

H N Chapman

List of Publications by Year in descending order

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395
papers

26,686
citations

6613

79
h-index

6996

154
g-index

410
all docs

410
docs citations

410
times ranked

13437
citing authors

#	ARTICLE	IF	CITATIONS
1	Femtosecond X-ray protein nanocrystallography. <i>Nature</i> , 2011, 470, 73-77.	27.8	1,771
2	Femtosecond diffractive imaging with a soft-X-ray free-electron laser. <i>Nature Physics</i> , 2006, 2, 839-843.	16.7	910
3	Single mimivirus particles intercepted and imaged with an X-ray laser. <i>Nature</i> , 2011, 470, 78-81.	27.8	790
4	High-Resolution Protein Structure Determination by Serial Femtosecond Crystallography. <i>Science</i> , 2012, 337, 362-364.	12.6	758
5	X-ray image reconstruction from a diffraction pattern alone. <i>Physical Review B</i> , 2003, 68, .	3.2	698
6	Crystal structure of rhodopsin bound to arrestin by femtosecond X-ray laser. <i>Nature</i> , 2015, 523, 561-567.	27.8	683
7	Phase retrieval from the magnitude of the Fourier transforms of nonperiodic objects. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1998, 15, 1662.	1.5	559
8	High-resolution ab initio three-dimensional x-ray diffraction microscopy. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2006, 23, 1179.	1.5	511
9	Lipidic cubic phase injector facilitates membrane protein serial femtosecond crystallography. <i>Nature Communications</i> , 2014, 5, 3309.	12.8	505
10	Coherent lensless X-ray imaging. <i>Nature Photonics</i> , 2010, 4, 833-839.	31.4	444
11	An assessment of the resolution limitation due to radiation-damage in X-ray diffraction microscopy. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2009, 170, 4-12.	1.7	427
12	Serial Femtosecond Crystallography of G Protein-coupled Receptors. <i>Science</i> , 2013, 342, 1521-1524.	12.6	424
13	Time-resolved serial crystallography captures high-resolution intermediates of photoactive yellow protein. <i>Science</i> , 2014, 346, 1242-1246.	12.6	418
14	<i>CrystFEL</i>: a software suite for snapshot serial crystallography. <i>Journal of Applied Crystallography</i> , 2012, 45, 335-341.	4.5	410
15	Serial time-resolved crystallography of photosystem II using a femtosecond X-ray laser. <i>Nature</i> , 2014, 513, 261-265.	27.8	403
16	Natively Inhibited <i>Trypanosoma brucei</i> Cathepsin B Structure Determined by Using an X-ray Laser. <i>Science</i> , 2013, 339, 227-230.	12.6	393
17	<i>Cheetah</i>: software for high-throughput reduction and analysis of serial femtosecond X-ray diffraction data. <i>Journal of Applied Crystallography</i> , 2014, 47, 1118-1131.	4.5	348
18	Femtosecond structural dynamics drives the trans/cis isomerization in photoactive yellow protein. <i>Science</i> , 2016, 352, 725-729.	12.6	348

