

Ian K Robinson

List of Publications by Year in descending order

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295
papers

14,181
citations

28274
55
h-index

23533
111
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302
all docs

302
docs citations

302
times ranked

10724
citing authors

#	ARTICLE	IF	CITATIONS
1	3D Ultrastructural Imaging of Chromosomes Using Serial Block-Face Scanning Electron Microscopy (SBFSEM). <i>Dna</i> , 2022, 2, 30-43.	1.3	4
2	Real-space observation of fluctuating antiferromagnetic domains. <i>Science Advances</i> , 2022, 8, .	10.3	2
3	Origin of structural degradation in Li-rich layered oxide cathode. <i>Nature</i> , 2022, 606, 305-312.	27.8	206
4	Multimodal Imaging of Autofluorescent Sites Reveals Varied Chemical Speciation in SSZ-13 Crystals. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 5125-5131.	13.8	12
5	$\langle i \rangle$ Operando Bragg Coherent Diffraction Imaging of $\text{LiNi}_{0.8}\text{Mn}_{0.1}\text{Co}_{0.1}\text{O}_2$ Primary Particles within Commercially Printed NMC811 Electrode Sheets. <i>ACS Nano</i> , 2021, 15, 1321-1330.	14.6	23
6	Imaging the Phase Transformation in Single Particles of the Lithium Titanate Anode for Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 111-118.	5.1	16
7	X-ray Ptychography Imaging of Human Chromosomes After Low-dose Irradiation. <i>Chromosome Research</i> , 2021, 29, 107-126.	2.2	11
8	Combining Multicolor FISH with Fluorescence Lifetime Imaging for Chromosomal Identification and Chromosomal Sub Structure Investigation. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 631774.	3.5	1
9	Contribution of advanced fluorescence nano microscopy towards revealing mitotic chromosome structure. <i>Chromosome Research</i> , 2021, 29, 19-36.	2.2	2
10	Charge density waves in cuprate superconductors beyond the critical doping. <i>Npj Quantum Materials</i> , 2021, 6, .	5.2	55
11	Charge Condensation and Lattice Coupling Drives Stripe Formation in Nickelates. <i>Physical Review Letters</i> , 2021, 126, 177601.	7.8	9
12	Investigation of spatial nano-structure development of the hardened C3S pastes by serial block-face SEM. <i>Materials Characterization</i> , 2021, 174, 110973.	4.4	5
13	Laser-induced transient magnons in $\text{Sr}_{3}\text{Ir}_{2}\text{O}_7$ throughout the Brillouin zone. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	19
14	Structure of a seeded palladium nanoparticle and its dynamics during the hydride phase transformation. <i>Communications Chemistry</i> , 2021, 4, .	4.5	4
15	A Multimodal Label-Free Imaging Study of Zeolite Crystals. , 2021, , .		0
16	Quantitative phase measurements of human cell nuclei using X-ray ptychography. <i>Journal of Synchrotron Radiation</i> , 2021, 28, 1166-1173.	2.4	2
17	Ultra-Structural Imaging Provides 3D Organization of 46 Chromosomes of a Human Lymphocyte Prophase Nucleus. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5987.	4.1	5
18	Complex imaging of phase domains by deep neural networks. <i>IUCrJ</i> , 2021, 8, 12-21.	2.2	27

