

Keith A Nugent

List of Publications by Year in descending order

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237
papers

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Noninterferometric Phase Imaging with Partially Coherent Light. <i>Physical Review Letters</i> , 1998, 80, 2586-2589.	7.8	698
2	Quantitative Phase Imaging Using Hard X Rays. <i>Physical Review Letters</i> , 1996, 77, 2961-2964.	7.8	668
3	Quantitative optical phase microscopy. <i>Optics Letters</i> , 1998, 23, 817.	3.3	500
4	Coherent lensless X-ray imaging. <i>Nature Photonics</i> , 2010, 4, 833-839.	31.4	444
5	Coherent methods in the X-ray sciences. <i>Advances in Physics</i> , 2010, 59, 1-99.	14.4	433
6	Keyhole coherent diffractive imaging. <i>Nature Physics</i> , 2008, 4, 394-398.	16.7	289
7	Fresnel Coherent Diffractive Imaging. <i>Physical Review Letters</i> , 2006, 97, 025506.	7.8	252
8	Partially coherent fields, the transport-of-intensity equation, and phase uniqueness. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1995, 12, 1942.	1.5	230
9	Rapid quantitative phase imaging using the transport of intensity equation. <i>Optics Communications</i> , 1997, 133, 339-346.	2.1	225
10	Diffractive imaging of highly focused X-ray fields. <i>Nature Physics</i> , 2006, 2, 101-104.	16.7	198
11	Quantitative phase-amplitude microscopy. III. The effects of noise. <i>Journal of Microscopy</i> , 2004, 214, 51-61.	1.8	182
12	Quantitative phase-amplitude microscopy I: optical microscopy. <i>Journal of Microscopy</i> , 2002, 206, 194-203.	1.8	181
13	Quantitative phase-sensitive imaging in a transmission electron microscope. <i>Ultramicroscopy</i> , 2000, 83, 67-73.	1.9	180
14	Refractive index measurement in viable cells using quantitative phase-amplitude microscopy and confocal microscopy. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2005, 65A, 88-92.	1.5	177
15	Phase radiography with neutrons. <i>Nature</i> , 2000, 408, 158-159.	27.8	172
16	Phase retrieval with the transport-of-intensity equation: matrix solution with use of Zernike polynomials. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1995, 12, 1932.	1.5	166
17	Phase retrieval with the transport-of-intensity equation II Orthogonal series solution for nonuniform illumination. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1996, 13, 1670.	1.5	162
18	Imaging cellular architecture with X-rays. <i>Current Opinion in Structural Biology</i> , 2010, 20, 623-631.	5.7	158

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19	Diffractive Imaging Using Partially Coherent X Rays. <i>Physical Review Letters</i> , 2009, 103, 243902.	7.8	157
20	Megahertz serial crystallography. <i>Nature Communications</i> , 2018, 9, 4025.	12.8	147
21	Coherence Properties of Individual Femtosecond Pulses of an X-Ray Free-Electron Laser. <i>Physical Review Letters</i> , 2011, 107, 144801.	7.8	145
22	Kinoform phase plates for focal plane irradiance profile control. <i>Optics Letters</i> , 1994, 19, 417.	3.3	140
23	Quantitative phase tomography. <i>Optics Communications</i> , 2000, 175, 329-336.	2.1	133
24	Lensless imaging using broadband X-ray sources. <i>Nature Photonics</i> , 2011, 5, 420-424.	31.4	129
25	Observation of an x-ray vortex. <i>Optics Letters</i> , 2002, 27, 1752.	3.3	118
26	Coherent diffractive imaging and partial coherence. <i>Physical Review B</i> , 2007, 75, .	3.2	113
27	X-ray phase imaging: Demonstration of extended conditions with homogeneous objects. <i>Optics Express</i> , 2004, 12, 2960.	3.4	111
28	Abel inversion using fast Fourier transforms. <i>Applied Optics</i> , 1988, 27, 1956.	2.1	107
29	Biomolecular imaging and electronic damage using X-ray free-electron lasers. <i>Nature Physics</i> , 2011, 7, 142-146.	16.7	107
30	Interferogram analysis using an accurate fully automatic algorithm. <i>Applied Optics</i> , 1985, 24, 3101.	2.1	103
31	The soft x-ray instrument for materials studies at the linac coherent light source x-ray free-electron laser. <i>Review of Scientific Instruments</i> , 2012, 83, 043107.	1.3	103
32	X-ray focusing using square channel capillary arrays. <i>Review of Scientific Instruments</i> , 1991, 62, 1542-1561.	1.3	96
33	Unique Phase Recovery for Nonperiodic Objects. <i>Physical Review Letters</i> , 2003, 91, 203902.	7.8	94
34	Spatial coherence measurement of X-ray undulator radiation. <i>Optics Communications</i> , 2001, 195, 79-84.	2.1	92
35	A Phase Odyssey. <i>Physics Today</i> , 2001, 54, 27-32.	0.3	89
36	Refractive-index profiling of optical fibers with axial symmetry by use of quantitative phase microscopy. <i>Optics Letters</i> , 2002, 27, 2061.	3.3	89

