

Taito Osaka

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

492
citations

759233

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times ranked

580
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Hard x-ray intensity autocorrelation using direct two-photon absorption. <i>Physical Review Research</i> , 2022, 4, . | 3.6 | 8 |
| 2 | Double-multilayer monochromators for high-energy and large-field X-ray imaging applications with intense pink beams at SPring-8 BL20B2. <i>Journal of Synchrotron Radiation</i> , 2022, 29, 1265-1272. | 2.4 | 7 |
| 3 | Hard X-ray nanoprobe scanner. <i>IUCr</i> , 2021, 8, 713-718. | 2.2 | 2 |
| 4 | Shortening X-Ray Pulse Duration via Saturable Absorption. <i>Physical Review Letters</i> , 2021, 127, 163903. | 7.8 | 13 |
| 5 | Split-pulse X-ray photon correlation spectroscopy with seeded X-rays from X-ray laser to study atomic-level dynamics. <i>Nature Communications</i> , 2020, 11, 6213. | 12.8 | 16 |
| 6 | Feasibility study of interferometric phase-contrast X-ray imaging using the hard-X-ray free-electron laser of the SPring-8 Angstrom Compact Free-Electron Laser. <i>Journal of Synchrotron Radiation</i> , 2020, 27, 1358-1361. | 2.4 | 3 |
| 7 | Nanofocusing Optics for an X-Ray Free-Electron Laser Generating an Extreme Intensity of 100 EW/cm ² Using Total Reflection Mirrors. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2611. | 2.5 | 17 |
| 8 | Realizing split-pulse x-ray photon correlation spectroscopy to measure ultrafast dynamics in complex matter. <i>Physical Review Research</i> , 2020, 2, . | 3.6 | 12 |
| 9 | 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 |
| 10 | Focus characterization of an X-ray free-electron laser by intensity correlation measurement of X-ray fluorescence. <i>Journal of Synchrotron Radiation</i> , 2020, 27, 1366-1371. | 2.4 | 6 |
| 11 | Two-color X-ray free-electron laser consisting of broadband and narrowband beams. <i>Journal of Synchrotron Radiation</i> , 2020, 27, 1720-1724. | 2.4 | 3 |
| 12 | High-resolution micro channel-cut crystal monochromator processed by plasma chemical vaporization machining for a reflection self-seeded X-ray free-electron laser. <i>Optics Express</i> , 2020, 28, 25706. | 3.4 | 6 |
| 13 | A test bench of X-ray optics for next-generation high-energy high-flux X-ray beamlines. , 2020, , . | | 1 |
| 14 | Determination of X-ray pulse duration via intensity correlation measurements of X-ray fluorescence. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 2050-2054. | 2.4 | 24 |
| 15 | Generation of narrow-band X-ray free-electron laser via reflection self-seeding. <i>Nature Photonics</i> , 2019, 13, 319-322. | 31.4 | 81 |
| 16 | A micro channel-cut crystal X-ray monochromator for a self-seeded hard X-ray free-electron laser. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 1496-1502. | 2.4 | 9 |
| 17 | X-ray optics for advanced ultrafast pump-probe X-ray experiments at SACLA. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 333-338. | 2.4 | 22 |
| 18 | Surface Finishing Method Using Plasma Chemical Vaporization Machining for Narrow Channel Walls of X-Ray Crystal Monochromators. <i>International Journal of Automation Technology</i> , 2019, 13, 246-253. | 1.0 | 4 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | An X-ray harmonic separator for next-generation synchrotron X-ray sources and X-ray free-electron lasers. <i>Journal of Synchrotron Radiation</i> , 2018, 25, 346-353. | 2.4 | 8 |
| 20 | Stabilization of X-ray Beamline Optics towards Tens of Nanoradian Levels at SPring-8/SACLA. <i>Synchrotron Radiation News</i> , 2018, 31, 33-37. | 0.8 | 1 |
| 21 | Systematic-error-free wavefront measurement using an X-ray single-grating interferometer. <i>Review of Scientific Instruments</i> , 2018, 89, 043106. | 1.3 | 13 |
| 22 | Nonlinear Spectroscopy with X-Ray Two-Photon Absorption in Metallic Copper. <i>Physical Review Letters</i> , 2018, 121, 083901. | 7.8 | 38 |
| 23 | Performance of a hard X-ray split-and-delay optical system with a wavefront division. <i>Journal of Synchrotron Radiation</i> , 2018, 25, 20-25. | 2.4 | 25 |
| 24 | Overview of optics, photon diagnostics and experimental instruments at SACLA: development, operation and scientific applications. , 2017, , . | | 3 |
| 25 | Characterization of temporal coherence of hard X-ray free-electron laser pulses with single-shot interferograms. <i>IUCr</i> , 2017, 4, 728-733. | 2.2 | 32 |
| 26 | Development of speckle-free channel-cut crystal optics using plasma chemical vaporization machining for coherent x-ray applications. <i>Review of Scientific Instruments</i> , 2016, 87, 063118. | 1.3 | 14 |
| 27 | Wavelength-tunable split-and-delay optical system for hard X-ray free-electron lasers. <i>Optics Express</i> , 2016, 24, 9187. | 3.4 | 52 |
| 28 | A Bragg beam splitter for hard x-ray free-electron lasers. <i>Optics Express</i> , 2013, 21, 2823. | 3.4 | 55 |
| 29 | Fabrication of Ultrathin Bragg Beam Splitter by Plasma Chemical Vaporization Machining. <i>Key Engineering Materials</i> , 0, 523-524, 40-45. | 0.4 | 8 |