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19	Three-dimensional coherent X-ray diffraction imaging via deep convolutional neural networks. <i>Npj Computational Materials</i> , 2021, 7, .		8.7	20
20	Photoinduced anisotropic lattice dynamic response and domain formation in thermoelectric SnSe. <i>Npj Quantum Materials</i> , 2021, 6, .		5.2	6
21	Real Space Imaging of Spin Stripe Domain Fluctuations in a Complex Oxide. <i>Physical Review Letters</i> , 2021, 127, 275301.		7.8	3
22	Angle-Resolved Transport Measurements Reveal Electronic Nematicity in Cuprate Superconductors. <i>Journal of Superconductivity and Novel Magnetism</i> , 2020, 33, 87-92.		1.8	2
23	Domain Texture of the Orthorhombic Phase of $\text{La}_{2-x}\text{Ba}_x\text{CuO}_4$. <i>Journal of Superconductivity and Novel Magnetism</i> , 2020, 33, 99-106.		1.8	10
24	Strain and Electronic Nematicity in $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$. <i>Journal of Superconductivity and Novel Magnetism</i> , 2020, 33, 93-98.		1.8	3
25	Cryo-nanoscale chromosome imaging—future prospects. <i>Biophysical Reviews</i> , 2020, 12, 1257-1263.		3.2	5
26	Time-resolved <i>in situ</i> visualization of the structural response of zeolites during catalysis. <i>Nature Communications</i> , 2020, 11, 5901.		12.8	11
27	Complete Strain Mapping of Nanosheets of Tantalum Disulfide. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 43173-43179.		8.0	6
28	Electronic nematicity in $\text{Sr}_{2}\text{RuO}_4$. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 10654-10659.		7.1	14
29	Unusual Breathing Behavior of Optically Excited Barium Titanate Nanocrystals. <i>Crystals</i> , 2020, 10, 365.		2.2	1
30	Scaling behavior of low-temperature orthorhombic domains in the prototypical high-temperature superconductor $\text{La}_{2-x}\text{Ba}_x\text{CuO}_4$. <i>Physical Review B</i> , 2020, 101, 115111.		3.2	6
31	Concurrent probing of electron-lattice dephasing induced by photoexcitation in TaSeTe using ultrafast electron diffraction. <i>Physical Review B</i> , 2020, 101, .		3.2	6
32	Ultrafast x-ray diffraction study of melt-front dynamics in polycrystalline thin films. <i>Science Advances</i> , 2020, 6, eaax2445.		10.3	21
33	In-situ investigation of crystallization and structural evolution of a metallic glass in three dimensions at nano-scale. <i>Materials and Design</i> , 2020, 190, 108551.		7.0	4
34	Phase-contrast 3D tomography of HeLa cells grown in PLLA polymer electrospun scaffolds using synchrotron X-rays. <i>Journal of Synchrotron Radiation</i> , 2020, 27, 158-163.		2.4	7
35	Evolution of ferroelastic domain walls during phase transitions in barium titanate nanoparticles. <i>Physical Review Materials</i> , 2020, 4, .		2.4	12
36	Super-Resolution Microscopy Reveals Shape and Distribution of Dislocations in Single-Crystal Nanocomposites. <i>Angewandte Chemie</i> , 2019, 131, 17489-17495.		2.0	0

