Materials</i> , 2014 , 26, 4004-4013	9.6	115
95	Exit wave reconstruction of radiation-sensitive materials from low-dose data. <i>Journal of Physics: Conference Series</i> , 2014 , 522, 012052	0.3	2
94	Deterministic electron ptychography at atomic resolution. <i>Physical Review B</i> , 2014 , 89,	3.3	36
93	Recording low and high spatial frequencies in exit wave reconstructions. <i>Ultramicroscopy</i> , 2013 , 133, 26-34	3.1	13
92	Assessing the precision of strain measurements using electron backscatter diffraction--part 1: detector assessment. <i>Ultramicroscopy</i> , 2013 , 135, 126-35	3.1	35
91	Bond length and charge density variations within extended arm chair defects in graphene. <i>ACS Nano</i> , 2013 , 7, 9860-6	16.7	32
90	Gold-palladium core-shell nanocrystals with size and shape control optimized for catalytic performance. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 1477-80	16.4	98
89	Assessing the precision of strain measurements using electron backscatter diffraction--part 2: experimental demonstration. <i>Ultramicroscopy</i> , 2013 , 135, 136-41	3.1	21
88	Dynamics of single Fe atoms in graphene vacancies. <i>Nano Letters</i> , 2013 , 13, 1468-75	11.5	207

87	Impurity induced non-bulk stacking in chemically exfoliated h-BN nanosheets. <i>Nanoscale</i> , 2013 , 5, 2290-47.7	18
86	Structural reconstruction of the graphene monovacancy. <i>ACS Nano</i> , 2013 , 7, 4495-502	16.7 115
85	A Study of Commercial Nanoparticulate γ -Al ₂ O ₃ Catalyst Supports. <i>ChemCatChem</i> , 2013 , 5, 2695-2706	5.2 38
84	Exit wave reconstruction from focal series of HRTEM images, single crystal XRD and total energy studies on Sb _x WO _{3+y} (x ~ 0.11). <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2012 , 227, 341-349 ¹	5
83	Toward electron exit wave tomography of amorphous materials at atomic resolution. <i>Journal of Alloys and Compounds</i> , 2012 , 536, S94-S98	5.7 1
82	Spatial control of defect creation in graphene at the nanoscale. <i>Nature Communications</i> , 2012 , 3, 1144	17.4 258
81	Atomic structure of ABC rhombohedral stacked trilayer graphene. <i>ACS Nano</i> , 2012 , 6, 5680-6	16.7 48
80	High Resolution ExitWave Restoration. <i>Nanostructure Science and Technology</i> , 2012 , 41-72	0.9 2
79	Dislocation-driven deformations in graphene. <i>Science</i> , 2012 , 337, 209-12	33.3 295
78	Toward 3D structural information from quantitative electron exit wave analysis. <i>Journal of Physics: Conference Series</i> , 2012 , 371, 012057	0.3 1
77	Controlled radiation damage and edge structures in boron nitride membranes. <i>ACS Nano</i> , 2011 , 5, 3977-86.7	28
76	Imaging the active surfaces of cerium dioxide nanoparticles. <i>ChemPhysChem</i> , 2011 , 12, 2397-9	3.2 20
75	Inside Cover: Imaging the Active Surfaces of Cerium Dioxide Nanoparticles (ChemPhysChem 13/2011). <i>ChemPhysChem</i> , 2011 , 12, 2358-2358	3.2
74	Aberration-Corrected Imaging in CTEM 2011 , 241-261	0
73	Resolving strain in carbon nanotubes at the atomic level. <i>Nature Materials</i> , 2011 , 10, 958-62	27 55
72	Nanoscale energy-filtered scanning confocal electron microscopy using a double-aberration-corrected transmission electron microscope. <i>Physical Review Letters</i> , 2010 , 104, 200801 [†]	7.4 40
71	Structural characterization of interfaces in epitaxial Fe/MgO/Fe magnetic tunnel junctions by transmission electron microscopy. <i>Physical Review B</i> , 2010 , 82,	3.3 22
70	Finding phase information in the darkness. <i>Journal of Physics: Conference Series</i> , 2010 , 241, 012013	0.3 1

