

Haruhiko Ohashi

List of Publications by Year in descending order

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46
papers

3,592
citations

361413

20
h-index

276875

41
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47
all docs

47
docs citations

47
times ranked

3262
citing authors

#	ARTICLE	IF	CITATIONS
1	A compact X-ray free-electron laser emitting in the sub-Ångström region. Nature Photonics, 2012, 6, 540-544.	31.4	1,542
2	A compact free-electron laser for generating coherent radiation in the extreme ultraviolet region. Nature Photonics, 2008, 2, 555-559.	31.4	414
3	Focusing of X-ray free-electron laser pulses with reflective optics. Nature Photonics, 2013, 7, 43-47.	31.4	234
4	Beamline, experimental stations and photon beam diagnostics for the hard x-ray free electron laser of SACLA. New Journal of Physics, 2013, 15, 083035.	2.9	230
5	X-ray two-photon absorption competing against single and sequential multiphoton processes. Nature Photonics, 2014, 8, 313-316.	31.4	164
6	Atomic inner-shell laser at 1.5-Ångström wavelength pumped by an X-ray free-electron laser. Nature, 2015, 524, 446-449.	27.8	133
7	Generation of 1020-attosecond hard X-ray laser pulses with two-stage reflective focusing system. Nature Communications, 2014, 5, 3539.	12.8	124
8	A beam branching method for timing and spectral characterization of hard X-ray free-electron lasers. Structural Dynamics, 2016, 3, 034301.	2.3	87
9	A soft X-ray free-electron laser beamline at SACLA: the light source, photon beamline and experimental station. Journal of Synchrotron Radiation, 2018, 25, 282-288.	2.4	78
10	Nanofocusing of X-ray free-electron laser using wavefront-corrected multilayer focusing mirrors. Scientific Reports, 2018, 8, 17440.	3.3	43
11	Fabrication of a precise ellipsoidal mirror for soft X-ray nanofocusing. Review of Scientific Instruments, 2018, 89, 093104.	1.3	42
12	Fluence thresholds for grazing incidence hard x-ray mirrors. Applied Physics Letters, 2015, 106, .	3.3	41
13	Dynamic fracture of tantalum under extreme tensile stress. Science Advances, 2017, 3, e1602705.	10.3	41
14	Investigation of ablation thresholds of optical materials using 1-Åμm-focusing beam at hard X-ray free electron laser. Optics Express, 2013, 21, 15382.	3.4	34
15	Upgrade of beamline BL25SU for soft x-ray imaging and spectroscopy of solid using nano- and micro-focused beams at SPring-8. AIP Conference Proceedings, 2016, , .	0.4	33
16	Measurement of the X-ray Spectrum of a Free Electron Laser with a Wide-Range High-Resolution Single-Shot Spectrometer. Applied Sciences (Switzerland), 2017, 7, 584.	2.5	31
17	Element Selectivity in Second-Harmonic Generation of GaFeO_3 by a Soft-X-Ray Free-Electron Laser. Physical Review Letters, 2018, 120, 223902.	7.8	29
18	Damage threshold of coating materials on x-ray mirror for x-ray free electron laser. Review of Scientific Instruments, 2016, 87, 051801.	1.3	25

#	ARTICLE	IF	CITATIONS
19	Intense sub-micrometre focusing of soft X-ray free-electron laser beyond 10^{16} W/cm ² with an ellipsoidal mirror. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 1406-1411.	2.4	23
20	Ultra-fast switching of light by absorption saturation in vacuum ultra-violet region. <i>Optics Express</i> , 2009, 17, 23443.	3.4	22
21	Soft x-ray nanobeam formed by an ellipsoidal mirror. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	19
22	Stable sub-micrometre high-flux probe for soft X-ray ARPES using a monolithic Wolter mirror. <i>Journal of Synchrotron Radiation</i> , 2020, 27, 1103-1107.	2.4	17
23	Ellipsoidal mirror for two-dimensional 100-nm focusing in hard X-ray region. <i>Scientific Reports</i> , 2017, 7, 16408.	3.3	16
24	Development of an Experimental Platform for Combinative Use of an XFEL and a High-Power Nanosecond Laser. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2224.	2.5	16
25	X-ray induced damage of B4C-coated bilayer materials under various irradiation conditions. <i>Scientific Reports</i> , 2019, 9, 2029.	3.3	15
26	Damage threshold of platinum/carbon multilayers under hard X-ray free-electron laser irradiation. <i>Optics Express</i> , 2015, 23, 29032.	3.4	14
27	Systematic-error-free wavefront measurement using an X-ray single-grating interferometer. <i>Review of Scientific Instruments</i> , 2018, 89, 043106.	1.3	13
28	Full-field microscope with twin Wolter mirrors for soft X-ray free-electron lasers. <i>Optics Express</i> , 2019, 27, 33889.	3.4	12
29	Arrival timing diagnostics at a soft X-ray free-electron laser beamline of SACLA BL1. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 887-890.	2.4	11
30	A highly efficient nanofocusing system for soft x rays. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	10
31	Soft X-ray ARPES for three-dimensional crystals in the micrometre region. <i>Journal of Synchrotron Radiation</i> , 2021, 28, 1631-1638.	2.4	10
32	Fabrication of soft x-ray monolithic Wolter mirror based on surface scanning measurement using touch probe. <i>Review of Scientific Instruments</i> , 2022, 93, .	1.3	9
33	Development of new diagnostics based on LiF detector for pump-probe experiments. <i>Matter and Radiation at Extremes</i> , 2018, 3, 197-206.	3.9	8
34	Generation of an X-ray nanobeam of a free-electron laser using reflective optics with speckle interferometry. <i>Journal of Synchrotron Radiation</i> , 2020, 27, 883-889.	2.4	8
35	Damage threshold investigation using grazing incidence irradiation by hard x-ray free electron laser. <i>Proceedings of SPIE</i> , 2013, , .	0.8	7
36	Damage study of optical substrates using 1- μ m-focusing beam of hard X-ray free-electron laser. <i>Journal of Physics: Conference Series</i> , 2013, 463, 012043.	0.4	7

#	ARTICLE	IF	CITATIONS
37	Double-multilayer monochromators for high-energy and large-field X-ray imaging applications with intense pink beams at SPring-8 BL20B2. Journal of Synchrotron Radiation, 2022, 29, 1265-1272.	2.4	7
38	Development of contamination-free x-ray optics for next-generation light sources. AIP Conference Proceedings, 2016, , .	0.4	5
39	Results from single shot grazing incidence hard x-ray damage measurements conducted at the SACLA FEL. , 2013, , .		4
40	X-ray ring-focusing mirror. Applied Physics Letters, 2019, 114, 131901.	3.3	4
41	An optical design of twin Wolter mirrors for focusing and imaging experiments with soft X-ray free electron lasers. , 2019, , .		4
42	Effective protocol for realizing contamination-free X-ray reflective optics. Review of Scientific Instruments, 2019, 90, 021704.	1.3	2
43	Development of figure correction system for axisymmetric x-ray mirrors. , 2021, , .		2
44	Development of two-stage soft x-ray nanofocusing system at BL25SU of SPring-8. , 2020, , .		1
45	Current status of development of electroforming process for high precision soft x-ray mirrors. , 2021, , .		0
46	Probing the spatial coherence of wide X-ray beams with Fresnel mirrors at BL25SU of SPring-8. Journal of Synchrotron Radiation, 2019, 26, 756-761.	2.4	0