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37	Spontaneous Magnetic Superdomain Wall Fluctuations in an Artificial Antiferromagnet. <i>Physical Review Letters</i> , 2019, 123, 197202.	7.8	20
38	Super-Resolution Microscopy Reveals Shape and Distribution of Dislocations in Single-Crystal Nanocomposites. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 17328-17334.	13.8	8
39	Visualization of the effect of additives on the nanostructures of individual bio-inspired calcite crystals. <i>Chemical Science</i> , 2019, 10, 1176-1185.	7.4	26
40	Three-Dimensional Characterization of Hardened Paste of Hydrated Tricalcium Silicate by Serial Block-Face Scanning Electron Microscopy. <i>Materials</i> , 2019, 12, 1882.	2.9	9
41	X-ray ptychography on low-dimensional hard-condensed matter materials. <i>Applied Physics Reviews</i> , 2019, 6, 011306.	11.3	20
42	Charge density wave memory in a cuprate superconductor. <i>Nature Communications</i> , 2019, 10, 1435.	12.8	30
43	Investigation of Three-Dimensional Structure and Pigment Surrounding Environment of a TiO ₂ Containing Waterborne Paint. <i>Materials</i> , 2019, 12, 464.	2.9	3
44	Vacancy-Driven Noncubic Local Structure and Magnetic Anisotropy Tailoring in Fe ₃ O ₄ . <i>Physical Review X</i> , 2019, 9, .	11.3	11
45	Use of 3D imaging for providing insights into high-order structure of mitotic chromosomes. <i>Chromosoma</i> , 2019, 128, 7-13.	2.2	9
46	Pore structure development during hydration of tricalcium silicate by X-ray nano-imaging in three dimensions. <i>Construction and Building Materials</i> , 2019, 200, 318-323.	7.2	21
47	3D microstructure reconstruction of casting aluminum alloy based on serial block-face scanning electron microscopy. <i>Journal of Alloys and Compounds</i> , 2019, 778, 721-730.	5.5	7
48	Resolving 500 nm axial separation by multi-slice X-ray ptychography. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2019, 75, 336-341.	0.1	7
49	Extending the depth of field for ptychography using complex-valued wavelets. <i>Optics Letters</i> , 2019, 44, 503.	3.3	2
50	Phase modulation due to crystal diffraction by ptychographic imaging. <i>Physical Review B</i> , 2018, 97, .	3.2	5
51	Three-dimensional imaging and analysis of the internal structure of SAPO-34 zeolite crystals. <i>RSC Advances</i> , 2018, 8, 33631-33636.	3.6	4
52	Coherence 2018. <i>Synchrotron Radiation News</i> , 2018, 31, 39-40.	0.8	0
53	Imaging antiferromagnetic antiphase domain boundaries using magnetic Bragg diffraction phase contrast. <i>Nature Communications</i> , 2018, 9, 5013.	12.8	13
54	Bragg coherent diffraction imaging of iron diffusion into gold nanocrystals. <i>New Journal of Physics</i> , 2018, 20, 113026.	2.9	11

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55	High-Resolution and High-Throughput Ptychography with Depth Sensitivity Using Multilayer Laue Lenses. <i>Microscopy and Microanalysis</i> , 2018, 24, 30-31.	0.4	1
56	X-ray ptychography using randomized zone plates. <i>Optics Express</i> , 2018, 26, 14915.	3.4	10
57	Multi-slice ptychography with large numerical aperture multilayer Laue lenses. <i>Optica</i> , 2018, 5, 601.	9.3	57
58	Multi-Modal Ptychography: Recent Developments and Applications. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1054.	2.5	5
59	Coherent diffraction study of calcite crystallization during the hydration of tricalcium silicate. <i>Materials and Design</i> , 2018, 157, 251-257.	7.0	12
60	Investigation of Three-Dimensional Microstructure of Tricalcium Silicate (C3S) by Electron Microscopy. <i>Materials</i> , 2018, 11, 1110.	2.9	6
61	Glancing-incidence focussed ion beam milling: A coherent X-ray diffraction study of 3D nano-scale lattice strains and crystal defects. <i>Acta Materialia</i> , 2018, 154, 113-123.	7.9	28
62	Radiation-driven rotational motion of nanoparticles. <i>Journal of Synchrotron Radiation</i> , 2018, 25, 757-762.	2.4	10
63	Reaching the third dimension. <i>Nature Materials</i> , 2017, 16, 160-161.	27.5	3
64	3D lattice distortions and defect structures in ion-implanted nano-crystals. <i>Scientific Reports</i> , 2017, 7, 45993.	3.3	96
65	Procedures for cryogenic X-ray ptychographic imaging of biological samples. <i>IUCrJ</i> , 2017, 4, 147-151.	2.2	9
66	Nucleation of fractal nanocrystallites upon annealing of Fe-based metallic glass. <i>Journal of Materials Research</i> , 2017, 32, 1880-1887.	2.6	6
67	Three-dimensional positioning and structure of chromosomes in a human prophase nucleus. <i>Science Advances</i> , 2017, 3, e1602231.	10.3	37
68	Bragg Coherent Diffractive Imaging of Zinc Oxide Acoustic Phonons at Picosecond Timescales. <i>Scientific Reports</i> , 2017, 7, 9823.	3.3	12
69	Artifact mitigation of ptychography integrated with on-the-fly scanning probe microscopy. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	34
70	Performance evaluation of Bragg coherent diffraction imaging. <i>New Journal of Physics</i> , 2017, 19, 103001.	2.9	18
71	Bragg projection ptychography on niobium phase domains. <i>Physical Review B</i> , 2017, 96, .	3.2	3
72	Static charge-density-wave order in the superconducting state of $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$. <i>Physical Review B</i> , 2017, 95, .	3.2	16