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19	Identification of Phosphorylation Codes for Arrestin Recruitment by G Protein-Coupled Receptors. <i>Cell</i> , 2017, 170, 457-469.e13.	28.9	344
20	Imaging Atomic Structure and Dynamics with Ultrafast X-ray Scattering. <i>Science</i> , 2007, 316, 1444-1448.	12.6	342
21	Atomic-Scale Visualization of Inertial Dynamics. <i>Science</i> , 2005, 308, 392-395.	12.6	324
22	Self-terminating diffraction gates femtosecond X-ray nanocrystallography measurements. <i>Nature Photonics</i> , 2012, 6, 35-40.	31.4	292
23	Three-Dimensional Reconstruction of the Giant Mimivirus Particle with an X-Ray Free-Electron Laser. <i>Physical Review Letters</i> , 2015, 114, 098102.	7.8	284
24	Structures of riboswitch RNA reaction states by mix-and-inject XFEL serial crystallography. <i>Nature</i> , 2017, 541, 242-246.	27.8	251
25	Turning solid aluminium transparent by intense soft X-ray photoionization. <i>Nature Physics</i> , 2009, 5, 693-696.	16.7	248
26	X-ray screening identifies active site and allosteric inhibitors of SARS-CoV-2 main protease. <i>Science</i> , 2021, 372, 642-646.	12.6	240
27	Femtosecond time-delay X-ray holography. <i>Nature</i> , 2007, 448, 676-679.	27.8	238
28	Clocking Femtosecond X Rays. <i>Physical Review Letters</i> , 2005, 94, 114801.	7.8	230
29	Single Particle X-ray Diffractive Imaging. <i>Nano Letters</i> , 2008, 8, 310-316.	9.1	229
30	Recent developments in <i>CrystFEL</i> . <i>Journal of Applied Crystallography</i> , 2016, 49, 680-689.	4.5	222
31	Ultrafast single-shot diffraction imaging of nanoscale dynamics. <i>Nature Photonics</i> , 2008, 2, 415-419.	31.4	221
32	Room-temperature macromolecular serial crystallography using synchrotron radiation. <i>IUCr</i> , 2014, 1, 204-212.	2.2	221
33	Time-resolved protein nanocrystallography using an X-ray free-electron laser. <i>Optics Express</i> , 2012, 20, 2706.	3.4	219
34	X-Ray Diffraction from Isolated and Strongly Aligned Gas-Phase Molecules with a Free-Electron Laser. <i>Physical Review Letters</i> , 2014, 112, .	7.8	217
35	Serial crystallography on <i>in vivo</i> grown microcrystals using synchrotron radiation. <i>IUCr</i> , 2014, 1, 87-94.	2.2	204
36	Lipidic cubic phase serial millisecond crystallography using synchrotron radiation. <i>IUCr</i> , 2015, 2, 168-176.	2.2	196

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37	In vivo protein crystallization opens new routes in structural biology. <i>Nature Methods</i> , 2012, 9, 259-262.	19.0	193
38	Femtosecond protein nanocrystallography data analysis methods. <i>Optics Express</i> , 2010, 18, 5713.	3.4	192
39	Visualizing a protein quake with time-resolved X-ray scattering at a free-electron laser. <i>Nature Methods</i> , 2014, 11, 923-926.	19.0	173
40	Fractal morphology, imaging and mass spectrometry of single aerosol particles in flight. <i>Nature</i> , 2012, 486, 513-517.	27.8	170
41	Massively parallel X-ray holography. <i>Nature Photonics</i> , 2008, 2, 560-563.	31.4	168
42	Diffraction before destruction. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20130313.	4.0	168
43	X-ray lasers for structural and dynamic biology. <i>Reports on Progress in Physics</i> , 2012, 75, 102601.	20.1	163
44	Radiation damage in protein serial femtosecond crystallography using an x-ray free-electron laser. <i>Physical Review B</i> , 2011, 84, 214111.	3.2	156
45	Molecular Imaging Using X-Ray Free-Electron Lasers. <i>Annual Review of Physical Chemistry</i> , 2013, 64, 415-435.	10.8	156
46	High-throughput imaging of heterogeneous cell organelles with an X-ray laser. <i>Nature Photonics</i> , 2014, 8, 943-949.	31.4	156
47	Imaging single cells in a beam of live cyanobacteria with an X-ray laser. <i>Nature Communications</i> , 2015, 6, 5704.	12.8	156
48	Structural basis for bifunctional peptide recognition at human μ -opioid receptor. <i>Nature Structural and Molecular Biology</i> , 2015, 22, 265-268.	8.2	151
49	Megahertz serial crystallography. <i>Nature Communications</i> , 2018, 9, 4025.	12.8	147
50	Lipidic phase membrane protein serial femtosecond crystallography. <i>Nature Methods</i> , 2012, 9, 263-265.	19.0	135
51	Structure-factor analysis of femtosecond microdiffraction patterns from protein nanocrystals. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2011, 67, 131-140.	0.3	128
52	Macromolecular diffractive imaging using imperfect crystals. <i>Nature</i> , 2016, 530, 202-206.	27.8	123
53	Crystallographic data processing for free-electron laser sources. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2013, 69, 1231-1240.	2.5	122
54	Phase-retrieval X-ray microscopy by Wigner-distribution deconvolution. <i>Ultramicroscopy</i> , 1996, 66, 153-172.	1.9	121