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37	On the concentration, focusing, and collimation of x-rays and neutrons using microchannel plates and configurations of holes. <i>Review of Scientific Instruments</i> , 1989, 60, 1026-1036.	1.3	86
38	Extracting coherent modes from partially coherent wavefields. <i>Optics Letters</i> , 2009, 34, 2198.	3.3	86
39	Neutron Imaging of Laser Fusion Targets. <i>Science</i> , 1988, 241, 956-958.	12.6	85
40	Multiple wavelength diffractive imaging. <i>Physical Review A</i> , 2009, 79, .	2.5	85
41	Arbitrarily shaped high-coherence electron bunches from cold atoms. <i>Nature Physics</i> , 2011, 7, 785-788.	16.7	82
42	Penumbra imaging of high energy X-rays from laser-produced plasmas. <i>Optics Communications</i> , 1984, 49, 393-396.	2.1	77
43	Simultaneous X-ray fluorescence and ptychographic microscopy of <i>Cyclotella meneghiniana</i> . <i>Optics Express</i> , 2012, 20, 18287.	3.4	75
44	Measurement of the spatial coherence of a soft-x-ray laser. <i>Physical Review Letters</i> , 1992, 68, 588-591.	7.8	68
45	Refractive index profiling of axially symmetric optical fibers: a new technique. <i>Optics Express</i> , 2005, 13, 3277.	3.4	66
46	Quantitative coherent diffractive imaging of an integrated circuit at a spatial resolution of 20 nm. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	65
47	Phase retrieval from images in the presence of first-order vortices. <i>Physical Review E</i> , 2001, 63, 037602.	2.1	62
48	Wave field determination using three-dimensional intensity information. <i>Physical Review Letters</i> , 1992, 68, 2261-2264.	7.8	61
49	Iterative image reconstruction algorithms using wave-front intensity and phase variation. <i>Optics Letters</i> , 2005, 30, 1638.	3.3	61
50	An X-ray all-sky monitor with extraordinary sensitivity. <i>Monthly Notices of the Royal Astronomical Society</i> , 1996, 279, 733-750.	4.4	60
51	Quantitative phase amplitude microscopy IV: imaging thick specimens. <i>Journal of Microscopy</i> , 2004, 214, 62-69.	1.8	57
52	Ptychographic Fresnel coherent diffractive imaging. <i>Physical Review A</i> , 2009, 80, .	2.5	57
53	X-ray noninterferometric phase imaging: a unified picture. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2007, 24, 536.	1.5	56
54	Atom-Scale Ptychographic Electron Diffractive Imaging of Boron Nitride Cones. <i>Physical Review Letters</i> , 2012, 108, 073901.	7.8	52

