

Keith A Nugent

List of Publications by Year in descending order

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237
papers

11,369
citations

31902

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101
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239
docs citations

239
times ranked

6325
citing authors

#	ARTICLE	IF	CITATIONS
1	Observations of phase changes in monoolein during high viscous injection. <i>Journal of Synchrotron Radiation</i> , 2022, 29, 602-614.	1.0	5
2	Plasmon-induced enhancement of ptychographic phase microscopy via sub-surface nanoaperture arrays. <i>Nature Photonics</i> , 2021, 15, 222-229.	15.6	22
3	Colorimetric histology using plasmonically active microscope slides. <i>Nature</i> , 2021, 598, 65-71.	13.7	36
4	Ptychographic imaging of NaD1 induced yeast cell death. <i>Biomedical Optics Express</i> , 2019, 10, 4964.	1.5	8
5	Megahertz serial crystallography. <i>Nature Communications</i> , 2018, 9, 4025.	5.8	147
6	Partial coherence and the influence of overlap and curvature in ptychography. , 2018, , .		0
7	Measurements of Long-range Electronic Correlations During Femtosecond Diffraction Experiments Performed on Nanocrystals of Buckminsterfullerene. <i>Journal of Visualized Experiments</i> , 2017, , .	0.2	3
8	Nanocrystallography measurements of early stage synthetic malaria pigment. <i>Journal of Applied Crystallography</i> , 2017, 50, 1533-1540.	1.9	11
9	Coherent X-ray Imaging. , 2016, , .		0
10	A Direct Approach to In-Plane Stress Separation using Photoelastic Ptychography. <i>Scientific Reports</i> , 2016, 6, 30541.	1.6	13
11	X-ray laserâ€“induced electron dynamics observed by femtosecond diffraction from nanocrystals of Buckminsterfullerene. <i>Science Advances</i> , 2016, 2, e1601186.	4.7	20
12	Single-shot electron diffraction using a cold atom electron source. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015, 48, 214002.	0.6	16
13	Fresnel coherent diffractive imaging tomography of whole cells in capillaries. <i>New Journal of Physics</i> , 2014, 16, 093012.	1.2	7
14	Rapid, low dose X-ray diffractive imaging of the malaria parasite <i>Plasmodium falciparum</i> . <i>Ultramicroscopy</i> , 2014, 143, 88-92.	0.8	15
15	Whole-cell phase contrast imaging at the nanoscale using Fresnel Coherent Diffractive Imaging Tomography. <i>Scientific Reports</i> , 2013, 3, 2288.	1.6	37
16	Continuous X-ray diffractive field in protein nanocrystallography. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2013, 69, 108-118.	0.3	18
17	Determining electronic damage to biomolecular structures in x-ray free-electron-laser imaging experiments. <i>Physical Review A</i> , 2013, 87, .	1.0	27
18	Partial Coherence: a Route to Performing Faster Coherent Diffraction Imaging. <i>Journal of Physics: Conference Series</i> , 2013, 463, 012033.	0.3	0

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19	Using coherent X-ray ptychography to probe medium-range order. <i>Optics Express</i> , 2013, 21, 28019.	1.7	1
20	A universal measure for coherence requirements in diffractive imaging. <i>Proceedings of SPIE</i> , 2013, , .	0.8	0
21	An in-vacuum x-ray diffraction microscope for use in the 0.7–2.9 keV range. <i>Review of Scientific Instruments</i> , 2012, 83, 033703.	0.6	15
22	Spatial coherence of electron bunches extracted from an arbitrarily shaped cold atom electron source. <i>Optics Express</i> , 2012, 20, 3967.	1.7	23
23	Simultaneous X-ray fluorescence and ptychographic microscopy of <i>Cyclotella meneghiniana</i> . <i>Optics Express</i> , 2012, 20, 18287.	1.7	75
24	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.	1.7	6
25	Atom-Scale Ptychographic Electron Diffractive Imaging of Boron Nitride Cones. <i>Physical Review Letters</i> , 2012, 108, 073901.	2.9	52
26	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.	0.6	103
27	Diffractive imaging: The limits of partial coherence. <i>Physical Review B</i> , 2012, 86, .	1.1	36
28	Nanoscale Fresnel coherent diffraction imaging tomography using ptychography. <i>Optics Express</i> , 2012, 20, 24678.	1.7	32
29	Lensless imaging using broadband X-ray sources. <i>Nature Photonics</i> , 2011, 5, 420-424.	15.6	129
30	Arbitrarily shaped high-coherence electron bunches from cold atoms. <i>Nature Physics</i> , 2011, 7, 785-788.	6.5	82
31	Experimental characterization of the coherence properties of hard x-ray sources. <i>Optics Express</i> , 2011, 19, 8073.	1.7	14
32	Dynamic sample imaging in coherent diffractive imaging. <i>Optics Letters</i> , 2011, 36, 1954.	1.7	23
33	Three-dimensional electronic spectroscopy of excitons in asymmetric double quantum wells. <i>Journal of Chemical Physics</i> , 2011, 135, 044510.	1.2	38
34	Coherence Properties of Individual Femtosecond Pulses of an X-Ray Free-Electron Laser. <i>Physical Review Letters</i> , 2011, 107, 144801.	2.9	145
35	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	0.0	0
36	Biomolecular imaging and electronic damage using X-ray free-electron lasers. <i>Nature Physics</i> , 2011, 7, 142-146.	6.5	107