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55	X-Ray Free-Electron Lasers for the Structure and Dynamics of Macromolecules. Annual Review of Biochemistry, 2019, 88, 35-58.	11.1	120
56	X-ray imaging beyond the limits. Nature Materials, 2009, 8, 299-301.	27.5	119
57	Enzyme intermediates captured "on the fly" by mix-and-inject serial crystallography. BMC Biology, 2018, 16, 59.	3.8	117
58	X-ray focusing with efficient high-NA multilayer Laue lenses. Light: Science and Applications, 2018, 7, 17162-17162.	16.6	114
59	Indications of radiation damage in ferredoxin microcrystals using high-intensity X-FEL beams. Journal of Synchrotron Radiation, 2015, 22, 225-238.	2.4	110
60	Time-resolved serial femtosecond crystallography at the European XFEL. Nature Methods, 2020, 17, 73-78.	19.0	110
61	Multiwavelength Anomalous Diffraction at High X-Ray Intensity. Physical Review Letters, 2011, 107, 218102.	7.8	107
62	Coherent X-ray diffractive imaging: applications and limitations. Optics Express, 2003, 11, 2344.	3.4	106
63	Three-Dimensional Coherent X-Ray Diffraction Imaging of a Ceramic Nanofoam: Determination of Structural Deformation Mechanisms. Physical Review Letters, 2008, 101, 055501.	7.8	106
64	Ultracompact 3D microfluidics for time-resolved structural biology. Nature Communications, 2020, 11, 657.	12.8	106
65	Encapsulation and Diffraction-Pattern-Correction Methods to Reduce the Effect of Damage in X-Ray Diffraction Imaging of Single Biological Molecules. Physical Review Letters, 2007, 98, 198302.	7.8	101
66	Pink-beam serial crystallography. Nature Communications, 2017, 8, 1281.	12.8	101
67	Mix-and-diffuse serial synchrotron crystallography. IUCr, 2017, 4, 769-777.	2.2	98
68	X-ray focusing using square channel capillary arrays. Review of Scientific Instruments, 1991, 62, 1542-1561.	1.3	96
69	Characteristics of focused soft X-ray free-electron laser beam determined by ablation of organic molecular solids. Optics Express, 2007, 15, 6036.	3.4	96
70	Unique Phase Recovery for Nonperiodic Objects. Physical Review Letters, 2003, 91, 203902.	7.8	94
71	Cryptotomography: Reconstructing 3D Fourier Intensities from Randomly Oriented Single-Shot Diffraction Patterns. Physical Review Letters, 2010, 104, 225501.	7.8	94
72	Structural enzymology using X-ray free electron lasers. Structural Dynamics, 2017, 4, 044003.	2.3	92

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73	X-ray microscopy. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 1995, 51, 237-252.	0.3	91
74	Unsupervised classification of single-particle X-ray diffraction snapshots by spectral clustering. <i>Optics Express</i> , 2011, 19, 16542.	3.4	91
75	Double-flow focused liquid injector for efficient serial femtosecond crystallography. <i>Scientific Reports</i> , 2017, 7, 44628.	3.3	90
76	High numerical aperture multilayer Laue lenses. <i>Scientific Reports</i> , 2015, 5, 9892.	3.3	89
77	<i>OnDA</i>: online data analysis and feedback for serial X-ray imaging. <i>Journal of Applied Crystallography</i> , 2016, 49, 1073-1080.	4.5	89
78	Experiments at FLASH. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009, 601, 108-122.	1.6	88
79	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
80	Phasing of coherent femtosecond X-ray diffraction from size-varying nanocrystals. <i>Optics Express</i> , 2011, 19, 2866.	3.4	82
81	AXSIS: Exploring the frontiers in attosecond X-ray science, imaging and spectroscopy. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016, 829, 24-29.	1.6	80
82	<i>XGANDALF</i> – extended gradient descent algorithm for lattice finding. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2019, 75, 694-704.	0.1	80
83	Invited Article: Coherent imaging using seeded free-electron laser pulses with variable polarization: First results and research opportunities. <i>Review of Scientific Instruments</i> , 2013, 84, 051301.	1.3	77
84	Single-particle structure determination by correlations of snapshot X-ray diffraction patterns. <i>Nature Communications</i> , 2012, 3, 1276.	12.8	76
85	Structure of a photosynthetic reaction centre determined by serial femtosecond crystallography. <i>Nature Communications</i> , 2013, 4, 2911.	12.8	74
86	Noise-robust coherent diffractive imaging with a single diffraction pattern. <i>Optics Express</i> , 2012, 20, 16650.	3.4	73
87	Three-dimensional-printed gas dynamic virtual nozzles for x-ray laser sample delivery. <i>Optics Express</i> , 2016, 24, 11515.	3.4	72
88	Subnanometer-Scale Measurements of the Interaction of Ultrafast Soft X-Ray Free-Electron-Laser Pulses with Matter. <i>Physical Review Letters</i> , 2007, 98, 145502.	7.8	71
89	Lipidic cubic phase injector is a viable crystal delivery system for time-resolved serial crystallography. <i>Nature Communications</i> , 2016, 7, 12314.	12.8	71
90	State- and conformer-selected beams of aligned and oriented molecules for ultrafast diffraction studies. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 2076-2087.	2.8	69