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73	3D X-Ray Nanotomography of Cells Grown on Electrospun Scaffolds. <i>Macromolecular Bioscience</i> , 2017, 17, 1600236.	4.1	23
74	Micro-beam Laue alignment of multi-reflection Bragg coherent diffraction imaging measurements. <i>Journal of Synchrotron Radiation</i> , 2017, 24, 1048-1055.	2.4	24
75	Introducing the holo-TIE approach to cellular imaging. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2017, 73, 281-281.	0.1	0
76	Optical design and simulation of a new coherence beamline at NSLS-II. , 2017, , .		5
77	Quantitative two-dimensional strain mapping of small core-shell FePt@Fe ₃ O ₄ nanoparticles. <i>New Journal of Physics</i> , 2016, 18, 033016.	2.9	5
78	Probe-diverse ptychography. <i>Ultramicroscopy</i> , 2016, 171, 77-81.	1.9	6
79	Phase retrieval by coherent modulation imaging. <i>Nature Communications</i> , 2016, 7, 13367.	12.8	125
80	A single-image retrieval method for edge illumination X-ray phase-contrast imaging: Application and noise analysis. <i>Physica Medica</i> , 2016, 32, 1759-1764.	0.7	16
81	The use of DAPI fluorescence lifetime imaging for investigating chromatin condensation in human chromosomes. <i>Scientific Reports</i> , 2016, 6, 31417.	3.3	64
82	Strain-relief by single dislocation loops in calcite crystals grown on self-assembled monolayers. <i>Nature Communications</i> , 2016, 7, 11878.	12.8	41
83	Multimodality hard-x-ray imaging of a chromosome with nanoscale spatial resolution. <i>Scientific Reports</i> , 2016, 6, 20112.	3.3	51
84	Materials science in the time domain using Bragg coherent diffraction imaging. <i>Journal of Optics (United Kingdom)</i> , 2016, 18, 054007.	2.2	11
85	Novel silica stabilization method for the analysis of fine nanocrystals using coherent X-ray diffraction imaging. <i>Journal of Synchrotron Radiation</i> , 2016, 23, 953-958.	2.4	10
86	Imperfection and radiation damage in protein crystals studied with coherent radiation. <i>Journal of Synchrotron Radiation</i> , 2016, 23, 228-237.	2.4	5
87	Nuclear incorporation of iron during the eukaryotic cell cycle. <i>Journal of Synchrotron Radiation</i> , 2016, 23, 1490-1497.	2.4	9
88	X-ray absorption, phase and dark-field tomography through a beam tracking approach. <i>Scientific Reports</i> , 2015, 5, 16318.	3.3	28
89	Coherent three-dimensional X-ray cryo-imaging. <i>IUCrJ</i> , 2015, 2, 477-478.	2.2	1
90	Fly-scan ptychography. <i>Scientific Reports</i> , 2015, 5, 9074.	3.3	93

