

Hiroaki Nishimura

List of Publications by Citations

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100
papers

1,253
citations

21
h-index

33
g-index

104
ext. papers

1,398
ext. citations

2.6
avg, IF

3.09
L-index

#	Paper	IF	Citations
100	Opacity effect on extreme ultraviolet radiation from laser-produced tin plasmas. <i>Physical Review Letters</i> , 2005 , 95, 235004	7.4	119
99	Plasma physics and radiation hydrodynamics in developing an extreme ultraviolet light source for lithography). <i>Physics of Plasmas</i> , 2008 , 15, 056708	2.1	110
98	X-ray astronomy in the laboratory with a miniature compact object produced by laser-driven implosion. <i>Nature Physics</i> , 2009 , 5, 821-825	16.2	92
97	Properties of ion debris emitted from laser-produced mass-limited tin plasmas for extreme ultraviolet light source applications. <i>Applied Physics Letters</i> , 2005 , 87, 241503	3.4	68
96	Pure-tin microdroplets irradiated with double laser pulses for efficient and minimum-mass extreme-ultraviolet light source production. <i>Applied Physics Letters</i> , 2008 , 92, 241502	3.4	67
95	Low-density tin targets for efficient extreme ultraviolet light emission from laser-produced plasmas. <i>Applied Physics Letters</i> , 2006 , 88, 161501	3.4	55
94	Optimum laser pulse duration for efficient extreme ultraviolet light generation from laser-produced tin plasmas. <i>Applied Physics Letters</i> , 2006 , 89, 151501	3.4	54
93	Magnetized fast isochoric laser heating for efficient creation of ultra-high-energy-density states. <i>Nature Communications</i> , 2018 , 9, 3937	17.4	53
92	Hydrothermal method grown large-sized zinc oxide single crystal as fast scintillator for future extreme ultraviolet lithography. <i>Applied Physics Letters</i> , 2007 , 91, 231117	3.4	48
91	Line analysis of EUV Spectra from Molybdenum and Tungsten Injected with Impurity Pellets in LHD. <i>Plasma and Fusion Research</i> , 2007 , 2, S1060-S1060	0.5	36
90	Characterization of extreme ultraviolet emission using the fourth harmonic of a Nd:YAG laser. <i>Applied Physics Letters</i> , 2005 , 86, 181107	3.4	35
89	Titanium dioxide nanofiber-cotton targets for efficient multi-keV x-ray generation. <i>Applied Physics Letters</i> , 2008 , 93, 051505	3.4	32
88	Preparation of Low-Density Macrocellular Tin Dioxide Foam with Variable Window Size. <i>Chemistry of Materials</i> , 2005 , 17, 1115-1122	9.6	30
87	Hydrothermal-method-grown ZnO single crystal as fast EUV scintillator for future lithography. <i>Journal of Crystal Growth</i> , 2009 , 311, 875-877	1.6	26
86	Experimental evidence and theoretical analysis of photoionized plasma under x-ray radiation produced by an intense laser. <i>Physics of Plasmas</i> , 2008 , 15, 073108	2.1	25
85	Heating efficiency evaluation with mimicking plasma conditions of integrated fast-ignition experiment. <i>Physical Review E</i> , 2015 , 91, 063102	2.4	23
84	Temperature dependence of scintillation properties for a hydrothermal-method-grown zinc oxide crystal evaluated by nickel-like silver laser pulses. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2008 , 25, B118	1.7	23