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91	Accurate determination of segmented X-ray detector geometry. <i>Optics Express</i> , 2015, 23, 28459.	3.4	69
92	On the Extendibility of X-ray Crystallography to Noncrystals. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 1998, 54, 232-239.	0.3	68
93	Design and performance of capping layers for extreme-ultraviolet multilayer mirrors. <i>Applied Optics</i> , 2003, 42, 5750.	2.1	66
94	Microfluidic liquid jet system with compatibility for atmospheric and high-vacuum conditions. <i>Lab on A Chip</i> , 2014, 14, 1733-1745.	6.0	66
95	Atomic structure of granulin determined from native nanocrystalline granulovirus using an X-ray free-electron laser. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 2247-2252.	7.1	65
96	Taking X-Ray Diffraction to the Limit: Macromolecular Structures from Femtosecond X-Ray Pulses and Diffraction Microscopy of Cells with Synchrotron Radiation. <i>Annual Review of Biophysics and Biomolecular Structure</i> , 2004, 33, 157-176.	18.3	64
97	Coherent diffraction of single Rice Dwarf virus particles using hard X-rays at the Linac Coherent Light Source. <i>Scientific Data</i> , 2016, 3, 160064.	5.3	64
98	Droplet streams for serial crystallography of proteins. <i>Experiments in Fluids</i> , 2008, 44, 675-689.	2.4	63
99	Single-particle imaging without symmetry constraints at an X-ray free-electron laser. <i>IUCr</i> , 2018, 5, 727-736.	2.2	63
100	Electronic Structure of an XUV Photogenerated Solid-Density Aluminum Plasma. <i>Physical Review Letters</i> , 2010, 104, 225001.	7.8	62
101	On the Feasibility of Nanocrystal Imaging Using Intense and Ultrashort X-ray Pulses. <i>ACS Nano</i> , 2011, 5, 139-146.	14.6	61
102	X-ray-Based Techniques to Study the Nano-Bio Interface. <i>ACS Nano</i> , 2021, 15, 3754-3807.	14.6	60
103	Beyond small-angle x-ray scattering: Exploiting angular correlations. <i>Physical Review B</i> , 2010, 81, .	3.2	59
104	Sacrificial Tamper Slows Down Sample Explosion in FLASH Diffraction Experiments. <i>Physical Review Letters</i> , 2010, 104, 064801.	7.8	59
105	Transferring the entatic-state principle to copper photochemistry. <i>Nature Chemistry</i> , 2018, 10, 355-362.	13.6	59
106	Femtosecond X-ray Fourier holography imaging of free-flying nanoparticles. <i>Nature Photonics</i> , 2018, 12, 150-153.	31.4	58
107	Megahertz single-particle imaging at the European XFEL. <i>Communications Physics</i> , 2020, 3, .	5.3	58
108	A characterisation of dark-field imaging of colloidal gold labels in a scanning transmission X-ray microscope. <i>Ultramicroscopy</i> , 1996, 62, 191-213.	1.9	57