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55	Measurement of the Spatial Coherence Function of Undulator Radiation using a Phase Mask. <i>Physical Review Letters</i> , 2003, 90, 074801.	7.8	51
56	<title>LOBSTER-ISS: an imaging x-ray all-sky monitor for the International Space Station</title>. , 2002, , .		49
57	High-resolution X-ray imaging of <i>Plasmodium falciparum</i> -infected red blood cells. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2008, 73A, 949-957.	1.5	49
58	Phase-Diverse Coherent Diffractive Imaging: High Sensitivity with Low Dose. <i>Physical Review Letters</i> , 2011, 106, 013903.	7.8	49
59	Focusing of X-rays by Total External Reflection from a Paraboloidally Tapered Glass Capillary. <i>Journal of Synchrotron Radiation</i> , 1995, 2, 296-299.	2.4	47
60	Single Cell Volume Measurement by Quantitative Phase Microscopy (QPM): A Case Study of Erythrocyte Morphology. <i>Cellular Physiology and Biochemistry</i> , 2006, 17, 193-200.	1.6	44
61	An experimental study of magnetic fields in plasmas created by high intensity one micron laser radiation. <i>Physics of Fluids</i> , 1985, 28, 2286.	1.4	43
62	Noninterferometric quantitative phase imaging with soft x rays. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2000, 17, 1732.	1.5	43
63	Quantitative Phase Radiography with Polychromatic Neutrons. <i>Physical Review Letters</i> , 2003, 91, 145502.	7.8	43
64	Phase retrieval in x-ray imaging based on using structured illumination. <i>Physical Review A</i> , 2008, 78, .	2.5	41
65	Neutron imaging of inertial confinement fusion targets at Nova. <i>Review of Scientific Instruments</i> , 1988, 59, 1694-1696.	1.3	40
66	X-ray phase vortices: theory and experiment. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2004, 21, 1575.	1.5	40
67	Quantitative X-ray phase tomography with sub-micron resolution. <i>Optics Communications</i> , 2003, 217, 53-58.	2.1	39
68	X-ray focusing with lobster-eye optics: a comparison of theory with experiment. <i>Applied Optics</i> , 1996, 35, 4420.	2.1	38
69	Matter-wave phase measurement: A noninterferometric approach. <i>Physical Review A</i> , 2000, 61, .	2.5	38
70	Diffraction with wavefront curvature: a path to unique phase recovery. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2005, 61, 373-381.	0.3	38
71	Three-dimensional electronic spectroscopy of excitons in asymmetric double quantum wells. <i>Journal of Chemical Physics</i> , 2011, 135, 044510.	3.0	38
72	Twin-image elimination in Gabor holography. <i>Optics Communications</i> , 1990, 78, 293-299.	2.1	37

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73	Fresnel coherent diffractive imaging: treatment and analysis of data. <i>New Journal of Physics</i> , 2010, 12, 035020.	2.9	37
74	Whole-cell phase contrast imaging at the nanoscale using Fresnel Coherent Diffractive Imaging Tomography. <i>Scientific Reports</i> , 2013, 3, 2288.	3.3	37
75	Experimental Measurement of the Four-Dimensional Coherence Function for an Undulator X-Ray Source. <i>Physical Review Letters</i> , 2007, 98, 224801.	7.8	36
76	Diffraction imaging: The limits of partial coherence. <i>Physical Review B</i> , 2012, 86, .	3.2	36
77	Colorimetric histology using plasmonically active microscope slides. <i>Nature</i> , 2021, 598, 65-71.	27.8	36
78	Atomic force microscopy for the determination of refractive index profiles of optical fibers and waveguides: A quantitative study. <i>Journal of Applied Physics</i> , 1997, 82, 2730-2734.	2.5	35
79	Fabrication, modeling, and direct evanescent field measurement of tapered optical fiber sensors. <i>Journal of Applied Physics</i> , 1999, 85, 3395-3398.	2.5	35
80	K α emission measurements and superthermal electron transport in layered laser-irradiated disk targets. <i>Physical Review A</i> , 1987, 35, 4306-4313.	2.5	34
81	X-ray tomographic imaging of the complex refractive index. <i>Applied Physics Letters</i> , 2003, 83, 1480-1482.	3.3	34
82	Partially coherent diffraction patterns and coherence measurement. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1991, 8, 1574.	1.5	33
83	Nanoscale Fresnel coherent diffraction imaging tomography using ptychography. <i>Optics Express</i> , 2012, 20, 24678.	3.4	32
84	Neutron penumbral imaging of laser-fusion targets. <i>Laser and Particle Beams</i> , 1991, 9, 99-118.	1.0	30
85	X-ray focusing using cylindrical-channel capillary arrays I Theory. <i>Applied Optics</i> , 1993, 32, 6316.	2.1	29
86	Precision measurement of the electromagnetic fields in the focal region of a high-numerical-aperture lens using a tapered fiber probe. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2002, 19, 1689.	1.5	29
87	Characterization of optical fibers using near-field scanning optical microscopy. <i>Journal of Applied Physics</i> , 1994, 75, 2753-2756.	2.5	28
88	X-ray phase contrast tomography with a bending magnet source. <i>Review of Scientific Instruments</i> , 2005, 76, 083707.	1.3	28
89	Field characterization of a D-shaped optical fiber using scanning near-field optical microscopy. <i>Journal of Applied Physics</i> , 1997, 82, 510-513.	2.5	27
90	Diffractive imaging using a polychromatic high-harmonic generation soft-x-ray source. <i>Journal of Applied Physics</i> , 2009, 106, .	2.5	27