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37	Mapping granular structure in the biological adhesive of <i>Phragmatopoma californica</i> using phase diverse coherent diffractive imaging. <i>Ultramicroscopy</i> , 2011, 111, 1184-1188.	0.8	9
38	The measurement of phase through the propagation of intensity: an introduction. <i>Contemporary Physics</i> , 2011, 52, 55-69.	0.8	21
39	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.	3.1	3
40	Phase-Diverse Coherent Diffractive Imaging: High Sensitivity with Low Dose. <i>Physical Review Letters</i> , 2011, 106, 013903.	2.9	49
41	Ultrafast optical multidimensional spectroscopy without interferometry. <i>Journal of Chemical Physics</i> , 2011, 134, 024504.	1.2	5
42	Coherent methods in the X-ray sciences. <i>Advances in Physics</i> , 2010, 59, 1-99.	35.9	433
43	Imaging cellular architecture with X-rays. <i>Current Opinion in Structural Biology</i> , 2010, 20, 623-631.	2.6	158
44	Coherent lensless X-ray imaging. <i>Nature Photonics</i> , 2010, 4, 833-839.	15.6	444
45	Short-Wavelength Free-Electron Lasers. <i>IEEE Photonics Journal</i> , 2010, 2, 221-224.	1.0	4
46	Long-lived coherence in carotenoids. <i>New Journal of Physics</i> , 2010, 12, 085015.	1.2	14
47	Coherent diffractive imaging: a new statistically regularized amplitude constraint. <i>New Journal of Physics</i> , 2010, 12, 093042.	1.2	13
48	Fresnel coherent diffraction tomography. <i>Optics Express</i> , 2010, 18, 11746.	1.7	27
49	Use of a complex constraint in coherent diffractive imaging. <i>Optics Express</i> , 2010, 18, 1981.	1.7	25
50	Fresnel coherent diffractive imaging: treatment and analysis of data. <i>New Journal of Physics</i> , 2010, 12, 035020.	1.2	37
51	Diffractive Imaging Using Partially Coherent X Rays. <i>Physical Review Letters</i> , 2009, 103, 243902.	2.9	157
52	Multiple wavelength diffractive imaging. <i>Physical Review A</i> , 2009, 79, .	1.0	85
53	Diffractive imaging using a polychromatic high-harmonic generation soft-x-ray source. <i>Journal of Applied Physics</i> , 2009, 106, .	1.1	27
54	Caught in a spin. <i>Nature Physics</i> , 2009, 5, 17-18.	6.5	2