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109	Observation of Structural Anisotropy and the Onset of Liquidlike Motion During the Nonthermal Melting of InSb. <i>Physical Review Letters</i> , 2005, 95, 125701.	7.8	56
110	Femtosecond free-electron laser x-ray diffraction data sets for algorithm development. <i>Optics Express</i> , 2012, 20, 4149.	3.4	56
111	Imaging molecular structure through femtosecond photoelectron diffraction on aligned and oriented gas-phase molecules. <i>Faraday Discussions</i> , 2014, 171, 57-80.	3.2	55
112	Coherent soft X-ray diffraction imaging of coliphage PR772 at the Linac coherent light source. <i>Scientific Data</i> , 2017, 4, 170079.	5.3	54
113	Pulse requirements for x-ray diffraction imaging of single biological molecules. <i>Physical Review E</i> , 2005, 71, 061919.	2.1	53
114	Rapid sample delivery for megahertz serial crystallography at X-ray FELs. <i>IUCrJ</i> , 2018, 5, 574-584.	2.2	52
115	X-ray laser diffraction for structure determination of the rhodopsin-arrestin complex. <i>Scientific Data</i> , 2016, 3, 160021.	5.3	51
116	Limitations of coherent diffractive imaging of single objects due to their damage by intense x-ray radiation. <i>New Journal of Physics</i> , 2012, 14, 115015.	2.9	48
117	3D diffractive imaging of nanoparticle ensembles using an x-ray laser. <i>Optica</i> , 2021, 8, 15.	9.3	48
118	Applications of a CCD detector in scanning transmission x-ray microscope. <i>Review of Scientific Instruments</i> , 1995, 66, 1332-1334.	1.3	47
119	EUV optical design for a 100-nm CD imaging system. , 1998, 3331, 2.		47
120	Membrane protein megahertz crystallography at the European XFEL. <i>Nature Communications</i> , 2019, 10, 5021.	12.8	47
121	Ceramic micro-injection molded nozzles for serial femtosecond crystallography sample delivery. <i>Review of Scientific Instruments</i> , 2015, 86, 125104.	1.3	46
122	Femtosecond x-ray photoelectron diffraction on gas-phase dibromobenzene molecules. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014, 47, 124035.	1.5	46
123	Simulations of radiation damage in biomolecular nanocrystals induced by femtosecond X-ray pulses. <i>Journal of Modern Optics</i> , 2011, 58, 1486-1497.	1.3	45
124	Automated identification and classification of single particle serial femtosecond X-ray diffraction data. <i>Optics Express</i> , 2014, 22, 2497.	3.4	45
125	Soft x-ray free electron laser microfocus for exploring matter under extreme conditions. <i>Optics Express</i> , 2009, 17, 18271.	3.4	44
126	Observation of substrate diffusion and ligand binding in enzyme crystals using high-repetition-rate mix-and-inject serial crystallography. <i>IUCrJ</i> , 2021, 8, 878-895.	2.2	44

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127	Powder diffraction from a continuous microjet of submicrometer protein crystals. <i>Journal of Synchrotron Radiation</i> , 2008, 15, 593-599.	2.4	43
128	Structure of a single particle from scattering by many particles randomly oriented about an axis: toward structure solution without crystallization?. <i>New Journal of Physics</i> , 2010, 12, 035014.	2.9	43
129	First lithographic results from the extreme ultraviolet Engineering Test Stand. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2001, 19, 2389.	1.6	42
130	Dose, exposure time and resolution in serial X-ray crystallography. <i>Journal of Synchrotron Radiation</i> , 2008, 15, 62-73.	2.4	42
131	Femtosecond diffractive imaging of biological cells. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2010, 43, 194015.	1.5	41
132	Fabrication of wedged multilayer Laue lenses. <i>Optical Materials Express</i> , 2015, 5, 748.	3.0	41
133	On-chip crystallization for serial crystallography experiments and on-chip ligand-binding studies. <i>IUCr</i> , 2019, 6, 714-728.	2.2	41
134	Megahertz x-ray microscopy at x-ray free-electron laser and synchrotron sources. <i>Optica</i> , 2019, 6, 1106.	9.3	41
135	Rigorous method for compensation selection and alignment of microlithographic optical systems. , 1998, 3331, 102.		40
136	Aerosol Imaging with a Soft X-Ray Free Electron Laser. <i>Aerosol Science and Technology</i> , 2010, 44, i-vi.	3.1	40
137	Considerations for three-dimensional image reconstruction from experimental data in coherent diffractive imaging. <i>IUCr</i> , 2018, 5, 531-541.	2.2	40
138	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
139	Femtosecond dark-field imaging with an X-ray free electron laser. <i>Optics Express</i> , 2012, 20, 13501.	3.4	38
140	Sub-70 nm extreme ultraviolet lithography at the Advanced Light Source static microfield exposure station using the engineering test stand set-2 optic. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2002, 20, 2829.	1.6	37
141	Optically Induced Forces Imposed in an Optical Funnel on a Stream of Particles in Air or Vacuum. <i>Physical Review Applied</i> , 2015, 4, .	3.8	37
142	CAMP@FLASH: an end-station for imaging, electron- and ion-spectroscopy, and pump-probe experiments at the FLASH free-electron laser. <i>Journal of Synchrotron Radiation</i> , 2018, 25, 1529-1540.	2.4	37
143	High-efficiency diffractive x-ray optics from sectioned multilayers. <i>Applied Physics Letters</i> , 2005, 86, 151109.	3.3	36
144	Soft-x-ray free-electron-laser interaction with materials. <i>Physical Review E</i> , 2007, 76, 046403.	2.1	35