83	Absolute evaluation of out-of-band radiation from laser-produced tin plasmas for extreme ultraviolet lithography. <i>Applied Physics Letters</i> , 2008 , 92, 111503	3.4	23
82	Fast ion acceleration in a foil plasma heated by a multi-picosecond high intensity laser. <i>Physics of Plasmas</i> , 2017 , 24, 073111	2.1	22
81	Integral cross section with magnetic sublevels and polarization degree of He-like Cl ions by electron impact. <i>Physical Review A</i> , 2007 , 75,	2.6	22
80	Angular distribution control of extreme ultraviolet radiation from laser-produced plasma by manipulating the nanostructure of low-density SnO ₂ targets. <i>Applied Physics Letters</i> , 2006 , 88, 094102	3.4	21
79	Neutral Debris Mitigation in Laser Produced Extreme Ultraviolet Light Source by the Use of Minimum-Mass Tin Target. <i>Applied Physics Express</i> , 2008 , 1, 056001	2.4	17
78	Elastic- and inelastic-scattering collision strengths between magnetic sublevels for electron impact on He-like Cu ions. <i>Physical Review A</i> , 2007 , 75,	2.6	14
77	High-Intensity Neutron Generation via Laser-Driven Photonuclear Reaction. <i>Plasma and Fusion Research</i> , 2015 , 10, 2404003-2404003	0.5	13
76	Correlation between laser absorption and radiation conversion efficiency in laser produced tin plasma. <i>Applied Physics Letters</i> , 2015 , 107, 121103	3.4	10
75	Characterization of Extreme UV Radiation from Laser Produced Spherical Tin Plasmas for Use in Lithography. <i>Journal of Plasma and Fusion Research</i> , 2004 , 80, 325-330		10
74	X-ray backlight measurement of preformed plasma by kJ-class petawatt LFEX laser. <i>Journal of Applied Physics</i> , 2012 , 112, 063301	2.5	9
73	Dry tin dioxide hollow microshells and extreme ultraviolet radiation induced by CO ₂ laser illumination. <i>Langmuir</i> , 2008 , 24, 10402-6	4	9
72	Electromagnetic field growth triggering super-ponderomotive electron acceleration during multi-picosecond laser-plasma interaction. <i>Communications Physics</i> , 2019 , 2,	5.4	8
71	Potential High-Spatial Resolution In-Situ Imaging of Soft X-Ray Laser Pulses With ZnO Crystal. <i>IEEE Transactions on Nuclear Science</i> , 2012 , 59, 2294-2297	1.7	8
70	Development of Compton X-ray spectrometer for high energy resolution single-shot high-flux hard X-ray spectroscopy. <i>Review of Scientific Instruments</i> , 2016 , 87, 043502	1.7	8
69	Control of unsteady laser-produced plasma-flow with a multiple-coil magnetic nozzle. <i>Scientific Reports</i> , 2017 , 7, 8910	4.9	7
68	Oriented and low-density tin dioxide film by sol-gel mineralizing tin-contained hydroxypropyl cellulose lyotropic liquid crystal for laser-induced extreme ultraviolet emission. <i>Journal of Polymer Science Part A</i> , 2009 , 47, 4566-4576	2.5	7
67	Fine Structures of Laser-Driven Punched-Out Tin Fuels Observed with Extreme Ultraviolet Backlight Imaging. <i>Japanese Journal of Applied Physics</i> , 2008 , 47, 293-296	1.4	7
66	Properties of EUV and particle generations from laser-irradiated solid- and low-density tin targets 2005 ,		7

65	Density and x-ray emission profile relationships in highly ionized high-Z laser-produced plasmas. <i>Applied Physics Letters</i> , 2015 , 106, 121109	3.4	6
64	Condition of MeV Electron Bunch Generated from Argon Gas-Jet Target in the Self-Modulated Laser Wakefield Regime. <i>Journal of the Physical Society of Japan</i> , 2011 , 80, 105001	1.5	6
63	High-space resolution imaging plate analysis of extreme ultraviolet (EUV) light from tin laser-produced plasmas. <i>Review of Scientific Instruments</i> , 2017 , 88, 033506	1.7	5
62	Impulse and mass removal rate of aluminum target by nanosecond laser ablation in a wide range of ambient pressure. <i>Journal of Applied Physics</i> , 2017 , 122, 233304	2.5	5
61	Accuracy evaluation of a Compton X-ray spectrometer with bremsstrahlung X-rays generated by a 6 MeV electron bunch. <i>Review of Scientific Instruments</i> , 2014 , 85, 11D634	1.7	5
60	Characteristic measurements of silicon dioxide aerogel plasmas generated in a Planckian radiation environment. <i>Physics of Plasmas</i> , 2010 , 17, 012701	2.1	5
59	Fast-Response and Low-Afterglow Cerium-Doped Lithium 6 Fluoro-Oxide Glass Scintillator for Laser Fusion-Originated Down-Scattered Neutron Detection. <i>IEEE Transactions on Nuclear Science</i> , 2012 , 59, 2256-2259	1.7	5
58	Properties of EUV emissions from laser-produced tin plasmas 2004 , 5374, 912		5
57	Improvement of Absorption and Hydrodynamic Efficiency by Using a Double-Foil Target with a Pinhole. <i>Journal of the Physical Society of Japan</i> , 1982 , 51, 280-285	1.5	5
56	Evaluation of Soft X-ray Laser with In situ Imaging Device of High Spatial Resolution ZnO Scintillator. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 122202	1.4	5
55	Direct evaluation of high neutron density environment using (n,2n) reaction induced by laser-driven neutron source. <i>Physical Review C</i> , 2021 , 104,	2.7	5
54	Spectroscopic observation of ablation plasma generated with a laser-driven extreme ultraviolet light source. <i>Applied Physics B: Lasers and Optics</i> , 2015 , 119, 421-425	1.9	4
53	The Measurement of Plasma Structure in a Magnetic Thrust Chamber. <i>Plasma and Fusion Research</i> , 2016 , 11, 3406012-3406012	0.5	4
52	Spatial Resolution Evaluation of ZnO Scintillator as an In-situ Imaging Device in EUV Region. <i>IEEE Transactions on Nuclear Science</i> , 2014 , 61, 462-466	1.7	4
51	Evaluation of Soft X-ray Laser with In situ Imaging Device of High Spatial Resolution ZnO Scintillator. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 122202	1.4	4
50	Tin-Polymer Composite on a Rotating Drum as a High Repetition Rate Laser Target for Extreme Ultraviolet Generation. <i>Fusion Science and Technology</i> , 2006 , 49, 691-694	1.1	4
49	Implosion experiments of gas-filled plastic-shell targets with [ell] = 1 drive nonuniformity at the Gekko-XII glass laser. <i>Laser and Particle Beams</i> , 2001 , 19, 267-284	0.9	4
48	Plasma calorimeter for absorption measurement of laser produced plasma. <i>Review of Scientific Instruments</i> , 1985 , 56, 1867-1869	1.7	4

