Ryota Kinjo

List of Publications by Year in descending order

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36 papers	252 citations	933447 10 h-index	996975 15 g-index
36 all docs	36 docs citations	36 times ranked	218 citing authors

#	Article	IF	Citations
1	Lasing at 12 Âμm Mid-Infrared Free-Electron Laser in Kyoto University. Japanese Journal of Applied Physics, 2008, 47, 8091.	1.5	25
2	Pulse-by-pulse multi-beam-line operation for x-ray free-electron lasers. Physical Review Accelerators and Beams, 2016, 19, .	1.6	24
3	Synthesizing high-order harmonics to generate a sub-cycle pulse in free-electron lasers. Applied Physics Letters, 2016, 109, .	3.3	22
4	Attosecond single-cycle undulator light: a review. Reports on Progress in Physics, 2019, 82, 025901.	20.1	21
5	Radiation-induced magnetization reversal causing a large flux loss in undulator permanent magnets. Scientific Reports, 2016, 6, 37937.	3.3	19
6	Magnetic property of a staggered-array undulator using a bulk high-temperature superconductor. Physical Review Special Topics: Accelerators and Beams, 2014, 17, .	1.8	14
7	Using irregularly spaced current peaks to generateÂan isolated attosecond X-ray pulse in free-electron lasers. Journal of Synchrotron Radiation, 2016, 23, 1273-1281.	2.4	14
8	Demonstration of a High-Field Short-Period Undulator Using Bulk High-Temperature Superconductor. Applied Physics Express, 2013, 6, 042701.	2.4	13
9	Lightweight-compact variable-gap undulator with force cancellation system based on multipole monolithic magnets. Review of Scientific Instruments, 2017, 88, 073302.	1.3	12
10	Fast and efficient critical state modelling of field-cooled bulk high-temperature superconductors using a backward computation method. Superconductor Science and Technology, 2020, 33, 114007.	3.5	12
11	Analysis of ECRH Pre-Ionization for Plasma Start-Up in JT-60SA. Plasma and Fusion Research, 2012, 7, 2403104-2403104.	0.7	10
12	Enhancing the Radiation Resistance of Undulator Permanent Magnets by Tilting the Easy Axis of Magnetization. Physical Review Letters, 2018, 121, 124801.	7.8	8
13	Beam Energy Compensation in a Thermionic RF Gun by Cavity Detuning. IEEE Transactions on Nuclear Science, 2009, 56, 1487-1491.	2.0	6
14	Phase combination for self-cancellation of magnetic force in undulators. Physical Review Special Topics: Accelerators and Beams, 2014, 17, .	1.8	6
15	Undulator Development for SPring-8-II. Synchrotron Radiation News, 2015, 28, 45-49.	0.8	6
16	Application of Bulk High-temperature Superconductor to Insertion Device for Synchrotron Radiation. TEION KOGAKU (Journal of Cryogenics and Superconductivity Society of Japan), 2011, 46, 118-124.	0.1	6
17	Fully-staggered-array bulk Re-Ba-Cu-O short-period undulator: large-scale 3D electromagnetic modelling and design optimization using A-V and H-formulation methods. Superconductor Science and Technology, 2021, 34, 094002.	3.5	5
18	Spectrum splitting for fast polarization switching ofÂundulator radiation. Journal of Synchrotron Radiation, 2016, 23, 751-757.	2.4	5

#	Article	IF	Citations
19	Dependable embedded processor core for higher reliability. , 2009, , .		4
20	Proposal of a Bulk HTSC Staggered Array Undulator. AIP Conference Proceedings, 2010, , .	0.4	4
21	Analysis of SNIP Algorithm for Background Estimation in Spectra Measured with LaBr3: Ce Detectors. Green Energy and Technology, 2013, , 245-252.	0.6	4
22	Development of an undulator with a variable magnetic field profile. Journal of Synchrotron Radiation, 2021, 28, 404-409.	2.4	3
23	Inverse analysis of critical current density in a bulk high-temperature superconducting undulator. Physical Review Accelerators and Beams, 2022, 25, .	1.6	2
24	Probability of calculation failures by soft errors in an embedded processor core. , 2009, , .		1
25	Short bunch effect on tabletop THz FEL amplification. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 637, S83-S86.	1.6	1
26	Assessment of LaBr<inf>3</inf>(Ce) scintillators system for measuring nuclear resonance fluorescence excitations near 2 MeV. , 2011, , .		1
27	Improvement of trapped field in DyBaCuO bulk by proton irradiation. Physica C: Superconductivity and Its Applications, 2013, 484, 117-119.	1.2	1
28	Comparison Between the Hexaboride Materials as Thermionic Cathode in the RF Guns for a Compact MIR-FEL Driver. Green Energy and Technology, 2010, , 202-210.	0.6	1
29	Optimization of the New Designed FEL Beam Transport Line. Green Energy and Technology, 2013, , 205-216.	0.6	1
30	Undulator configuration for helicity switching in in-vacuum undulators. Physical Review Accelerators and Beams, 2020, 23, .	1.6	1
31	Investigation of Electron Beam Parameter in Seeded THz-FEL Amplifier using Photocathode RF Gun. Energy Procedia, 2013, 34, 863-870.	1.8	0
32	Analysis of Transient Response of RF Gun Cavity Due to Back-Bombardment Effect in KU-FEL. Green Energy and Technology, 2011, , 193-200.	0.6	0
33	Beam Stabilization by Using BPM in KU-FEL. Green Energy and Technology, 2011, , 187-192.	0.6	0
34	Simulation of Electron Trajectory in Bulk HTSC Staggered Array Undulator. Green Energy and Technology, 2012, , 193-198.	0.6	0
35	Monte Carlo Calculations of Î³-Rays Angular Distribution Scattering from 11B in (Î³, Î³) Interaction. Green Energy and Technology, 2013, , 197-203.	0.6	0
36	High gain harmonic generation free electron lasers enhanced by pseudoenergy bands. Physical Review Accelerators and Beams, 2017, 20, .	1.6	0