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55	A coherence approach to phase-contrast microscopy II: Experiment. Ultramicroscopy, 2009, 109, 280-286.	0.8	5
56	Extracting coherent modes from partially coherent wavefields. Optics Letters, 2009, 34, 2198.	1.7	86
57	Astigmatic phase retrieval: an experimental demonstration. Optics Express, 2009, 17, 11905.	1.7	20
58	Ptychographic Fresnel coherent diffractive imaging. Physical Review A, 2009, 80, .	1.0	57
59	High Resolution Wavefront Sensing and Mirror Control for Vision Science by Quantitative Phase Imaging. , 2009, , .		1
60	High-resolution X-ray imaging of <i>Plasmodium falciparum</i> -infected red blood cells. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2008, 73A, 949-957.	1.1	49
61	A coherence approach to phase-contrast microscopy: Theory. Ultramicroscopy, 2008, 108, 937-945.	0.8	9
62	Keyhole coherent diffractive imaging. Nature Physics, 2008, 4, 394-398.	6.5	289
63	Physical optics basis for the X-ray phase imaging of low contrast samples: a primer. Crystallography Reviews, 2008, 14, 263-290.	0.4	2
64	Phase retrieval in x-ray imaging based on using structured illumination. Physical Review A, 2008, 78, .	1.0	41
65	High-harmonic-generation spectrum reconstruction from Young's double-slits interference pattern using the maximum entropy method. Optics Letters, 2008, 33, 2341.	1.7	21
66	Quantitative phase measurement in coherent diffraction imaging. Optics Express, 2008, 16, 3342.	1.7	21
67	Non-iterative solution of the phase retrieval problem using a single diffraction measurement. Optics Express, 2008, 16, 6896.	1.7	13
68	Fresnel diffractive imaging: Experimental study of coherence and curvature. Physical Review B, 2008, 77, .	1.1	18
69	Quantitative coherent diffractive imaging of an integrated circuit at a spatial resolution of 20 nm. Applied Physics Letters, 2008, 93, .	1.5	65
70	Noninterferometric Two-Dimensional Fourier-Transform Spectroscopy of Multilevel Systems. Physical Review Letters, 2008, 100, 227401.	2.9	17
71	PHASE-CONTRAST AND HOLOGRAPHIC TOMOGRAPHY. , 2008, , 161-180.		3
72	Coherent diffractive imaging and partial coherence. Physical Review B, 2007, 75, .	1.1	113

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73	X-ray noninterferometric phase imaging: a unified picture. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2007, 24, 536.	0.8	56
74	Experimental Measurement of the Four-Dimensional Coherence Function for an Undulator X-Ray Source. Physical Review Letters, 2007, 98, 224801.	2.9	36
75	Curved beam coherent diffractive imaging. Thin Solid Films, 2007, 515, 5553-5556.	0.8	9
76	Fresnel Coherent Diffractive Imaging. Physical Review Letters, 2006, 97, 025506.	2.9	252
77	The ARC Centre of Excellence for Coherent X-ray Science: Physics, chemistry and biology working together.. , 2006, , .		0
78	Iterative phase retrieval of Fresnel diffraction data: Characterization of focused beams. , 2006, , .		0
79	Recovering the complete coherence function of a generalized Schell model field. Optics Letters, 2006, 31, 3226.	1.7	3
80	Phase-space reconstruction of focused x-ray fields. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2006, 23, 1779.	0.8	5
81	Quantification of reconstruction quality in x-ray phase contrast tomography. , 2006, , .		0
82	Imaging by shape. , 2006, , .		0
83	Diffractive imaging of highly focused X-ray fields. Nature Physics, 2006, 2, 101-104.	6.5	198
84	Bending magnet source: A radiation source for X-ray phase contrast tomography. Radiation Physics and Chemistry, 2006, 75, 2004-2007.	1.4	2
85	New opportunities in X-ray tomography. Radiation Physics and Chemistry, 2006, 75, 2067-2071.	1.4	15
86	Optimising visibility for the neutron radiography of titanium and nickel gas turbine components. Physica B: Condensed Matter, 2006, 385-386, 917-920.	1.3	1
87	Phase imaging with thermal neutrons. Physica B: Condensed Matter, 2006, 385-386, 1395-1401.	1.3	10
88	Quality of the reconstruction in x-ray phase contrast tomography. Review of Scientific Instruments, 2006, 77, 063709.	0.6	3
89	Single Cell Volume Measurement by Quantitative Phase Microscopy (QPM): A Case Study of Erythrocyte Morphology. Cellular Physiology and Biochemistry, 2006, 17, 193-200.	1.1	44
90	Coherent diffractive imaging using focused beams. , 2005, , .		1