69	Exceeding conventional resolution limits in high-resolution transmission electron microscopy using tilted illumination and exit-wave restoration. <i>Microscopy and Microanalysis</i> , 2010 , 16, 409-15	0.5	6
68	Transformations of gold nanoparticles investigated using variable temperature high-resolution transmission electron microscopy. <i>Ultramicroscopy</i> , 2010 , 110, 506-16	3.1	45
67	Aberration measurement using the Ronchigram contrast transfer function. <i>Ultramicroscopy</i> , 2010 , 110, 891-8	3.1	35
66	Nanogold: a quantitative phase map. <i>ACS Nano</i> , 2009 , 3, 1431-6	16.7	197
65	Synthesis and Structural Characterization of Branched Palladium Nanostructures. <i>Advanced Materials</i> , 2009 , 21, 2288-2293	24	115
64	Atomic imaging of phase transitions and morphology transformations in nanocrystals. <i>Advanced Materials</i> , 2009 , 21, 4992-4995	24	90
63	Effect of amorphous layers on the interpretation of restored exit waves. <i>Ultramicroscopy</i> , 2009 , 109, 237-46	3.1	14
62	Atomic structure imaging beyond conventional resolution limits in the transmission electron microscope. <i>Physical Review Letters</i> , 2009 , 103, 126101	7.4	17
61	Optimal tilt magnitude determination for aberration-corrected super resolution exit wave function reconstruction. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009 , 367, 3755-71	3	17
60	Combining Theory and Experiment in Determining the Surface Chemistry of Nanocrystals. <i>Chemistry of Materials</i> , 2008 , 20, 5460-5463	9.6	30
59	Direct imaging of the structure, relaxation, and sterically constrained motion of encapsulated tungsten polyoxometalate lindqvist ions within carbon nanotubes. <i>ACS Nano</i> , 2008 , 2, 966-76	16.7	43
58	High-resolution TEM and the application of direct and indirect aberration correction. <i>Microscopy and Microanalysis</i> , 2008 , 14, 60-7	0.5	15
57	Aberration corrected TEM: current status and future prospects. <i>Journal of Physics: Conference Series</i> , 2008 , 126, 012034	0.3	3
56	Aberration corrected tilt series restoration. <i>Journal of Physics: Conference Series</i> , 2008 , 126, 012042	0.3	
55	Three-dimensional imaging in double aberration-corrected scanning confocal electron microscopy, part II: inelastic scattering. <i>Ultramicroscopy</i> , 2008 , 108, 1567-78	3.1	40
54	DFT calculations of KI crystals formed within single-walled carbon nanotubes. <i>Chemical Physics Letters</i> , 2008 , 466, 76-78	2.5	6
53	Transmission electron microscopy without aberrations: Applications to materials science. <i>Current Applied Physics</i> , 2008 , 8, 425-428	2.6	9
52	Three-dimensional imaging in double aberration-corrected scanning confocal electron microscopy, part I: elastic scattering. <i>Ultramicroscopy</i> , 2008 , 108, 1558-66	3.1	51

51	Low-dose aberration corrected cryo-electron microscopy of organic specimens. <i>Ultramicroscopy</i> , 2008 , 108, 1636-44	3.1	36
50	Band-Gap Modification Induced in HgTe by Dimensional Constraint in Carbon Nanotubes: Effect of Nanotube Diameter on Microstructure. <i>Springer Proceedings in Physics</i> , 2008 , 213-216	0.2	1
49	Aberration-corrected imaging of active sites on industrial catalyst nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 3683-5	16.4	109
48	Atomic-scale detection of organic molecules coupled to single-walled carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2007 , 129, 10966-7	16.4	55
47	Ultrahigh resolution imaging of local structural distortions in intergrowth tungsten bronzes. <i>Ultramicroscopy</i> , 2007 , 107, 501-6	3.1	6
46	Electron nanodiffraction using sharply focused parallel probes. <i>Applied Physics Letters</i> , 2007 , 90, 151104	3.4	28
45	Atomic Resolution Transmission Electron Microscopy 2007 , 3-64		2
44	On the importance of fifth-order spherical aberration for a fully corrected electron microscope. <i>Ultramicroscopy</i> , 2006 , 106, 301-6	3.1	55
43	HREM of the [111] surfaces of iron oxide nanoparticles. <i>Micron</i> , 2006 , 37, 389-95	2.3	5
42	HREM of metallized {111} iron oxide nanoparticle surfaces. <i>Journal of Physics: Conference Series</i> , 2006 , 26, 191-194	0.3	2
41	Materials Advances through Aberration-Corrected Electron Microscopy. <i>MRS Bulletin</i> , 2006 , 31, 36-43	3.2	76
40	Observation of octahedral cation coordination on the {111} surfaces of iron oxide nanoparticles. <i>Applied Physics Letters</i> , 2006 , 88, 093124	3.4	16
39	Correlation of structural and electronic properties in a new low-dimensional form of mercury telluride. <i>Physical Review Letters</i> , 2006 , 96, 215501	7.4	64
38	Confocal operation of a transmission electron microscope with two aberration correctors. <i>Applied Physics Letters</i> , 2006 , 89, 124105	3.4	80
37	Crystallization of 2H and 4H PbI ₂ in Carbon Nanotubes of Varying Diameters and Morphologies. <i>Chemistry of Materials</i> , 2006 , 18, 2059-2069	9.6	73
36	Comparisons of linear and nonlinear image restoration. <i>Microscopy and Microanalysis</i> , 2006 , 12, 469-75	0.5	15
35	Local measurement and computational refinement of aberrations for HRTEM. <i>Microscopy and Microanalysis</i> , 2006 , 12, 461-8	0.5	23
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> , 2006 , 26, 25-28	0.3	3