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91	Fresnel coherent diffraction tomography. <i>Optics Express</i> , 2010, 18, 11746.	3.4	27
92	Determining electronic damage to biomolecular structures in x-ray free-electron-laser imaging experiments. <i>Physical Review A</i> , 2013, 87, .	2.5	27
93	Submicron STIM tomography reconstruction techniques. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1991, 54, 390-396.	1.4	26
94	X-ray optics of tapered capillaries. <i>Applied Optics</i> , 1995, 34, 7263.	2.1	26
95	Coded aperture imaging: a Fourier space analysis. <i>Applied Optics</i> , 1987, 26, 563.	2.1	25
96	Quantitative phase-amplitude microscopy II: differential interference contrast imaging for biological TEM. <i>Journal of Microscopy</i> , 2002, 206, 204-208.	1.8	25
97	X-ray imaging: a generalized approach using phase-space tomography. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2005, 22, 1691.	1.5	25
98	Synchrotron beam coherence: a spatially resolved measurement. <i>Optics Letters</i> , 2005, 30, 204.	3.3	25
99	Use of a complex constraint in coherent diffractive imaging. <i>Optics Express</i> , 2010, 18, 1981.	3.4	25
100	Dynamic sample imaging in coherent diffractive imaging. <i>Optics Letters</i> , 2011, 36, 1954.	3.3	23
101	Spatial coherence of electron bunches extracted from an arbitrarily shaped cold atom electron source. <i>Optics Express</i> , 2012, 20, 3967.	3.4	23
102	The holographic twin image problem: a deterministic phase solution. <i>Optics Communications</i> , 2000, 183, 7-14.	2.1	22
103	X-ray vortex beams: A theoretical analysis. <i>Optics Express</i> , 2003, 11, 2315.	3.4	22
104	Phase contrast radiography: Image modeling and optimization. <i>Review of Scientific Instruments</i> , 2004, 75, 5271-5276.	1.3	22
105	Plasmon-induced enhancement of ptychographic phase microscopy via sub-surface nanoaperture arrays. <i>Nature Photonics</i> , 2021, 15, 222-229.	31.4	22
106	Characterization of plasmas produced by a laser line focus. <i>Physical Review A</i> , 1985, 32, 2899-2908.	2.5	21
107	Protein Crystal Diffraction Patterns Using a Capillary-Focused Synchrotron X-ray Beam. <i>Journal of Synchrotron Radiation</i> , 1996, 3, 289-295.	2.4	21
108	High-harmonic-generation spectrum reconstruction from Young's double-slits interference pattern using the maximum entropy method. <i>Optics Letters</i> , 2008, 33, 2341.	3.3	21