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91	Phase retrieval from coherent soft X-ray optics. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2005, 144-147, 1171-1173.	0.8	0
92	Phase space density measurement of interfering X-rays. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2005, 144-147, 947-951.	0.8	2
93	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.	1.1	177
94	Astigmatic electron diffraction imaging: a novel mode for structure determination. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2005, 61, 321-324.	0.3	12
95	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
96	Phase contrast radiography. II. Imaging of complex objects. <i>Review of Scientific Instruments</i> , 2005, 76, 113704.	0.6	15
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.	0.8	25
98	Refractive index profiling of axially symmetric optical fibers: a new technique. <i>Optics Express</i> , 2005, 13, 3277.	1.7	66
99	Synchrotron beam coherence: a spatially resolved measurement. <i>Optics Letters</i> , 2005, 30, 204.	1.7	25
100	Iterative image reconstruction algorithms using wave-front intensity and phase variation. <i>Optics Letters</i> , 2005, 30, 1638.	1.7	61
101	X-ray phase contrast tomography with a bending magnet source. <i>Review of Scientific Instruments</i> , 2005, 76, 083707.	0.6	28
102	Vortices in X-ray Optics. , 2005, , .		0
103	High spatial resolution optical fibre mode profiling. <i>Electronics Letters</i> , 2004, 40, 793.	0.5	1
104	Phase measurement using x rays (invited). <i>Review of Scientific Instruments</i> , 2004, 75, 3382-3386.	0.6	3
105	Quantitative phase-amplitude microscopy. III. The effects of noise. <i>Journal of Microscopy</i> , 2004, 214, 51-61.	0.8	182
106	Quantitative phase amplitude microscopy IV: imaging thick specimens. <i>Journal of Microscopy</i> , 2004, 214, 62-69.	0.8	57
107	Thermal and cold neutron phase-contrast radiography. <i>Applied Radiation and Isotopes</i> , 2004, 61, 547-550.	0.7	16
108	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.	0.8	40

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109	X-ray phase imaging: Demonstration of extended conditions with homogeneous objects. Optics Express, 2004, 12, 2960.	1.7	111
110	Phase contrast radiography: Image modeling and optimization. Review of Scientific Instruments, 2004, 75, 5271-5276.	0.6	22
111	Multibeam interference model for predicting 3D photonic crystal structures. , 2004, , .		0
112	Modeling of the Lobster-ISS x-ray telescope in orbit. , 2004, 5488, 232.		4
113	Quantitative X-ray phase tomography with sub-micron resolution. Optics Communications, 2003, 217, 53-58.	1.0	39
114	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.	1.7	10
115	Emulated super-resolution using quantitative phase microscopy. Micron, 2003, 34, 333-338.	1.1	3
116	Optical metrology for analysis of lobster-eye x-ray optics. Applied Optics, 2003, 42, 2422.	2.1	8
117	X-ray vortex beams: A theoretical analysis. Optics Express, 2003, 11, 2315.	1.7	22
118	Coherence transport through imperfect x-ray optical systems. Optics Express, 2003, 11, 2323.	1.7	14
119	Measurement of the Spatial Coherence Function of Undulator Radiation using a Phase Mask. Physical Review Letters, 2003, 90, 074801.	2.9	51
120	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.	0.5	1
121	Unique Phase Recovery for Nonperiodic Objects. Physical Review Letters, 2003, 91, 203902.	2.9	94
122	X-ray tomographic imaging of the complex refractive index. Applied Physics Letters, 2003, 83, 1480-1482.	1.5	34
123	Quantitative Phase Radiography with Polychromatic Neutrons. Physical Review Letters, 2003, 91, 145502.	2.9	43
124	Measurement of mass attenuation coefficients in air by application of detector linearity tests. Physical Review A, 2002, 66, .	1.0	7
125	Fabrication of uniformly redundant arrays and Young's slits for coherence measurements in x-rays. , 2002, 4783, 165.		1
126	Fabrication of x-ray spiral masks by laser ablation. , 2002, , .		0