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91	Towards single particle imaging of human chromosomes at SACLAC. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015, 48, 244007.	1.5	7
92	Lensless Imaging of Nano- and Meso-Scale Dynamics with X-rays. <i>Microscopy and Microanalysis</i> , 2015, 21, 2165-2166.	0.4	0
93	Three-dimensional imaging of dislocation propagation during crystal growth and dissolution. <i>Nature Materials</i> , 2015, 14, 780-784.	27.5	143
94	Imaging transient melting of a nanocrystal using an X-ray laser. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 7444-7448.	7.1	59
95	My life and the world of crystals. <i>Physica Scripta</i> , 2015, 90, 048003.	2.5	0
96	Karyotyping Human Chromosomes by Optical and X-Ray Ptychography Methods. <i>Biophysical Journal</i> , 2015, 108, 706-713.	0.5	20
97	Single-image phase retrieval using an edge illumination X-ray phase-contrast imaging setup. <i>Journal of Synchrotron Radiation</i> , 2015, 22, 1072-1077.	2.4	33
98	In Situ Bragg Coherent Diffraction Imaging Study of a Cement Phase Microcrystal during Hydration. <i>Crystal Growth and Design</i> , 2015, 15, 3087-3091.	3.0	27
99	Beyond crystallography: Diffractive imaging using coherent x-ray light sources. <i>Science</i> , 2015, 348, 530-535.	12.6	596
100	3D Imaging of Twin Domain Defects in Gold Nanoparticles. <i>Nano Letters</i> , 2015, 15, 4066-4070.	9.1	68
101	Evaluation of partial coherence correction in X-ray ptychography. <i>Optics Express</i> , 2015, 23, 5452.	3.4	32
102	Achieving hard X-ray nanofocusing using a wedged multilayer Laue lens. <i>Optics Express</i> , 2015, 23, 12496.	3.4	27
103	Deformation Twinning of a Silver Nanocrystal under High Pressure. <i>Nano Letters</i> , 2015, 15, 7644-7649.	9.1	27
104	Beam tracking approach for single-“shot” retrieval of absorption, refraction, and dark-“field” signals with laboratory x-“ray” sources. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	55
105	Imaging Lattice dynamics in individual nanocrystals. , 2014, , .		0
106	Platinum blue staining of cells grown in electrospun scaffolds. <i>BioTechniques</i> , 2014, 57, 137-41.	1.8	4
107	Staining and Embedding of Human Chromosomes for 3-D Serial Block-Face Scanning Electron Microscopy. <i>BioTechniques</i> , 2014, 57, 302-307.	1.8	14
108	A simple filtration technique for obtaining purified human chromosomes in suspension. <i>BioTechniques</i> , 2014, 56, 257-261.	1.8	12

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109	Coherent X-ray Diffraction Imaging and Characterization of Strain in Silicon-on-Insulator Nanostructures. <i>Advanced Materials</i> , 2014, 26, 7747-7763.	21.0	28
110	Brownian motion studies of viscoelastic colloidal gels by rotational single particle tracking. <i>IUCrJ</i> , 2014, 1, 172-178.	2.2	14
111	Phase-contrast microscopy at high x-ray energy with a laboratory setup. <i>Optics Letters</i> , 2014, 39, 3332.	3.3	35
112	Continuous scanning mode for ptychography. <i>Optics Letters</i> , 2014, 39, 6066.	3.3	68
113	Observations of artefacts in the x-ray ptychography method. <i>Optics Express</i> , 2014, 22, 10294.	3.4	12
114	Optimization of overlap uniformness for ptychography. <i>Optics Express</i> , 2014, 22, 12634.	3.4	150
115	Virtual edge illumination and one dimensional beam tracking for absorption, refraction, and scattering retrieval. <i>Applied Physics Letters</i> , 2014, 104, 134102.	3.3	26
116	Dynamic Imaging Using Ptychography. <i>Physical Review Letters</i> , 2014, 112, 113901.	7.8	60
117	Coherent X-Ray Imaging of Collagen Fibril Distributions within Intact Tendons. <i>Biophysical Journal</i> , 2014, 106, 459-466.	0.5	12
118	Three-dimensional analysis of the spatial distribution of iron oxide particles in a decorative coating by electron microscopic imaging. <i>Progress in Organic Coatings</i> , 2014, 77, 1069-1072.	3.9	9
119	Scanning electron microscope studies of human metaphase chromosomes. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2014, 372, 20130144.	3.4	10
120	Hard X-ray dark-field imaging with incoherent sample illumination. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	145
121	Sensitivity of edge illumination X-ray phase-contrast imaging. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2014, 372, 20130128.	3.4	7
122	Steve Wilkins 1946–2013. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2014, 372, 20130393.	3.4	0
123	Edge illumination X-ray phase-contrast imaging: nanoradian sensitivity at synchrotrons and translation to conventional sources. <i>Journal of Physics: Conference Series</i> , 2014, 499, 012006.	0.4	9
124	Laboratory-based edge-illumination phase-contrast imaging: Dark-field retrieval and high-resolution implementations. , 2014, , .		1
125	Atomic Diffusion within Individual Gold Nanocrystal. <i>Scientific Reports</i> , 2014, 4, 6765.	3.3	33
126	Three-dimensional imaging of acoustic phonons using an X-ray laser. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2014, 70, C288-C288.	0.1	0