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109	Quantitative phase measurement in coherent diffraction imaging. <i>Optics Express</i> , 2008, 16, 3342.	3.4	21
110	The measurement of phase through the propagation of intensity: an introduction. <i>Contemporary Physics</i> , 2011, 52, 55-69.	1.8	21
111	Astigmatic phase retrieval: an experimental demonstration. <i>Optics Express</i> , 2009, 17, 11905.	3.4	20
112	X-ray laser-induced electron dynamics observed by femtosecond diffraction from nanocrystals of Buckminsterfullerene. <i>Science Advances</i> , 2016, 2, e1601186.	10.3	20
113	Application of penumbral imaging to thermonuclear neutrons. <i>Journal of Applied Physics</i> , 1985, 58, 2508-2515.	2.5	19
114	Phase-amplitude imaging: its application to fully automated analysis of magnetic field measurements in laser-produced plasmas. <i>Applied Optics</i> , 1987, 26, 1674.	2.1	19
115	Phase-amplitude imaging: The fully automated analysis of megagauss magnetic field measurements in laser-produced plasmas. <i>Journal of Applied Physics</i> , 1988, 64, 3845-3850.	2.5	19
116	Coherence measurement technique for short-wavelength light sources. <i>Review of Scientific Instruments</i> , 1992, 63, 2146-2151.	1.3	18
117	Fresnel diffractive imaging: Experimental study of coherence and curvature. <i>Physical Review B</i> , 2008, 77, .	3.2	18
118	Continuous X-ray diffractive field in protein nanocrystallography. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2013, 69, 108-118.	0.3	18
119	Refractive-index-profile determinations by using Lloyd's mirage. <i>Applied Optics</i> , 1994, 33, 1806.	2.1	17
120	Noninterferometric Two-Dimensional Fourier-Transform Spectroscopy of Multilevel Systems. <i>Physical Review Letters</i> , 2008, 100, 227401.	7.8	17
121	Noninterferometric phase determination. <i>Advances in Imaging and Electron Physics</i> , 2001, 118, 85-127.	0.2	16
122	High-resolution phase imaging of phase singularities in the focal region of a lens. <i>Optics Letters</i> , 2002, 27, 345.	3.3	16
123	Thermal and cold neutron phase-contrast radiography. <i>Applied Radiation and Isotopes</i> , 2004, 61, 547-550.	1.5	16
124	Single-shot electron diffraction using a cold atom electron source. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015, 48, 214002.	1.5	16
125	A generalization of Schell's theorem. <i>Optics Communications</i> , 1990, 79, 267-269.	2.1	15
126	Phase measurement of waves that obey nonlinear equations. <i>Optics Letters</i> , 2002, 27, 622.	3.3	15

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127	Phase contrast radiography. II. Imaging of complex objects. Review of Scientific Instruments, 2005, 76, 113704.	1.3	15
128	New opportunities in X-ray tomography. Radiation Physics and Chemistry, 2006, 75, 2067-2071.	2.8	15
129	An in-vacuum x-ray diffraction microscope for use in the 0.7–2.9 keV range. Review of Scientific Instruments, 2012, 83, 033703.	1.3	15
130	Rapid, low dose X-ray diffractive imaging of the malaria parasite Plasmodium falciparum. Ultramicroscopy, 2014, 143, 88-92.	1.9	15
131	Potential and limitations of penumbral imaging. Applied Optics, 1986, 25, 1008.	2.1	14
132	Coded imaging of thermonuclear neutrons (invited). Review of Scientific Instruments, 1988, 59, 1658-1663.	1.3	14
133	Radiometric Measurements and Correlation-induced Spectral Changes. Metrologia, 1992, 29, 319-324.	1.2	14
134	Sub-wavelength characterisation of optical focal structures. Optics Communications, 1998, 145, 9-14.	2.1	14
135	LIGA for lobster: First observation of lobster-eye focusing from lithographically produced optics. Review of Scientific Instruments, 2001, 72, 1843.	1.3	14
136	Coherence transport through imperfect x-ray optical systems. Optics Express, 2003, 11, 2323.	3.4	14
137	Long-lived coherence in carotenoids. New Journal of Physics, 2010, 12, 085015.	2.9	14
138	Experimental characterization of the coherence properties of hard x-ray sources. Optics Express, 2011, 19, 8073.	3.4	14
139	Contrast mechanisms for neutron radiography. Applied Physics Letters, 2001, 78, 1011-1013.	3.3	13
140	Noninterferometric phase imaging of a neutral atomic beam. Journal of the Optical Society of America B: Optical Physics, 2002, 19, 1773.	2.1	13
141	X-ray pulse compression using strained crystals. Optics Communications, 2002, 205, 351-359.	2.1	13
142	Non-iterative solution of the phase retrieval problem using a single diffraction measurement. Optics Express, 2008, 16, 6896.	3.4	13
143	Coherent diffractive imaging: a new statistically regularized amplitude constraint. New Journal of Physics, 2010, 12, 093042.	2.9	13
144	A Direct Approach to In-Plane Stress Separation using Photoelastic Ptychography. Scientific Reports, 2016, 6, 30541.	3.3	13