47	Fabrication of the hollow SnO ₂ nanoparticles contained spheres as extreme ultraviolet (EUV) target. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010 , 358, 88-92	5.1	3
46	Dependence of EUV emission properties on laser wavelength 2004 ,		3
45	Absolute calibration of extreme ultraviolet optical components with an x-ray-induced fluorescence source. <i>Review of Scientific Instruments</i> , 2005 , 76, 113109	1.7	3
44	Temperature-Dependent EUV Spectra of Xenon Plasmas Observed in the Compact Helical System. <i>Journal of Plasma and Fusion Research</i> , 2005 , 81, 480-481		3
43	X-Ray Polarization Spectroscopy of He I Line Emission for Diagnosis of the Anisotropy of Hot Electrons. <i>Plasma and Fusion Research</i> , 2007 , 2, 013-013	0.5	3
42	Far-infrared-light shadowgraphy for high extraction efficiency of extreme ultraviolet light from a CO ₂ -laser-generated tin plasma. <i>Applied Physics Letters</i> , 2016 , 109, 051104	3.4	3
41	Efficient and Repetitive Neutron Generation by Double-Laser-Pulse Driven Photonuclear Reaction. <i>Plasma and Fusion Research</i> , 2018 , 13, 2404009-2404009	0.5	2
40	Hot Electron Spectra in Plain, Cone and Integrated Targets for FIREX-I using Electron Spectrometer. <i>Plasma and Fusion Research</i> , 2013 , 8, 2404125-2404125	0.5	2
39	Systematic Study on Ce:LuLiF ₄ as a Fast Scintillator Using Storage Ring Free-Electron Lasers. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 122602	1.4	2
38	Development of Bunching-Out Target to Generate Extreme Ultraviolet (EUV) Light. <i>Fusion Science and Technology</i> , 2007 , 51, 769-771	1.1	2
37	Development of Tin Droplet Target for 13.5 nm Lithography. <i>Plasma and Fusion Research</i> , 2006 , 1, 055-055	0.5	2
36	Two-Facing Irradiation of Laser Pulses to Suppress Position Shift of Expanded Tin Microsphere for Extreme Ultraviolet Light Source. <i>Applied Physics Express</i> , 2011 , 4, 056201	2.4	2
35	Soft X ray radiation confinement in laser fusion.. <i>Kakuyō Kenkyū</i> , 1990 , 63, 219-234		2
34	Spectral Sensitivity Calibration of a Back-Illuminated CCD Using a Laser-Plasma X-Ray Source.. <i>The Review of Laser Engineering</i> , 1998 , 26, 700-704	0	2
33	Laser Produced Plasma for EUV Light Source For Lithography. <i>The Review of Laser Engineering</i> , 2004 , 32, 330-336	0	2
32	Development of Extreme-Ultraviolet Light Source by Laser-Produced Plasma. <i>The Review of Laser Engineering</i> , 2008 , 36, 1125-1128	0	2
31	A laser-plasma-produced soft X-ray laser at 89 eV generates DNA double-strand breaks in human cancer cells. <i>Journal of Radiation Research</i> , 2015 , 56, 633-8	2.4	1
30	Thomson Scattering Measurement of Laser-Produced Plasma in a Magnetic Thrust Chamber. <i>Plasma and Fusion Research</i> , 2018 , 13, 1306016-1306016	0.5	1

