

Hiroshi Sawada

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

53

papers

827

citations

16

h-index

26

g-index

58

ext. papers

947

ext. citations

3.4

avg, IF

2.82

L-index

#	Paper	IF	Citations
53	2D monochromatic x-ray imaging for beam monitoring of an x-ray free electron laser and a high-power femtosecond laser. <i>Review of Scientific Instruments</i> , 2021 , 92, 013510	1.7	3
52	Development of a predictive capability of short-pulse laser-driven broadband x-ray radiography. <i>Plasma Physics and Controlled Fusion</i> , 2020 , 62, 065001	2	4
51	Petapascal Pressure Driven by Fast Isochoric Heating with a Multipicosecond Intense Laser Pulse. <i>Physical Review Letters</i> , 2020 , 124, 035001	7.4	13
50	Study of laser produced plasma in a longitudinal magnetic field. <i>Physics of Plasmas</i> , 2019 , 26, 062707	2.1	9
49	Monochromatic 2D K α Emission Images Revealing Short-Pulse Laser Isochoric Heating Mechanism. <i>Physical Review Letters</i> , 2019 , 122, 155002	7.4	11
48	The response function of Fujifilm BAS-TR imaging plates to laser-accelerated titanium ions. <i>Review of Scientific Instruments</i> , 2019 , 90, 083302	1.7	8
47	Development of broadband x-ray radiography for diagnosing magnetically driven cylindrically compressed matter. <i>Physics of Plasmas</i> , 2019 , 26, 083104	2.1	3
46	Characterization of fast electron divergence and energy spectrum from modeling of angularly resolved bremsstrahlung measurements. <i>Physics of Plasmas</i> , 2018 , 25, 123103	2.1	8
45	Magnetized fast isochoric laser heating for efficient creation of ultra-high-energy-density states. <i>Nature Communications</i> , 2018 , 9, 3937	17.4	53
44	Calibration and characterization of a highly efficient spectrometer in von Hamos geometry for 7-10 keV x-rays. <i>Review of Scientific Instruments</i> , 2017 , 88, 043110	1.7	13
43	Two-color monochromatic x-ray imaging with a single short-pulse laser. <i>Review of Scientific Instruments</i> , 2017 , 88, 063502	1.7	4
42	Transport and spatial energy deposition of relativistic electrons in copper-doped fast ignition plasmas. <i>Physics of Plasmas</i> , 2017 , 24, 102710	2.1	5
41	Numerical study of core formation of asymmetrically driven cone-guided targets. <i>Physics of Plasmas</i> , 2017 , 24, 100703	2.1	
40	Collimated Propagation of Fast Electron Beams Accelerated by High-Contrast Laser Pulses in Highly Resistive Shocked Carbon. <i>Physical Review Letters</i> , 2017 , 118, 205001	7.4	9
39	Cu-oleate microspheres fabricated by emulsion method as novel targets for fast ignition laser fusion experiments. <i>Fusion Engineering and Design</i> , 2017 , 125, 89-92	1.7	6
38	Analysis of gene expression profiles of induced by direct contact with through recognition of yeast mannan. <i>Bioscience of Microbiota, Food and Health</i> , 2017 , 36, 17-25	3.2	9
37	Visualizing fast electron energy transport into laser-compressed high-density fast-ignition targets. <i>Nature Physics</i> , 2016 , 12, 499-504	16.2	40