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145	Focusing and Collimation of X Rays Using Microchannel Plates: An Experimental Investigation. Journal of X-Ray Science and Technology, 1990, 2, 117-126.	1.0	12
146	5. Phase retrieval in lorentz microscopy. Experimental Methods in the Physical Sciences, 2001, 36, 137-XIV.	0.1	12
147	Astigmatic electron diffraction imaging: a novel mode for structure determination. Acta Crystallographica Section A: Foundations and Advances, 2005, 61, 321-324.	0.3	12
148	Nanocrystallography measurements of early stage synthetic malaria pigment. Journal of Applied Crystallography, 2017, 50, 1533-1540.	4.5	11
149	X-ray focusing using cylindrical-channel capillary arrays II Experiments. Applied Optics, 1993, 32, 6333.	2.1	10
150	The detection and sizing of flaws in components from the hot-end of gas turbines using phase-contrast radiography with neutrons: a feasibility study. NDT and E International, 2003, 36, 289-295.	3.7	10
151	Phase imaging with thermal neutrons. Physica B: Condensed Matter, 2006, 385-386, 1395-1401.	2.7	10
152	Curved beam coherent diffractive imaging. Thin Solid Films, 2007, 515, 5553-5556.	1.8	9
153	A coherence approach to phase-contrast microscopy: Theory. Ultramicroscopy, 2008, 108, 937-945.	1.9	9
154	Mapping granular structure in the biological adhesive of Phragmatopoma californica using phase diverse coherent diffractive imaging. Ultramicroscopy, 2011, 111, 1184-1188.	1.9	9
155	The use of a regular array of apertures in penumbral imaging. Optics Communications, 1984, 52, 287-291.	2.1	8
156	Penumbral neutron imaging optimization and simulation. Journal of Applied Physics, 1986, 60, 1289-1294.	2.5	8
157	Incoherent Soft X-ray Holography. Journal of Modern Optics, 1991, 38, 1957-1971.	1.3	8
158	Measurement of an elliptical fiber mode field using near-field microscopy. Journal of Applied Physics, 1995, 77, 5514-5517.	2.5	8
159	Three-dimensional phase imaging with a scanning optical-fiber interferometer. Applied Optics, 1999, 38, 3508.	2.1	8
160	Production issues for high aspect ratio Lobster-eye optics using LIGA. Microsystem Technologies, 2002, 9, 55-60.	2.0	8
161	Optical metrology for analysis of lobster-eye x-ray optics. Applied Optics, 2003, 42, 2422.	2.1	8
162	Ptychographic imaging of NaD1 induced yeast cell death. Biomedical Optics Express, 2019, 10, 4964.	2.9	8

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163	Observation of Stimulated Raman Scattering from 20-psec Laser-Produced Plasmas. <i>Physical Review Letters</i> , 1982, 49, 1943-1946.	7.8	7
164	Three-dimensional optical microscopy: A sampling theorem. <i>Optics Communications</i> , 1988, 69, 15-19.	2.1	7
165	Signal to Noise Ratio in Soft X-ray Holography. <i>Journal of Modern Optics</i> , 1991, 38, 553-563.	1.3	7
166	Confocal profilometer with nanometric vertical resolution. <i>Optics Communications</i> , 1993, 100, 87-92.	2.1	7
167	Evanescent field characterisation of tapered optical fibre sensors in liquid environments using near field scanning optical microscopy and atomic force microscopy. <i>IEE Proceedings: Optoelectronics</i> , 1999, 146, 239-243.	0.8	7
168	Measurement of mass attenuation coefficients in air by application of detector linearity tests. <i>Physical Review A</i> , 2002, 66, .	2.5	7
169	Fresnel coherent diffractive imaging tomography of whole cells in capillaries. <i>New Journal of Physics</i> , 2014, 16, 093012.	2.9	7
170	Coherence induced spectral changes and generalized radiance. <i>Optics Communications</i> , 1992, 91, 13-17.	2.1	6
171	Internal structure of an intact <i>Convallaria majalis</i> pollen grain observed with X-ray Fresnel coherent diffractive imaging. <i>Optics Express</i> , 2012, 20, 26778.	3.4	6
172	Quasi-homogeneous fields: a van Cittert-Zernike theorem and the recovery of correlations from intensity. <i>Optics Communications</i> , 1995, 118, 9-13.	2.1	5
173	Use of a confocal laser scanning ophthalmoscope to detect glaucomatous cupping of the optic disc. <i>Australian and New Zealand Journal of Ophthalmology</i> , 1997, 25, 217-220.	0.4	5
174	Phase-space reconstruction of focused x-ray fields. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2006, 23, 1779.	1.5	5
175	A coherence approach to phase-contrast microscopy II: Experiment. <i>Ultramicroscopy</i> , 2009, 109, 280-286.	1.9	5
176	Ultrafast optical multidimensional spectroscopy without interferometry. <i>Journal of Chemical Physics</i> , 2011, 134, 024504.	3.0	5
177	Observations of phase changes in monoolein during high viscous injection. <i>Journal of Synchrotron Radiation</i> , 2022, 29, 602-614.	2.4	5
178	Maximum entropy analysis of coded images. <i>Optics Communications</i> , 1987, 62, 305-310.	2.1	4
179	Realization of Si _{1-x-y} Ge _x C _y /Si heterostructures by pulsed-laser-induced epitaxy of C+implanted pseudomorphic SiGe films and of a-SiGeC:H films deposited on Si(100). , 1995, 2403, 362.		4
180	X-ray focusing using lobster-eye optics: a comparison of theory with experiment. , 1995, , ,		4