33	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> , 2006 , 243, 3257-3262	1.3	11
32	Experimental evaluation of a spherical aberration-corrected TEM and STEM. <i>Microscopy (Oxford, England)</i> , 2005 , 54, 119-21	1.3	27
31	Structure determination of atomically controlled crystal architectures grown within single wall carbon nanotubes. <i>Microscopy and Microanalysis</i> , 2005 , 11, 401-9	0.5	18
30	LaI ₂ @(18,3)SWNT: the unprecedented structure of a LaI ₂ "Crystal," encapsulated within a single-walled carbon nanotube. <i>Microscopy and Microanalysis</i> , 2005 , 11, 421-30	0.5	8
29	A versatile double aberration-corrected, energy filtered HREM/STEM for materials science. <i>Ultramicroscopy</i> , 2005 , 103, 7-15	3.1	84
28	Calculations of HREM image intensity using Monte Carlo integration. <i>Ultramicroscopy</i> , 2005 , 104, 271-80	3.1	14
27	Aberration-corrected HREM/STEM for semiconductor research 2005 , 177-182		
26	A new method for the determination of the wave aberration function for high-resolution TEM.; 2. Measurement of the antisymmetric aberrations. <i>Ultramicroscopy</i> , 2004 , 99, 115-23	3.1	52
25	Resolution extension and exit wave reconstruction in complex HREM. <i>Ultramicroscopy</i> , 2004 , 98, 99-114	3.1	62
24	"Indirect" high-resolution transmission electron microscopy: aberration measurement and wavefunction reconstruction. <i>Microscopy and Microanalysis</i> , 2004 , 10, 401-13	0.5	69
23	Imaging and Characterization of Molecules and One- Dimensional Crystals Formed within Carbon Nanotubes. <i>MRS Bulletin</i> , 2004 , 29, 265-271	3.2	16
22	Calculations of spherical aberration-corrected imaging behaviour. <i>Journal of Electron Microscopy</i> , 2003 , 52, 359-64		18
21	Structural investigation of MoS ₂ core-shell nanoparticles formed by an arc discharge in water. <i>Nanotechnology</i> , 2003 , 14, 913-917	3.4	33
20	A composite method for the determination of the chirality of single walled carbon nanotubes. <i>Journal of Microscopy</i> , 2003 , 212, 152-7	1.9	35
19	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> , 2003 , 59, 449-55		5
18	An encapsulated helical one-dimensional cobalt iodide nanostructure. <i>Nature Materials</i> , 2003 , 2, 788-91	27	141
17	A One-Dimensional BaI ₂ Chain with Five- and Six-Coordination, Formed within a Single-Walled Carbon Nanotube. <i>Angewandte Chemie</i> , 2002 , 114, 1204-1207	3.6	11
16	Cation segregation in Nb ₁₆ W ₁₈ O ₉₄ using high angle annular dark field scanning transmission electron microscopy and image processing. <i>Journal of Microscopy</i> , 2002 , 206, 1-6	1.9	21

15	A new method for the determination of the wave aberration function for high resolution TEM 1. Measurement of the symmetric aberrations. <i>Ultramicroscopy</i> , 2002 , 92, 89-109	3.1	117
14	Structural changes induced in nanocrystals of binary compounds confined within single walled carbon nanotubes: a brief review. <i>Inorganica Chimica Acta</i> , 2002 , 330, 1-12	2.7	74
13	Direct and Indirect Electron Microscopy of Encapsulated Nanocrystals. <i>Topics in Catalysis</i> , 2002 , 21, 139-154	5.4	5
12	Integral atomic layer architectures of 1D crystals inserted into single walled carbon nanotubes. <i>Chemical Communications</i> , 2002 , 1319-1332	5.8	185
11	Structural characterization of atomically regulated nanocrystals formed within single-walled carbon nanotubes using electron microscopy. <i>Accounts of Chemical Research</i> , 2002 , 35, 1054-62	24.3	93
10	The characterization of sub-nanometer scale structures within single walled carbon nanotubes. <i>AIP Conference Proceedings</i> , 2001 ,	0	4
9	The Crystallography of Metal Halides formed within Single Walled Carbon Nanotubes. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 633, 14311		2
8	Characterisation of the signal and noise transfer of CCD cameras for electron detection. <i>Microscopy Research and Technique</i> , 2000 , 49, 269-80	2.8	95
7	Discrete atom imaging of one-dimensional crystals formed within single-walled carbon nanotubes. <i>Science</i> , 2000 , 289, 1324-7	33.3	364
6	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> , 1998 , 75, 23-33	3.1	80
5	Multiple beam tilt microscopy for super resolved imaging. <i>Journal of Electron Microscopy</i> , 1997 , 46, 11-22		46
4	A Joint Structural Characterization of Colloidal Platinum by EXAFS and High-Resolution Electron Microscopy. <i>Angewandte Chemie International Edition in English</i> , 1989 , 28, 590-593		31
3	Structure and growth of colloidal metal particles. <i>Journal of Chemical Physics</i> , 1989 , 91, 603-611	3.9	24
2	A Morphology-Selective Copper Organosol. <i>Angewandte Chemie International Edition in English</i> , 1988 , 27, 1530-1533		74
1	The Morphology and Microstructure of Colloidal Silver and Gold. <i>Angewandte Chemie International Edition in English</i> , 1987 , 26, 676-678		48