# Intae Eom

List of Publications by Year
in descending order

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|---|---|---|---|
| 36 papers | 1,186 citations | 516710 16 h-index | 377865 34 g-index |
| 36 all docs | 36 docs citations | 36 times ranked | 1844 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Hard X-ray free-electron laser with femtosecond-scale timing jitter. Nature Photonics, 2017, 11, 708-713. | 31.4 | 389 |
| 2 | Experimental observation of the liquid-liquid transition in bulk supercooled water under pressure. Science, 2020, 370, 978-982. | 12.6 | 143 |
| 3 | Construction and Commissioning of PAL-XFEL Facility. Applied Sciences (Switzerland), 2017, 7, 479. | 2.5 | 108 |
| 4 | Mapping the emergence of molecular vibrations mediating bond formation. Nature, 2020, 582, 520-524. | 27.8 | 55 |
| 5 | Polar solvation dynamics of coumarin 153 by ultrafast time-resolved fluorescence. Journal of Chemical Physics, 2009, 131, 244507. | 3.0 | 51 |
| 6 | Ring Closure Reaction Dynamics of Diarylethene Derivatives in Solution. Journal of Physical Chemistry A, 2007, 111, 8910-8917. | 2.5 | 47 |
| 7 | High-brightness self-seeded X-ray free-electron laser covering the 3.5â€‰keV to 14.6â€‰keV range. Nature Photonics, 2021, 15, 435-441. | 31.4 | 47 |
| 8 | Single-Shot Electronic Optical Activity Interferometry: Power and Phase Fluctuation-Free Measurement. Physical Review Letters, 2012, 108, 103901. | 7.8 | 32 |
| 9 | Subnanosecond phase transition dynamics in laser-shocked iron. Science Advances, 2020, 6, eaaz5132. | 10.3 | 29 |
| 10 | 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 |
| 11 | Broadband near UV to visible optical activity measurement using self-heterodyned method. Optics Express, 2011, 19, 10017. | 3.4 | 23 |
| 12 | PAL-XFEL soft X-ray scientific instruments and X-ray optics: First commissioning results. Review of Scientific Instruments, 2018, 89, 055105. | 1.3 | 23 |
| 13 | Coherent electric field characterization of molecular chirality in the time domain. Chemical Society Reviews, 2012, 41, 4457. | 38.1 | 22 |
| 14 | Ultrafast x-ray diffraction study of melt-front dynamics in polycrystalline thin films. Science Advances, 2020, 6, eaax2445. | 10.3 | 21 |
| 15 | 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 |
| 16 | Hard X-ray self-seeding commissioning at PAL-XFEL. Journal of Synchrotron Radiation, 2019, 26, 1101-1109. | 2.4 | 17 |
| 17 | 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 |
| 18 | Crystal structures of Dronpa complexed with quenchable metal ions provide insight into metal biosensor development. FEBS Letters, 2016, 590, 2982-2990. | 2.8 | 12 |

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|---|---|---|---|
| 19 | 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 |
| 20 | Ultrafast Carrierâ€"Lattice Interactions and Interlayer Modulations of Bi<sub>2</sub>Se<sub>3</sub> by X-ray Free-Electron Laser Diffraction. Nano Letters, 2021, 21, 8554-8562. | 9.1 | 10 |
| 21 | Recent Progress of the PAL-XFEL. Applied Sciences (Switzerland), 2022, 12, 1010. | 2.5 | 10 |
| 22 | 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 |
| 23 | Chiroptical signal enhancement in quasi-null-polarization-detection geometry: Intrinsic limitations. Physical Review A, 2015, 91, . | 2.5 | 9 |
| 24 | 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 |
| 25 | Following the Crystallization of Amorphous Ice after Ultrafast Laser Heating. Journal of Physical Chemistry B, 2022, 126, 2299-2307. | 2.6 | 8 |
| 26 | Coherent Electronic and Phononic Oscillations in Single-Walled Carbon Nanotubes. Nano Letters, 2012, 12, 769-773. | 9.1 | 7 |
| 27 | Inducing thermodynamically blocked atomic ordering via strongly driven nonequilibrium kinetics. Science Advances, 2021, 7, eabj8552. | 10.3 | 6 |
| 28 | Synchronizing femtosecond laser with x-ray synchrotron operating at arbitrarily different frequencies. Review of Scientific Instruments, 2014, 85, 125112. | 1.3 | 5 |
| 29 | 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 |
| 30 | Single-Shot Coherent X-ray Imaging Instrument at PAL-XFEL. Applied Sciences (Switzerland), 2021, 11, 5082. | 2.5 | 5 |
| 31 | Structural Evidence for Ultrafast Polarization Rotation in Ferroelectric/Dielectric Superlattice Nanodomains. Physical Review X, 2021, 11, . | 8.9 | 5 |
| 32 | Subpicosecond Optical Stress Generation in Multiferroic BiFeO<sub>3</sub>. Nano Letters, 2022, 22, 4294-4300. | 9.1 | 4 |
| 33 | 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 |
| 34 | 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 |
| 35 | Optically Induced Picosecond Lattice Compression in the Dielectric Component of a Strongly Coupled Ferroelectric/Dielectric Superlattice. Advanced Electronic Materials, 0, , 2101051. | 5.1 | 1 |
| 36 | Heterodyne Detection of Electronic Optical Activity in Time-Domain: Single-Shot Chiroptical Spectrometry. EPJ Web of Conferences, 2013, 41, 12012. | 0.3 | 0 |