29	Comparative and quantitative study of neutral debris emanated from tin plasmas produced by neodymium-doped yttrium-aluminum-garnet and carbon dioxide laser pulses. <i>Applied Physics Letters</i> , 2010 , 97, 111502	3.4	1
28	Development of focused laser plasma x-ray beam for radiobiological applications 2009 ,		1
27	Effect of Nd:YAG Laser Energy on Multilayer Hollow Nanofiber Target's Extreme Ultraviolet Conversion Efficiency. <i>Journal of Macromolecular Science - Physics</i> , 2011 , 50, 1761-1770	1.4	1
26	Monochromatic X-Ray Emission from Laser Produced Plasma with A Clean Ultra-Short Laser Pulse. <i>The Review of Laser Engineering</i> , 2010 , 38, 698-701	0	1
25	Monochromatic X-Ray Sampling Imager for Laser-Imploded Core Plasma Observation with Highly Spatial, Temporal, and Spectral Resolutions. <i>Plasma and Fusion Research</i> , 2007 , 2, S1017-S1017	0.5	1
24	Laser Production of Extreme Ultraviolet Light Source for the Next Generation Lithography Application. <i>Plasma and Fusion Research</i> , 2009 , 4, 048-048	0.5	1
23	Advanced Target Design for the FIREX-I Project. <i>Plasma and Fusion Research</i> , 2009 , 4, S1001-S1001	0.5	1
22	Progress of Advanced Fusion Energy Studies with Ultra-Intense Lasers.. <i>Journal of Plasma and Fusion Research</i> , 2002 , 78, 792-798		1
21	Laser Fusion Target Alignment by HARTMMANN Mask Method. <i>The Review of Laser Engineering</i> , 1978 , 6, 192-199	0	1
20	Energy Transportation by MeV Hot Electrons in Fast Ignition Plasma Driven with LFEX PW Laser. <i>Plasma and Fusion Research</i> , 2014 , 9, 1404118-1404118	0.5	
19	Application of Laser-Driven Monochromatic X-Ray to Radiobiology. <i>The Review of Laser Engineering</i> , 2010 , 38, 981-986	0	
18	High Power Laser Astrophysics. <i>The Review of Laser Engineering</i> , 2001 , 29, 82-83	0	
17	Time- and Space-Resolved Spectroscopic Imaging Diagnostics of Laser-Produced Plasmas X-Ray Monochromatic Framing Imager and Observation of Dynamical Temperature-Density Profiles of Laser Imploded Core Plasmas. <i>Journal of Plasma and Fusion Research</i> , 2003 , 79, 355-361		
16	Suppression of Rayleigh-Taylor Instability Using High-Z Doped Plastic Targets for Inertial Fusion Energy. <i>Journal of Plasma and Fusion Research</i> , 2004 , 80, 597-604		
15	Features of Radiation Hydrodynamics in LPP-EUV Light Source Plasmas. <i>The Review of Laser Engineering</i> , 2004 , 32, 769-778	0	
14	Present Status and Future Prospect of Highly Bright Radiation Sources by Laser-Produced Plasma. <i>IEEJ Transactions on Fundamentals and Materials</i> , 2006 , 126, 1195-1198	0.2	
13	Atomic Model and Optimization of EUV Light Source. <i>The Review of Laser Engineering</i> , 2008 , 36, 690-699	0	
12	Basic Research on EUV Source Development. <i>The Review of Laser Engineering</i> , 2008 , 36, 700-707	0	

- 11 Extreme Ultraviolet (EUV) Radiation from Punched-Out Target. *The Review of Laser Engineering*, **2008**, 36, 736-741 ○
- 10 ZnO as Fast Scintillators Evaluated with Ni-like Ag Laser. *The Review of Laser Engineering*, **2008**, 36, 1028-1030 ○
- 9 Time-Domain Spectroscopy of Solid by using EUV Laser. *The Review of Laser Engineering*, **2008**, 36, 77-78 ○
- 8 Preface to Special Issue on Laser Driven Neutron Sources and Applications. *The Review of Laser Engineering*, **2015**, 43, 70 ○
- 7 Neutron Generation by Laser-Driven Photonuclear Reaction. *The Review of Laser Engineering*, **2015**, 43, 98 ○
- 6 Development of Laser Plasma X-ray Microbeam Irradiation System and Radiation Biological Application. *IEEJ Transactions on Electronics, Information and Systems*, **2010**, 130, 1800-1805 ○.1
- 5 Electron Beam Controlled CO2 Laser. *The Review of Laser Engineering*, **1975**, 3, 96-103 ○
- 4 Report on CLEO/IQEC'86 II. *The Review of Laser Engineering*, **1986**, 14, 717-720 ○
- 3 Survey of the Laser Fusion. *The Review of Laser Engineering*, **1986**, 14, 1003-1017 ○
- 2 Indirect-drive Implosion by Lasers. *Kakuyō Kenkyū*, **1987**, 58, 255-264 ○
- 1 Note: A Laue crystal imager for high energy quasi-monochromatic x-ray. *Review of Scientific Instruments*, **2018**, 89, 096106 1.7