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127	High-resolution phase imaging of phase singularities in the focal region of a lens. Optics Letters, 2002, 27, 345.	1.7	16
128	Phase measurement of waves that obey nonlinear equations. Optics Letters, 2002, 27, 622.	1.7	15
129	Observation of an x-ray vortex. Optics Letters, 2002, 27, 1752.	1.7	118
130	Refractive-index profiling of optical fibers with axial symmetry by use of quantitative phase microscopy. Optics Letters, 2002, 27, 2061.	1.7	89
131	Precision measurement of the electromagnetic fields in the focal region of a high-numerical-aperture lens using a tapered fiber probe. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2002, 19, 1689.	0.8	29
132	Noninterferometric phase imaging of a neutral atomic beam. Journal of the Optical Society of America B: Optical Physics, 2002, 19, 1773.	0.9	13
133	<title>LOBSTER-ISS: an imaging x-ray all-sky monitor for the International Space Station</title>. , 2002, , .		49
134	Production issues for high aspect ratio Lobster-eye optics using LIGA. Microsystem Technologies, 2002, 9, 55-60.	1.2	8
135	Quantitative phase-amplitude microscopy II: differential interference contrast imaging for biological TEM. Journal of Microscopy, 2002, 206, 204-208.	0.8	25
136	Quantitative phase-amplitude microscopy I: optical microscopy. Journal of Microscopy, 2002, 206, 194-203.	0.8	181
137	X-ray pulse compression using strained crystals. Optics Communications, 2002, 205, 351-359.	1.0	13
138	5. Phase retrieval in lorentz microscopy. Experimental Methods in the Physical Sciences, 2001, 36, 137-XIV.	0.1	12
139	LIGA fabrication of high-aspect-ratio lobster-eye optics. , 2001, 4592, 406.		2
140	Noninterferometric phase determination. Advances in Imaging and Electron Physics, 2001, 118, 85-127.	0.1	16
141	A Phase Odyssey. Physics Today, 2001, 54, 27-32.	0.3	89
142	<title>Faster, better, cheaper metrology of lobster-eye (square-pore) optics</title>. , 2001, 4145, 209.		3
143	Spatial coherence measurement of X-ray undulator radiation. Optics Communications, 2001, 195, 79-84.	1.0	92
144	LIGA for lobster: First observation of lobster-eye focusing from lithographically produced optics. Review of Scientific Instruments, 2001, 72, 1843.	0.6	14

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145	Contrast mechanisms for neutron radiography. <i>Applied Physics Letters</i> , 2001, 78, 1011-1013.	1.5	13
146	Phase retrieval from images in the presence of first-order vortices. <i>Physical Review E</i> , 2001, 63, 037602.	0.8	62
147	<title>LIGA for lobster?</title>. , 2001, , .		0
148	The holographic twin image problem: a deterministic phase solution. <i>Optics Communications</i> , 2000, 183, 7-14.	1.0	22
149	Quantitative phase tomography. <i>Optics Communications</i> , 2000, 175, 329-336.	1.0	133
150	Quantitative phase-sensitive imaging in a transmission electron microscope. <i>Ultramicroscopy</i> , 2000, 83, 67-73.	0.8	180
151	Phase radiography with neutrons. <i>Nature</i> , 2000, 408, 158-159.	13.7	172
152	Matter-wave phase measurement: A noninterferometric approach. <i>Physical Review A</i> , 2000, 61, .	1.0	38
153	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.	0.8	2
154	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.	0.8	43
155	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
156	Fabrication, modeling, and direct evanescent field measurement of tapered optical fiber sensors. <i>Journal of Applied Physics</i> , 1999, 85, 3395-3398.	1.1	35
157	Three-dimensional phase imaging with a scanning optical-fiber interferometer. <i>Applied Optics</i> , 1999, 38, 3508.	2.1	8
158	Sub-wavelength characterisation of optical focal structures. <i>Optics Communications</i> , 1998, 145, 9-14.	1.0	14
159	Lobster-eye x-ray optics: a rapid evaluation of the image distribution. <i>Applied Optics</i> , 1998, 37, 632.	2.1	4
160	Quantitative optical phase microscopy. <i>Optics Letters</i> , 1998, 23, 817.	1.7	500
161	Noninterferometric Phase Imaging with Partially Coherent Light. <i>Physical Review Letters</i> , 1998, 80, 2586-2589.	2.9	698
162	<title>Square microchannel arrays for focusing neutrons and x rays</title>. , 1998, 3511, 393.		0