36	Development of 4.5 keV monochromatic X-ray radiography using the high-energy, picosecond LFEX laser. <i>Journal of Physics: Conference Series</i> , 2016 , 717, 012112	0.3	4
35	Fast ignition realization experiment with high-contrast kilo-joule peta-watt LFEX laser and strong external magnetic field. <i>Physics of Plasmas</i> , 2016 , 23, 056308	2.1	44
34	Flash K α radiography of laser-driven solid sphere compression for fast ignition. <i>Applied Physics Letters</i> , 2016 , 108, 254101	3.4	22
33	Spectral tomographic analysis of Bremsstrahlung X-rays generated in a laser-produced plasma. <i>Laser and Particle Beams</i> , 2016 , 34, 645-654	0.9	10
32	Enhanced relativistic-electron-beam energy loss in warm dense aluminum. <i>Physical Review Letters</i> , 2015 , 114, 095004	7.4	21
31	Characterization of intense laser-produced fast electrons using hard x-rays via bremsstrahlung. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015 , 48, 224008	1.3	17
30	High-contrast laser acceleration of relativistic electrons in solid cone-wire targets. <i>Physical Review E</i> , 2015 , 92, 063112	2.4	3
29	Investigation of fast-electron-induced K α rays in laser-produced blow-off plasma. <i>Physical Review E</i> , 2014 , 89, 033105	2.4	5
28	Time-resolved compression of a capsule with a cone to high density for fast-ignition laser fusion. <i>Nature Communications</i> , 2014 , 5, 5785	17.4	41
27	Measurement of pulsed-power-driven magnetic fields via proton deflectometry. <i>Applied Physics Letters</i> , 2014 , 105, 224103	3.4	12
26	Effect of target material on fast-electron transport and resistive collimation. <i>Physical Review Letters</i> , 2013 , 110, 025001	7.4	36
25	Impact of extended preplasma on energy coupling in kilojoule energy relativistic laser interaction with cone wire targets relevant to fast ignition. <i>New Journal of Physics</i> , 2013 , 15, 015020	2.9	6
24	Supra-thermal electron beam stopping power and guiding in dense plasmas. <i>Journal of Plasma Physics</i> , 2013 , 79, 429-435	2.7	8
23	Temporally resolved characterization of shock-heated foam target with Al absorption spectroscopy for fast electron transport study. <i>Physics of Plasmas</i> , 2012 , 19, 092705	2.1	0
22	Dynamics of relativistic laser-plasma interaction on solid targets. <i>Physical Review Letters</i> , 2012 , 109, 145006	9.0	35
21	Diagnosing laser-driven, shock-heated foam target with Al absorption spectroscopy on OMEGA EP. <i>High Energy Density Physics</i> , 2012 , 8, 180-183	1.2	6
20	Characterizing the energy distribution of laser-generated relativistic electrons in cone-wire targets. <i>Physics of Plasmas</i> , 2012 , 19, 103108	2.1	13
19	An evaluation of high energy bremsstrahlung background in point-projection x-ray radiography experiments. <i>Review of Scientific Instruments</i> , 2012 , 83, 10E528	1.7	11

18	Emission of energetic protons from relativistic intensity laser interaction with a cone-wire target. <i>Physical Review E</i> , 2012 , 86, 056405	2.4	3
17	Hot electron temperature and coupling efficiency scaling with prepulse for cone-guided fast ignition. <i>Physical Review Letters</i> , 2012 , 108, 115004	7.4	52
16	Spectroscopic observations of Fermi-degenerate aluminum compressed and heated to four times solid density and 20keV. <i>High Energy Density Physics</i> , 2011 , 7, 259-262	1.2	3
15	Proton Radiography of Intense-Laser-Irradiated Wire-Attached Cone Targets. <i>IEEE Transactions on Plasma Science</i> , 2011 , 39, 2822-2823	1.3	3
14	Monochromatic Imaging of 8.0-keV Cu $K\alpha$ Emission Induced by Energetic Electrons Generated at OMEGA EP. <i>IEEE Transactions on Plasma Science</i> , 2011 , 39, 2816-2817	1.3	2
13	Single-shot divergence measurements of a laser-generated relativistic electron beam. <i>Physics of Plasmas</i> , 2010 , 17, 113106	2.1	11
12	Divergence of laser-generated hot electrons generated in a cone geometry. <i>Journal of Physics: Conference Series</i> , 2010 , 244, 022064	0.3	
11	Hot electron generation and transport using K α emission. <i>Journal of Physics: Conference Series</i> , 2010 , 244, 022026	0.3	3
10	Al 1s-2p absorption spectroscopy of shock-wave heating and compression in laser-driven planar foil. <i>Physics of Plasmas</i> , 2009 , 16, 052702	2.1	17
9	Applied plasma spectroscopy: Laser-fusion experiments. <i>High Energy Density Physics</i> , 2009 , 5, 234-243	1.2	8
8	Compton scattering measurements from dense plasmas*. <i>Journal of Physics: Conference Series</i> , 2008 , 112, 032071	0.3	5
7	Diagnosing direct-drive, shock-heated, and compressed plastic planar foils with noncollective spectrally resolved x-ray scattering. <i>Physics of Plasmas</i> , 2007 , 14, 122703	2.1	35
6	Laser absorption, mass ablation rate, and shock heating in direct-drive inertial confinement fusion). <i>Physics of Plasmas</i> , 2007 , 14, 056305	2.1	20
5	Hot surface ionic line emission and cold K-inner shell emission from petawatt-laser-irradiated Cu foil targets. <i>Physics of Plasmas</i> , 2006 , 13, 043102	2.1	91
4	Measurement of carbon ionization balance in high-temperature plasma mixtures by temporally resolved X-ray scattering. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2006 , 99, 225-237	2.1	49
3	Direct-Drive Inertial Confinement Fusion Implosions on Omega. <i>Astrophysics and Space Science</i> , 2005 , 298, 227-233	1.6	2
2	Characterization of Brillouin-enhanced four-wave mixing for an application to space debris removal 1999 ,		4
1	Microbial Production of Ursodeoxycholic Acid from Lithocholic Acid by <i>Fusarium equiseti</i> M41. <i>Applied and Environmental Microbiology</i> , 1982 , 44, 1249-52	4.8	27