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145	Hollow Bessel-like beam as an optical guide for a stream of microscopic particles. <i>Optics Express</i> , 2013, 21, 30492.	3.4	35
146	1 kHz fixed-target serial crystallography using a multilayer monochromator and an integrating pixel detector. <i>IUCr</i> , 2019, 6, 927-937.	2.2	35
147	Camera for coherent diffractive imaging and holography with a soft-x-ray free-electron laser. <i>Applied Optics</i> , 2008, 47, 1673.	2.1	34
148	Femtosecond X-ray coherent diffraction of aligned amyloid fibrils on low background graphene. <i>Nature Communications</i> , 2018, 9, 1836.	12.8	34
149	<title>System integration and performance of the EUV engineering test stand</title>. , 2001, , .		33
150	Use of extended and prepared reference objects in experimental Fourier transform x-ray holography. <i>Applied Physics Letters</i> , 2004, 85, 2454-2456.	3.3	32
151	Heterogeneous clusters as a model system for the study of ionization dynamics within tampered samples. <i>Physical Review A</i> , 2011, 84, .	2.5	32
152	Low-signal limit of X-ray single particle diffractive imaging. <i>Optics Express</i> , 2019, 27, 37816.	3.4	32
153	High-efficiency x-ray gratings with asymmetric-cut multilayers. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2012, 29, 216.	1.5	31
154	<i>Structural Dynamics</i> , 2015, 2, 041709.	2.3	31
155	Incoherent Diffractive Imaging via Intensity Correlations of Hard X Rays. <i>Physical Review Letters</i> , 2017, 119, 053401.	7.8	31
156	Tomographic Femtosecond X-Ray Diffractive Imaging. <i>Physical Review Letters</i> , 2008, 101, 115507.	7.8	30
157	Ternary structure reveals mechanism of a membrane diacylglycerol kinase. <i>Nature Communications</i> , 2015, 6, 10140.	12.8	30
158	Wavefront sensing at X-ray free-electron lasers. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 1115-1126.	2.4	30
159	X-ray focusing using cylindrical-channel capillary arrays I Theory. <i>Applied Optics</i> , 1993, 32, 6316.	2.1	29
160	Toward atomic resolution diffractive imaging of isolated molecules with X-ray free-electron lasers. <i>Faraday Discussions</i> , 2014, 171, 393-418.	3.2	29
161	Phasing coherently illuminated nanocrystals bounded by partial unit cells. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20130331.	4.0	29
162	Mapping the continuous reciprocal space intensity distribution of X-ray serial crystallography. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20130333.	4.0	29

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163	Ultrafast self-gating Bragg diffraction of exploding nanocrystals in an X-ray laser. Optics Express, 2015, 23, 1213.	3.4	29
164	Hard x-ray multi-projection imaging for single-shot approaches. Optica, 2018, 5, 1521.	9.3	29
165	<title>EUV engineering test stand</title> . , 2000, , .		28
166	Design and performance of capping layers for EUV multilayer mirrors. , 2003, 5037, 236.		28
167	Multipurpose modular experimental station for the DiProl beamline of Fermi@Elettra free electron laser. Review of Scientific Instruments, 2011, 82, 043711.	1.3	28
168	Sensing the wavefront of x-ray free-electron lasers using aerosol spheres. Optics Express, 2013, 21, 12385.	3.4	28
169	The birth of a new field <sup />. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130309.	4.0	28
170	Strongly aligned gas-phase molecules at free-electron lasers. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 204002.	1.5	28
171	Ultrafast nonthermal heating of water initiated by an X-ray Free-Electron Laser. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 5652-5657.	7.1	28
172	<i>pinkIndexer</i> â€“ a universal indexer for pink-beam X-ray and electron diffraction snapshots. Acta Crystallographica Section A: Foundations and Advances, 2020, 76, 121-131.	0.1	28
173	Towards RIP using free-electron laser SFX data. Journal of Synchrotron Radiation, 2015, 22, 249-255.	2.4	27
174	FELIX: an algorithm for indexing multiple crystallites in X-ray free-electron laser snapshot diffraction images. Journal of Applied Crystallography, 2017, 50, 1075-1083.	4.5	27
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