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163	<title>Near-field probe interaction with an optical fiber taper</title>. , 1998, 3467, 106.		0
164	<title>Focusing neutrons with a lobster-eye optic</title>. , 1998, , .		1
165	Atomic force microscopy for the determination of refractive index profiles of optical fibers and waveguides: A quantitative study. Journal of Applied Physics, 1997, 82, 2730-2734.	1.1	35
166	<title>Quantitative phase imaging using hard x rays</title>. , 1997, , .		1
167	Field characterization of a D-shaped optical fiber using scanning near-field optical microscopy. Journal of Applied Physics, 1997, 82, 510-513.	1.1	27
168	Use of a confocal laser scanning ophthalmoscope to detect glaucomatous cupping of the optic disc. Australian and New Zealand Journal of Ophthalmology, 1997, 25, 217-220.	0.4	5
169	Rapid quantitative phase imaging using the transport of intensity equation. Optics Communications, 1997, 133, 339-346.	1.0	225
170	Quantitative Phase Imaging Using Hard X Rays. Physical Review Letters, 1996, 77, 2961-2964.	2.9	668
171	X-ray focusing with lobster-eye optics: a comparison of theory with experiment. Applied Optics, 1996, 35, 4420.	2.1	38
172	Phase retrieval with the transport-of-intensity equation II Orthogonal series solution for nonuniform illumination. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1996, 13, 1670.	0.8	162
173	Fabrication of buried channel waveguides in fused silica by focused MeV ion-beam irradiation. , 1996, , .		1
174	Protein Crystal Diffraction Patterns Using a Capillary-Focused Synchrotron X-ray Beam. Journal of Synchrotron Radiation, 1996, 3, 289-295.	1.0	21
175	An X-ray all-sky monitor with extraordinary sensitivity. Monthly Notices of the Royal Astronomical Society, 1996, 279, 733-750.	1.6	60
176	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
177	X-ray focusing using lobster-eye optics: a comparison of theory with experiment. , 1995, , .		4
178	<title>Investigation of optical fields using near-field optical techniques</title>. , 1995, , .		1
179	Next generation x-ray all-sky monitor. , 1995, , .		0
180	Focusing of X-rays by Total External Reflection from a Paraboloidally Tapered Glass Capillary. Journal of Synchrotron Radiation, 1995, 2, 296-299.	1.0	47

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181	Quasi-homogeneous fields: a van Cittert-Zernike theorem and the recovery of correlations from intensity. <i>Optics Communications</i> , 1995, 118, 9-13.	1.0	5
182	One-dimensional focusing of synchrotron x-ray radiation with curved arrays of reflectors. <i>Review of Scientific Instruments</i> , 1995, 66, 2197-2199.	0.6	0
183	Measurement of an elliptical fiber mode field using near-field microscopy. <i>Journal of Applied Physics</i> , 1995, 77, 5514-5517.	1.1	8
184	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.	0.8	166
185	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.	0.8	230
186	X-ray optics of tapered capillaries. <i>Applied Optics</i> , 1995, 34, 7263.	2.1	26
187	Characterization of optical fibers using near-field scanning optical microscopy. <i>Journal of Applied Physics</i> , 1994, 75, 2753-2756.	1.1	28
188	Kinoform phase plates for focal plane irradiance profile control. <i>Optics Letters</i> , 1994, 19, 417.	1.7	140
189	Refractive-index-profile determinations by using Lloyd's mirage. <i>Applied Optics</i> , 1994, 33, 1806.	2.1	17
190	<title>Square capillary x-ray optics</title>. , 1994, 2279, 257.		1
191	<title>Focusing of synchrotron x-ray radiation with cylindrically curved arrays of reflectors</title>. , 1994, 2279, 305.		0
192	<title>Square capillary x-ray optics</title>. , 1994, 2015, 118.		3
193	Confocal profilometer with nanometric vertical resolution. <i>Optics Communications</i> , 1993, 100, 87-92.	1.0	7
194	X-ray focusing using cylindrical-channel capillary arrays I Theory. <i>Applied Optics</i> , 1993, 32, 6316.	2.1	29
195	X-ray focusing using cylindrical-channel capillary arrays II Experiments. <i>Applied Optics</i> , 1993, 32, 6333.	2.1	10
196	Refractive index profile determinations using a Lloyd's mirage. , 1993, , .		0
197	Radiometric Measurements and Correlation-induced Spectral Changes. <i>Metrologia</i> , 1992, 29, 319-324.	0.6	14
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