## Hiroshi Sawada

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/6210922/publications.pdf Version: 2024-02-01



ΗΙΡΟΣΗΙ ΣΛΙΜΑΠΑ

#	Article	IF	CITATIONS
1	2D monochromatic x-ray imaging for beam monitoring of an x-ray free electron laser and a high-power femtosecond laser. Review of Scientific Instruments, 2021, 92, 013510.	1.3	3
2	Development of a predictive capability of short-pulse laser-driven broadband x-ray radiography. Plasma Physics and Controlled Fusion, 2020, 62, 065001.	2.1	5
3	Petapascal Pressure Driven by Fast Isochoric Heating with a Multipicosecond Intense Laser Pulse. Physical Review Letters, 2020, 124, 035001.	7.8	26
4	The response function of Fujifilm BAS-TR imaging plates to laser-accelerated titanium ions. Review of Scientific Instruments, 2019, 90, 083302.	1.3	10
5	Development of broadband x-ray radiography for diagnosing magnetically driven cylindrically compressed matter. Physics of Plasmas, 2019, 26, 083104.	1.9	5
6	Study of laser produced plasma in a longitudinal magnetic field. Physics of Plasmas, 2019, 26, .	1.9	12
7	Monochromatic 2D <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"&gt;<mml:mrow><mml:mi>K</mml:mi><mml:mi>ݱ</mml:mi></mml:mrow></mml:math> Emission Images Revealing Short-Pulse Laser Isochoric Heating Mechanism. Physical Review Letters, 2019, 122, 155002.	7.8	16
8	Characterization of fast electron divergence and energy spectrum from modeling of angularly resolved bremsstrahlung measurements. Physics of Plasmas, 2018, 25, .	1.9	15
9	Reduced fast electron transport in shock-heated plasma in multilayer targets due to self-generated magnetic fields. Physical Review E, 2018, 98, .	2.1	0
10	Magnetized fast isochoric laser heating for efficient creation of ultra-high-energy-density states. Nature Communications, 2018, 9, 3937.	12.8	75
11	Calibration and characterization of a highly efficient spectrometer in von Hamos geometry for 7-10 keV x-rays. Review of Scientific Instruments, 2017, 88, 043110.	1.3	15
12	Two-color monochromatic x-ray imaging with a single short-pulse laser. Review of Scientific Instruments, 2017, 88, 063502.	1.3	6
13	Transport and spatial energy deposition of relativistic electrons in copper-doped fast ignition plasmas. Physics of Plasmas, 2017, 24, 102710.	1.9	6
14	Numerical study of core formation of asymmetrically driven cone-guided targets. Physics of Plasmas, 2017, 24, 100703.	1.9	0
15	Collimated Propagation of Fast Electron Beams Accelerated by High-Contrast Laser Pulses in Highly Resistive Shocked Carbon. Physical Review Letters, 2017, 118, 205001.	7.8	11
16	Cu-oleate microspheres fabricated by emulsion method as novel targets for fast ignition laser fusion experiments. Fusion Engineering and Design, 2017, 125, 89-92.	1.9	7
17	Analysis of gene expression profiles of <i>Lactobacillus paracasei</i> induced by direct contact with <i>Saccharomyces cerevisiae</i> through recognition of yeast mannan. Bioscience of Microbiota, Food and Health, 2017, 36, 17-25.	1.8	18
18	Development of 4.5 keV monochromatic X-ray radiography using the high-energy, picosecond LFEX laser. Journal of Physics: Conference Series, 2016, 717, 012112.	0.4	6

Hiroshi Sawada

#	Article	IF	CITATIONS
19	Fast ignition realization experiment with high-contrast kilo-joule peta-watt LFEX laser and strong external magnetic field. Physics of Plasmas, 2016, 23, .	1.9	54
20	Flash Kα radiography of laser-driven solid sphere compression for fast ignition. Applied Physics Letters, 2016, 108, .	3.3	25
21	Spectral tomographic analysis of Bremsstrahlung X-rays generated in a laser-produced plasma. Laser and Particle Beams, 2016, 34, 645-654.	1.0	13
22	Visualizing fast electron energy transport into laser-compressed high-density fast-ignitionÂtargets. Nature Physics, 2016, 12, 499-504.	16.7	49
23	High-contrast laser acceleration of relativistic electrons in solid cone-wire targets. Physical Review E, 2015, 92, 063112.	2.1	4
24	Enhanced Relativistic-Electron-Beam Energy Loss in Warm Dense Aluminum. Physical Review Letters, 2015, 114, 095004.	7.8	23
25	Characterization of intense laser-produced fast electrons using hard x-rays via bremsstrahlung. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 224008.	1.5	24
26	Time-resolved compression of a capsule with a cone to high density for fast-ignition laser fusion. Nature Communications, 2014, 5, 5785.	12.8	50
27	Measurement of pulsed-power-driven magnetic fields via proton deflectometry. Applied Physics Letters, 2014, 105, .	3.3	17
28	Investigation of fast-electron-induced <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"&gt;<mml:mi>K</mml:mi>α x rays in laser-produced blow-off plasma. Physical Review E, 2014, 89, 033105.</mml:math 	2.1	5
29	Relativistic high-current electron beams in dense plasmas in the context of the fast ignition of inertially confined fusion targets. , 2013, , .		0
30	Effect of Target Material on Fast-Electron Transport and Resistive Collimation. Physical Review Letters, 2013, 110, 025001.	7.8	40
31	Impact of extended preplasma on energy coupling in kilojoule energy relativistic laser interaction with cone wire targets relevant to fast ignition. New Journal of Physics, 2013, 15, 015020.	2.9	7
32	Supra-thermal electron beam stopping power and guiding in dense plasmas. Journal of Plasma Physics, 2013, 79, 429-435.	2.1	8
33	An evaluation of high energy bremsstrahlung background in point-projection x-ray radiography experiments. Review of Scientific Instruments, 2012, 83, 10E528.	1.3	12
34	Emission of energetic protons from relativistic intensity laser interaction with a cone-wire target. Physical Review E, 2012, 86, 056405.	2.1	3
35	Hot Electron Temperature and Coupling Efficiency Scaling with Prepulse for Cone-Guided Fast Ignition. Physical Review Letters, 2012, 108, 115004.	7.8	60
36	Temporally resolved characterization of shock-heated foam target with Al absorption spectroscopy for fast electron transport study. Physics of Plasmas, 2012, 19, 092705.	1.9	1