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181	Lobster-eye x-ray optics: a rapid evaluation of the image distribution. <i>Applied Optics</i> , 1998, 37, 632.	2.1	4
182	Modeling of the Lobster-ISS x-ray telescope in orbit. , 2004, 5488, 232.		4
183	Short-Wavelength Free-Electron Lasers. <i>IEEE Photonics Journal</i> , 2010, 2, 221-224.	2.0	4
184	<title>Square capillary x-ray optics</title>. , 1994, 2015, 118.		3
185	<title>Faster, better, cheaper metrology of lobster-eye (square-pore) optics</title>. , 2001, 4145, 209.		3
186	Emulated super-resolution using quantitative phase microscopy. <i>Micron</i> , 2003, 34, 333-338.	2.2	3
187	Phase measurement using x rays (invited). <i>Review of Scientific Instruments</i> , 2004, 75, 3382-3386.	1.3	3
188	Recovering the complete coherence function of a generalized Schell model field. <i>Optics Letters</i> , 2006, 31, 3226.	3.3	3
189	Quality of the reconstruction in x-ray phase contrast tomography. <i>Review of Scientific Instruments</i> , 2006, 77, 063709.	1.3	3
190	A new approach for structure analysis of two-dimensional membrane protein crystals using X-ray powder diffraction data. <i>Protein Science</i> , 2011, 20, 457-464.	7.6	3
191	Measurements of Long-range Electronic Correlations During Femtosecond Diffraction Experiments Performed on Nanocrystals of Buckminsterfullerene. <i>Journal of Visualized Experiments</i> , 2017, , .	0.3	3
192	PHASE-CONTRAST AND HOLOGRAPHIC TOMOGRAPHY. , 2008, , 161-180.		3
193	X-ray focusing using capillary arrays. , 1990, , .		2
194	<title>Imaging of near-field diffraction patterns with subwavelength resolution in the optical region</title>. , 1992, , .		2
195	Confocal laser scanning ophthalmoscope and spherical harmonics used as a possible aid to detect glaucoma. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2000, 17, 477.	1.5	2
196	LIGA fabrication of high-aspect-ratio lobster-eye optics. , 2001, 4592, 406.		2
197	Phase space density measurement of interfering X-rays. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2005, 144-147, 947-951.	1.7	2
198	Bending magnet source: A radiation source for X-ray phase contrast tomography. <i>Radiation Physics and Chemistry</i> , 2006, 75, 2004-2007.	2.8	2