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127	Core-Shell strain structure of zeolite microcrystals. <i>Nature Materials</i> , 2013, 12, 729-734.	27.5	68
128	Coherent X-Ray Diffraction Imaging of Morphology and Strain in Nanomaterials. <i>Jom</i> , 2013, 65, 1202-1207.	1.9	22
129	Ultrafast Three-Dimensional Imaging of Lattice Dynamics in Individual Gold Nanocrystals. <i>Science</i> , 2013, 341, 56-59.	12.6	264
130	Coherent diffraction imaging of nanoscale strain evolution in a single crystal under high pressure. <i>Nature Communications</i> , 2013, 4, 1680.	12.8	88
131	Three-Dimensional Structure Analysis and Percolation Properties of a Barrier Marine Coating. <i>Scientific Reports</i> , 2013, 3, 1177.	3.3	51
132	Mechanical breakdown of bent silicon nanowires imaged by coherent x-ray diffraction. <i>New Journal of Physics</i> , 2013, 15, 123007.	2.9	9
133	Nanoparticle Structure by Coherent X-ray Diffraction. <i>Journal of the Physical Society of Japan</i> , 2013, 82, 021012.	1.6	26
134	X-Ray Phase-Contrast Imaging with Nanoradian Angular Resolution. <i>Physical Review Letters</i> , 2013, 110, 138105.	7.8	77
135	Translation position determination in ptychographic coherent diffraction imaging. <i>Optics Express</i> , 2013, 21, 13592.	3.4	242
136	11 nm hard X-ray focus from a large-aperture multilayer Laue lens. <i>Scientific Reports</i> , 2013, 3, 3562.	3.3	117
137	Improved sensitivity at synchrotrons using edge illumination X-ray phase-contrast imaging. <i>Journal of Instrumentation</i> , 2013, 8, C06002-C06002.	1.2	4
138	Imaging nanoparticles using coherent diffraction. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2013, 69, s7-s7.	0.3	0
139	Three-dimensional Imaging of Crystalline Inclusions Embedded in Intact Maize Stalks. <i>Scientific Reports</i> , 2013, 3, 2843.	3.3	4
140	Radiation-induced bending of silicon-on-insulator nanowires probed by coherent x-ray diffractive imaging. <i>New Journal of Physics</i> , 2012, 14, 063029.	2.9	10
141	Quantitative X-ray wavefront measurements of Fresnel zone plate and K-B mirrors using phase retrieval. <i>Optics Express</i> , 2012, 20, 24038.	3.4	29
142	High-resolution three-dimensional partially coherent diffraction imaging. <i>Nature Communications</i> , 2012, 3, 993.	12.8	159
143	Three-dimensional Bragg coherent diffraction imaging of an extended ZnO crystal. <i>Journal of Applied Crystallography</i> , 2012, 45, 778-784.	4.5	35
144	Bonsu: the interactive phase retrieval suite. <i>Journal of Applied Crystallography</i> , 2012, 45, 840-843.	4.5	6

