

Jangwoo Kim

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,440
citations

567281

15
h-index

454955

30
g-index

32
all docs

32
docs citations

32
times ranked

1721
citing authors

#	ARTICLE	IF	CITATIONS
1	Hard X-ray free-electron laser with femtosecond-scale timing jitter. <i>Nature Photonics</i> , 2017, 11, 708-713.	31.4	389
2	Focusing of X-ray free-electron laser pulses with reflective optics. <i>Nature Photonics</i> , 2013, 7, 43-47.	31.4	234
3	Generation of 10^{20} W/cm ² hard X-ray laser pulses with two-stage reflective focusing system. <i>Nature Communications</i> , 2014, 5, 3539.	12.8	124
4	Single-nanometer focusing of hard x-rays by Kirkpatrick-Baez mirrors. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 394206.	1.8	117
5	Construction and Commissioning of PAL-XFEL Facility. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 479.	2.5	108
6	Nylon mesh-based sample holder for fixed-target serial femtosecond crystallography. <i>Scientific Reports</i> , 2019, 9, 6971.	3.3	51
7	High-brightness self-seeded X-ray free-electron laser covering the 3.5 keV to 14.6 keV range. <i>Nature Photonics</i> , 2021, 15, 435-441.	31.4	47
8	Focusing X-ray free-electron laser pulses using Kirkpatrick-Baez mirrors at the NCI hutch of the PAL-XFEL. <i>Journal of Synchrotron Radiation</i> , 2018, 25, 289-292.	2.4	44
9	Nanofocusing of X-ray free-electron laser using wavefront-corrected multilayer focusing mirrors. <i>Scientific Reports</i> , 2018, 8, 17440.	3.3	43
10	Polyacrylamide injection matrix for serial femtosecond crystallography. <i>Scientific Reports</i> , 2019, 9, 2525.	3.3	37
11	Investigation of ablation thresholds of optical materials using 1- μ m-focusing beam at hard X-ray free electron laser. <i>Optics Express</i> , 2013, 21, 15382.	3.4	34
12	Measurement of the X-ray Spectrum of a Free Electron Laser with a Wide-Range High-Resolution Single-Shot Spectrometer. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 584.	2.5	31
13	Damage threshold of coating materials on x-ray mirror for x-ray free electron laser. <i>Review of Scientific Instruments</i> , 2016, 87, 051801.	1.3	25
14	Application of a high-throughput microcrystal delivery system to serial femtosecond crystallography. <i>Journal of Applied Crystallography</i> , 2020, 53, 477-485.	4.5	25
15	Hard X-ray self-seeding commissioning at PAL-XFEL. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 1101-1109.	2.4	17
16	Coherence and pulse duration characterization of the PAL-XFEL in the hard X-ray regime. <i>Scientific Reports</i> , 2019, 9, 3300.	3.3	15
17	Damage threshold of platinum/carbon multilayers under hard X-ray free-electron laser irradiation. <i>Optics Express</i> , 2015, 23, 29032.	3.4	14
18	BL-11C Micro-MX: a high-flux microfocuss macromolecular-crystallography beamline for micrometre-sized protein crystals at Pohang Light Source II. <i>Journal of Synchrotron Radiation</i> , 2021, 28, 1210-1215.	2.4	11

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19	Room temperature XFEL crystallography reveals asymmetry in the vicinity of the two phylloquinones in photosystem I. Scientific Reports, 2021, 11, 21787.	3.3	11
20	A Precision Grazing-incidence Angle Error Measurement of a Hard X-ray Condenser Mirror Using Single-grating Interferometry. Synchrotron Radiation News, 2013, 26, 13-16.	0.8	10
21	Improved reflectivity of platinum/carbon multilayers for X-ray mirrors by carbon doping into platinum layer. Current Applied Physics, 2012, 12, S20-S23.	2.4	8
22	Damage threshold investigation using grazing incidence irradiation by hard x-ray free electron laser. Proceedings of SPIE, 2013, , .	0.8	7
23	Damage study of optical substrates using 1- μ m-focusing beam of hard X-ray free-electron laser. Journal of Physics: Conference Series, 2013, 463, 012043.	0.4	7
24	Development of a one-dimensional Wolter mirror for achromatic full-field x-ray microscopy. Proceedings of SPIE, 2011, , .	0.8	5
25	Impact damage and residual tensile strength of a CF-SMC composite. Advanced Composite Materials, 2013, 22, 29-47.	1.9	5
26	Damage to inorganic materials illuminated by focused beam of x-ray free-electron laser radiation. Proceedings of SPIE, 2015, , .	0.8	5
27	Development of a one-dimensional differential deposition system for X-ray mirror figure correction. Precision Engineering, 2021, 71, 1-6.	3.4	5
28	Micro-focusing of hard x-ray free electron laser radiation using Kirkpatrick-Baez mirror system. Journal of Physics: Conference Series, 2013, 425, 052022.	0.4	4
29	Damage characteristics of platinum/carbon multilayers under x-ray free-electron laser irradiation. Proceedings of SPIE, 2013, , .	0.8	3
30	Development of a Gas Monitor Detector for the PAL-XFEL. Journal of the Korean Physical Society, 2020, 76, 874-880.	0.7	3