#	ARTICLE	IF	CITATIONS
199	Physical optics basis for the X-ray phase imaging of low contrast samples: a primer. Crystallography Reviews, 2008, 14, 263-290.	1.5	2
200	Caught in a spin. Nature Physics, 2009, 5, 17-18.	16.7	2
201	Interferogram analysis using an accurate fully automatic algorithm: erratum. Applied Optics, 1986, 25, 596.	2.1	1
202	Three-dimensional Imaging Using an Optical Microscope. Journal of Modern Optics, 1990, 37, 1887-1893.	1.3	1
203	Limitations on cell volume determination using three-dimensional optical microscopy. Micron and Microscopica Acta, 1992, 23, 491-500.	0.2	1
204	<title>Square capillary x-ray optics</title>. , 1994, 2279, 257.		1
205	<title>Investigation of optical fields using near-field optical techniques</title>. , 1995, , .		1
206	Fabrication of buried channel waveguides in fused silica by focused MeV ion-beam irradiation. , 1996, , .		1
207	<title>Quantitative phase imaging using hard x rays</title>. , 1997, , .		1
208	<title>Focusing neutrons with a lobster-eye optic</title>. , 1998, , .		1
209	Fabrication of uniformly redundant arrays and Young's slits for coherence measurements in x-rays. , 2002, 4783, 165.		1
210	Complete characterization of a high-numerical-aperture small-core fiber with subwavelength resolution using atomic force microscopy and near-field scanning optical microscopy. Optical Engineering, 2003, 42, 1893.	1.0	1
211	High spatial resolution optical fibre mode profiling. Electronics Letters, 2004, 40, 793.	1.0	1
212	Coherent diffractive imaging using focused beams. , 2005, , .		1
213	Optimising visibility for the neutron radiography of titanium and nickel gas turbine components. Physica B: Condensed Matter, 2006, 385-386, 917-920.	2.7	1
214	Using coherent X-ray ptychography to probe medium-range order. Optics Express, 2013, 21, 28019.	3.4	1
215	High Resolution Wavefront Sensing and Mirror Control for Vision Science by Quantitative Phase Imaging. , 2009, , .		1
216	Optical fluctuations from moving partially coherent sources. Physical Review Letters, 1991, 66, 405-408.	7.8	0

#	ARTICLE	IF	CITATIONS
217	<title>Spatial coherence diagnostic for x-ray lasers</title>. , 1992, 1551, 121.		0
218	Refractive index profile determinations using a Lloyd's mirage. , 1993, , .		0
219	<title>Focusing of synchrotron x-ray radiation with cylindrically curved arrays of reflectors</title>. , 1994, 2279, 305.		0
220	Next generation x-ray all-sky monitor. , 1995, , .		0
221	One-dimensional focusing of synchrotron x-ray radiation with curved arrays of reflectors. Review of Scientific Instruments, 1995, 66, 2197-2199.	1.3	0
222	<title>Square microchannel arrays for focusing neutrons and x rays</title>. , 1998, 3511, 393.		0
223	<title>Near-field probe interaction with an optical fiber taper</title>. , 1998, 3467, 106.		0
224	Fabrication of x-ray spiral masks by laser ablation. , 2002, , .		0
225	Multibeam interference model for predicting 3D photonic crystal structures. , 2004, , .		0
226	Phase retrieval from coherent soft X-ray optics. Journal of Electron Spectroscopy and Related Phenomena, 2005, 144-147, 1171-1173.	1.7	0
227	The ARC Centre of Excellence for Coherent X-ray Science: Physics, chemistry and biology working together.. , 2006, , .		0
228	Iterative phase retrieval of Fresnel diffraction data: Characterization of focused beams. , 2006, , .		0
229	Quantification of reconstruction quality in x-ray phase contrast tomography. , 2006, , .		0
230	Imaging by shape. , 2006, , .		0
231	1SI-06 Biophysical Imaging with Coherent X-rays(1SI Biophysics to be explored using the) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	0.1	0
232	Partial Coherence: a Route to Performing Faster Coherent Diffraction Imaging. Journal of Physics: Conference Series, 2013, 463, 012033.	0.4	0
233	A universal measure for coherence requirements in diffractive imaging. Proceedings of SPIE, 2013, , .	0.8	0
234	Coherent X-ray Imaging. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
235	<title>LIGA for lobster?</title>. , 2001, , .		0
236	Vortices in X-ray Optics. , 2005, , .		0
237	Partial coherence and the influence of overlap and curvature in ptychography. , 2018, , .		0