Hiroshi Sawada

#	Article	IF	CITATIONS
37	Dynamics of Relativistic Laser-Plasma Interaction on Solid Targets. Physical Review Letters, 2012, 109, 145006.	7.8	40
38	Diagnosing laser-driven, shock-heated foam target with Al absorption spectroscopy on OMEGA EP. High Energy Density Physics, 2012, 8, 180-183.	1.5	8
39	Characterizing the energy distribution of laser-generated relativistic electrons in cone-wire targets. Physics of Plasmas, 2012, 19, .	1.9	13
40	Spectroscopic observations of Fermi-degenerate aluminum compressed and heated to four times solid density and 20ÂeV. High Energy Density Physics, 2011, 7, 259-262.	1.5	3
41	Proton Radiography of Intense-Laser-Irradiated Wire-Attached Cone Targets. IEEE Transactions on Plasma Science, 2011, 39, 2822-2823.	1.3	3
42	Monochromatic Imaging of 8.0-keV Cu \$hbox{K}alpha\$ Emission Induced by Energetic Electrons Generated at OMEGA EP. IEEE Transactions on Plasma Science, 2011, 39, 2816-2817.	1.3	3
43	Divergence of laser-generated hot electrons generated in a cone geometry. Journal of Physics: Conference Series, 2010, 244, 022064.	0.4	Ο
44	Hot electron generation and transport using Kα emission. Journal of Physics: Conference Series, 2010, 244, 022026.	0.4	3
45	Single-shot divergence measurements of a laser-generated relativistic electron beam. Physics of Plasmas, 2010, 17, .	1.9	11
46	Al   1 s - 2 p absorption spectroscopy of shock-wave heating and compression in laser-driven planar foil. Physics of Plasmas, 2009, 16, .	1.9	18
47	Applied plasma spectroscopy: Laser-fusion experiments. High Energy Density Physics, 2009, 5, 234-243.	1.5	10
48	Compton scattering measurements from dense plasmas*. Journal of Physics: Conference Series, 2008, 112, 032071.	0.4	5
49	Transition between Rydberg 1s and 2p Exciton states of Biexcitons in Semiconductor Quantum Dots. , 2007, , .		Ο
50	Diagnosing direct-drive, shock-heated, and compressed plastic planar foils with noncollective spectrally resolved x-ray scattering. Physics of Plasmas, 2007, 14, 122703.	1.9	37
51	Transition between rydberg 1s and 2p exciton states of biexcitons in semiconductor quantum dots. , 2007, , .		Ο
52	Laser absorption, mass ablation rate, and shock heating in direct-drive inertial confinement fusion. Physics of Plasmas, 2007, 14, 056305.	1.9	30
53	Measurement of carbon ionization balance in high-temperature plasma mixtures by temporally resolved X-ray scattering. Journal of Quantitative Spectroscopy and Radiative Transfer, 2006, 99, 225-237.	2.3	56
54	Hot surface ionic line emission and cold K-inner shell emission from petawatt-laser-irradiated Cu foil targets. Physics of Plasmas, 2006, 13, 043102.	1.9	99

#	Article	IF	CITATIONS
55	Infrared transient absorption spectra of excitons and biexcitons confined in CuCl quantum dots. , 2006, , .		2
56	Direct-Drive Inertial Confinement Fusion Implosions on Omega. Astrophysics and Space Science, 2005, 298, 227-233.	1.4	2
57	<title>Characterization of Brillouin-enhanced four-wave mixing for an application to space debris removal</title> . , 1999, , .		4
58	Microbial Production of Ursodeoxycholic Acid from Lithocholic Acid by <i>Fusarium equiseti</i> M41. Applied and Environmental Microbiology, 1982, 44, 1249-1252.	3.1	36