

Intae Eom

List of Publications by Year in descending order

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36
papers

1,186
citations

516710

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377865

34
g-index

36
all docs

36
docs citations

36
times ranked

1844
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Progress of the PAL-XFEL. Applied Sciences (Switzerland), 2022, 12, 1010.	2.5	10
2	Development of an experimental apparatus to observe ultrafast phenomena by tender X-ray absorption spectroscopy at PAL-XFEL. Journal of Synchrotron Radiation, 2022, 29, 194-201.	2.4	1
3	Following the Crystallization of Amorphous Ice after Ultrafast Laser Heating. Journal of Physical Chemistry B, 2022, 126, 2299-2307.	2.6	8
4	Subpicosecond Optical Stress Generation in Multiferroic BiFeO ₃ . Nano Letters, 2022, 22, 4294-4300.	9.1	4
5	High-brightness self-seeded X-ray free-electron laser covering the 3.5 keV to 14.6 keV range. Nature Photonics, 2021, 15, 435-441.	31.4	47
6	Single-Shot Coherent X-ray Imaging Instrument at PAL-XFEL. Applied Sciences (Switzerland), 2021, 11, 5082.	2.5	5
7	Optical Kerr Effect of Liquid Acetonitrile Probed by Femtosecond Time-Resolved X-ray Liquidography. Journal of the American Chemical Society, 2021, 143, 14261-14273.	13.7	11
8	Structural Evidence for Ultrafast Polarization Rotation in Ferroelectric/Dielectric Superlattice Nanodomains. Physical Review X, 2021, 11, .	8.9	5
9	Ultrafast Carrier-Lattice Interactions and Interlayer Modulations of Bi ₂ Se ₃ by X-ray Free-Electron Laser Diffraction. Nano Letters, 2021, 21, 8554-8562.	9.1	10
10	Inducing thermodynamically blocked atomic ordering via strongly driven nonequilibrium kinetics. Science Advances, 2021, 7, eabj8552.	10.3	6
11	Experimental observation of the liquid-liquid transition in bulk supercooled water under pressure. Science, 2020, 370, 978-982.	12.6	143
12	Time-resolved resonant elastic soft x-ray scattering at Pohang Accelerator Laboratory X-ray Free Electron Laser. Review of Scientific Instruments, 2020, 91, 083904.	1.3	14
13	Mapping the emergence of molecular vibrations mediating bond formation. Nature, 2020, 582, 520-524.	27.8	55
14	Subnanosecond phase transition dynamics in laser-shocked iron. Science Advances, 2020, 6, eaaz5132.	10.3	29
15	Ultrafast x-ray diffraction study of melt-front dynamics in polycrystalline thin films. Science Advances, 2020, 6, eaax2445.	10.3	21
16	Laser systems for time-resolved experiments at the Pohang Accelerator Laboratory X-ray Free-Electron Laser beamlines. Journal of Synchrotron Radiation, 2019, 26, 868-873.	2.4	9
17	Hard X-ray self-seeding commissioning at PAL-XFEL. Journal of Synchrotron Radiation, 2019, 26, 1101-1109.	2.4	17
18	Non-thermal fluence threshold for femtosecond pulsed x-ray radiation damage in perovskite complex oxide epitaxial heterostructures. Applied Physics Letters, 2019, 115, .	3.3	5

#	ARTICLE	IF	CITATIONS
19	PAL-XFEL soft X-ray scientific instruments and X-ray optics: First commissioning results. Review of Scientific Instruments, 2018, 89, 055105.	1.3	23
20	Hard X-ray free-electron laser with femtosecond-scale timing jitter. Nature Photonics, 2017, 11, 708-713.	31.4	389
21	Construction and Commissioning of PAL-XFEL Facility. Applied Sciences (Switzerland), 2017, 7, 479.	2.5	108
22	Demonstration of a time-resolved x-ray scattering instrument utilizing the full-repetition rate of x-ray pulses at the Pohang Light Source. Review of Scientific Instruments, 2016, 87, 035107.	1.3	3
23	Crystal structures of Dronpa complexed with quenchable metal ions provide insight into metal biosensor development. FEBS Letters, 2016, 590, 2982-2990.	2.8	12
24	Design of a hard X-ray beamline and end-station for pump and probe experiments at Pohang Accelerator Laboratory X-ray Free Electron Laser facility. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 810, 74-79.	1.6	19
25	Chiroptical signal enhancement in quasi-null-polarization-detection geometry: Intrinsic limitations. Physical Review A, 2015, 91, .	2.5	9
26	Synchronizing femtosecond laser with x-ray synchrotron operating at arbitrarily different frequencies. Review of Scientific Instruments, 2014, 85, 125112.	1.3	5
27	Retrieval of frequency spectrum from time-resolved spectroscopic data: comparison of Fourier transform and linear prediction methods. Optics Express, 2014, 22, 30512.	3.4	9
28	Heterodyne Detection of Electronic Optical Activity in Time-Domain: Single-Shot Chiroptical Spectrometry. EPJ Web of Conferences, 2013, 41, 12012.	0.3	0
29	Single-Shot Electronic Optical Activity Interferometry: Power and Phase Fluctuation-Free Measurement. Physical Review Letters, 2012, 108, 103901.	7.8	32
30	Coherent electric field characterization of molecular chirality in the time domain. Chemical Society Reviews, 2012, 41, 4457.	38.1	22
31	Coherent Electronic and Phononic Oscillations in Single-Walled Carbon Nanotubes. Nano Letters, 2012, 12, 769-773.	9.1	7
32	Broadband near UV to visible optical activity measurement using self-heterodyned method. Optics Express, 2011, 19, 10017.	3.4	23
33	Polar solvation dynamics of coumarin 153 by ultrafast time-resolved fluorescence. Journal of Chemical Physics, 2009, 131, 244507.	3.0	51
34	Enhancement and Concurrence of Emissions from Multiple Fluorophores in a Single Emitting Layer of Micellar Nanostructures. Advanced Functional Materials, 2008, 18, 2984-2989.	14.9	26
35	Ring Closure Reaction Dynamics of Diarylethene Derivatives in Solution. Journal of Physical Chemistry A, 2007, 111, 8910-8917.	2.5	47
36	Optically Induced Picosecond Lattice Compression in the Dielectric Component of a Strongly Coupled Ferroelectric/Dielectric Superlattice. Advanced Electronic Materials, 0, , 2101051.	5.1	1