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145	Coherent x-ray diffraction imaging of paint pigment particles by scanning a phase plate modulator. New Journal of Physics, 2011, 13, 103022.	2.9	4
146	Imaging matter in different spaces. Physics Magazine, 2011, 4, .	0.1	1
147	Coherent X-ray Diffraction Imaging for Strain Analysis on Single ZnO Nanorod. , 2011, , .		0
148	A technique for high-frequency laser-pump X-ray probe experiments at the APS. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 649, 191-193.	1.6	16
149	Differential stress induced by thiol adsorption on faceted nanocrystals. Nature Materials, 2011, 10, 862-866.	27.5	65
150	Coherent x-ray diffraction imaging of ZnO nanostructures under confined illumination. New Journal of Physics, 2011, 13, 033006.	2.9	10
151	Coherent diffractive imaging of solid state reactions in zinc oxide crystals. New Journal of Physics, 2011, 13, 113009.	2.9	10
152	Propagation uniqueness in three-dimensional coherent diffractive imaging. Physical Review B, 2011, 83, .	3.2	22
153	Proximity effects and nonequilibrium superconductivity in transition-edge sensors. Physical Review B, 2011, 84, .	3.2	64
154	Elastic relaxation in an ultrathin strained silicon-on-insulator structure. Applied Physics Letters, 2011, 99, 114103.	3.3	19
155	RECENT DEVELOPMENT FOR SYNTHESIS OF MAGNETIC NANOPARTICLES FOR BIOMEDICAL APPLICATIONS. International Journal of Nanoscience, 2011, 10, 883-890.	0.7	2
156	Collagen imaged by Coherent X-ray Diffraction: towards a complementary tool to conventional scanning SAXS. Journal of Physics: Conference Series, 2010, 247, 012004.	0.4	5
157	New Chemical Methods for Synthesis of Magnetic Nanoparticles for Biomedical Applications. , 2010, , .		0
158	Confocal Microscope Alignment of Nanocrystals for Coherent Diffraction Imaging. AIP Conference Proceedings, 2010, , .	0.4	12
159	The Diamond Beamline I13L for Imaging and Coherence. , 2010, , .		11
160	Coherent X-ray diffraction investigation of twinned microcrystals. Journal of Synchrotron Radiation, 2010, 17, 751-760.	2.4	19
161	Three-dimensional imaging of strain in a single ZnO nanorod. Nature Materials, 2010, 9, 120-124.	27.5	245
162	Analysis of strain and stacking faults in single nanowires using Bragg coherent diffraction imaging. New Journal of Physics, 2010, 12, 035013.	2.9	71

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163	Focus on X-ray beams with high coherence. <i>New Journal of Physics</i> , 2010, 12, 035002.	2.9	18
164	Exploration of crystal strains using coherent x-ray diffraction. <i>New Journal of Physics</i> , 2010, 12, 035022.	2.9	23
165	Imaging of complex density in silver nanocubes by coherent x-ray diffraction. <i>New Journal of Physics</i> , 2010, 12, 035019.	2.9	40
166	Synthesis of core-shell gold coated magnetic nanoparticles and their interaction with thiolated DNA. <i>Nanoscale</i> , 2010, 2, 2624.	5.6	195
167	Phase retrieval of diffraction from highly strained crystals. <i>Physical Review B</i> , 2010, 82, .	3.2	23
168	Structural inhomogeneity in silicon-on-insulator probed with coherent X-ray diffraction. <i>Zeitschrift fÃ¼r Kristallographie</i> , 2010, 225, .	1.1	4
169	Critical thickness for the agglomeration of thin metal films. <i>Physical Review B</i> , 2009, 79, .	3.2	29
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