Noriaki Miyanaga

List of Publications by Year
in descending order

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291	7,245	76196	71532
papers	citations	40 h-index	76 g-index

292	292	292	3375
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fast heating of ultrahigh-density plasma as a step towards laser fusion ignition. Nature, 2001, 412, 798-802.	13.7	873
2	Random Phasing of High-Power Lasers for Uniform Target Acceleration and Plasma-Instability Suppression. Physical Review Letters, 1984, 53, 1057-1060.	2.9	637
3	Laguerre-Gaussian beam generated with a multilevel spiral phase plate for high intensity laser pulses. Optics Express, 2004, 12, 3548.	1.7	331
4	Scalings of implosion experiments for high neutron yield. Physics of Fluids, 1988, 31, 2884.	1.4	165
5	Opacity Effect on Extreme Ultraviolet Radiation from Laser-Produced Tin Plasmas. Physical Review Letters, 2005, 95, 235004.	2.9	146
6	Prepulse-Free Petawatt Laser for a Fast Ignitor. IEEE Journal of Quantum Electronics, 2004, 40, 281-293.	1.0	145
7	Plasma physics and radiation hydrodynamics in developing an extreme ultraviolet light source for lithography. Physics of Plasmas, 2008, 15, .	0.7	126
8	Studies of ultra-intense laser plasma interactions for fast ignition. Physics of Plasmas, 2000, 7, 2014-2022.	0.7	115
9	Optical properties and Faraday effect of ceramic terbium gallium garnet for a room temperature Faraday rotator. Optics Express, 2011, 19, 15181.	1.7	114
10	Measurements of Rayleigh-Taylor Growth Rate of Planar Targets Irradiated Directly by Partially Coherent Light. Physical Review Letters, 1997, 78, 250-253.	2.9	113
11	213 W average power of 24 GW pulsed thermally controlled Nd:glass zigzag slab laser with a stimulated Brillouin scattering mirror. Optics Letters, 2008, 33, 1711.	1.7	112
12	Characterization of extreme ultraviolet emission from laser-produced spherical tin plasma generated with multiple laser beams. Applied Physics Letters, 2005, 86, 051501.	1.5	108
13	Effect of pulse width and fluence of femtosecond laser on the size of nanobump array. Applied Surface Science, 2007, 253, 6555-6557.	3.1	93
14	Direct-drive hydrodynamic instability experiments on the GEKKO XII laser. Physics of Plasmas, 1997, 4, 4079-4089.	0.7	92
15	Pure-tin microdroplets irradiated with double laser pulses for efficient and minimum-mass extreme-ultraviolet light source production. Applied Physics Letters, 2008, 92, .	1.5	85
16	Properties of ion debris emitted from laser-produced mass-limited tin plasmas for extreme ultraviolet light source applications. Applied Physics Letters, 2005, 87, 241503.	1.5	82
17	Magnetized fast isochoric laser heating for efficient creation of ultra-high-energy-density states. Nature Communications, 2018, 9, 3937.	5.8	75
18	Spectrally dispersed amplified spontaneous emission for improving irradiation uniformity into high power Nd:glass laser system. Journal of Applied Physics, 1993, 73, 2122-2131.	1.1	73

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19	Fast ignitor research at the Institute of Laser Engineering, Osaka University. Physics of Plasmas, 2001, 8, 2268-2274.	0.7	72
20	10-kJ PW laser for the FIREX-I program. European Physical Journal Special Topics, 2006, 133, 81-87.	0.2	66
21	Optimum laser pulse duration for efficient extreme ultraviolet light generation from laser-produced tin plasmas. Applied Physics Letters, 2006, 89, 151501.	1.5	65
22	Low-density tin targets for efficient extreme ultraviolet light emission from laser-produced plasmas. Applied Physics Letters, 2006, 88, 161501.	1.5	63
23	Partially coherent light generated by using single and multimode optical fibers in a highâ€power Nd:glass laser system. Applied Physics Letters, 1993, 63, 580-582.	1.5	61
24	Experimental determination of fuel densityâ€radius product of inertial confinement fusion targets using secondary nuclear fusion reactions. Applied Physics Letters, 1986, 49, 555-557.	1.5	60
25	Total-reflection active-mirror laser with cryogenic Yb:YAG ceramics. Optics Letters, 2009, 34, 3439.	1.7	60
26	Solidâ€“liquidâ€“solid process for forming free-standing gold nanowhisker superlattice by interfering femtosecond laser irradiation. Applied Surface Science, 2013, 274, 27-32.	3.1	60
27	Dynamic Behavior of Rippled Shock Waves and Subsequently Induced Areal-Density-Perturbation Growth in Laser-Irradiated Foils. Physical Review Letters, 1995, 74, 3608-3611.	2.9	59
28	Spectroscopic Determination of Dynamic Plasma Gradients in Implosion Cores. Physical Review Letters, 2002, 88, 045002.	2.9	59
29	Basic and integrated studies for fast ignition. Physics of Plasmas, 2003, 10, 1925-1930.	0.7	58
30	Comprehensive Diagnosis of Growth Rates of the Ablative Rayleigh-Taylor Instability. Physical Review Letters, 2007, 98, 045002.	2.9	58
31	High-energy, high-contrast, multiterawatt laser pulses by optical parametric chirped-pulse amplification. Optics Letters, 2007, 32, 2315.	1.7	58
32	Laser Implosion of High-Aspect-Ratio Targets Produces Thermonuclear Neutron Yields Exceeding1012by Use of Shock Multiplexing. Physical Review Letters, 1986, 56, 1575-1578.	2.9	56
33	Fast ignition integrated experiments with Gekko and LFEX lasers. Plasma Physics and Controlled Fusion, 2011, 53, 124029.	0.9	55
34	Plasma physics and laser development for the Fast-Ignition Realization Experiment (FIREX) Project. Nuclear Fusion, 2009, 49, 104024.	1.6	45
35	Temporal contrast enhancement of petawatt-class laser pulses. Optics Letters, 2012, 37, 3363.	1.7	44
36	Liquidly process in femtosecond laser processing. Applied Surface Science, 2009, 255, 9761-9763.	3.1	43

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37	Influence of laser scanning conditions on CFRP processing with a pulsed fiber laser. Journal of Materials Processing Technology, 2015, 222, 110-121.	3.1	43
38	Two-dimensional sampling-image x-ray streak camera for ultrafast imaging of inertial confinement fusion plasmas. Review of Scientific Instruments, 1999, 70, 620-623.	0.6	41
39	Two-Dimensional Multi-Lens Array with Circular Aperture Spherical Lens for Flat-Top Irradiation of Inertial Confinement Fusion Target. Optical Review, 2000, 7, 216-220.	1.2	41
40	Three-directional spectral dispersion for smoothing of a laser irradiance profile. Optics Letters, 2002, 27, 725.	1.7	40
41	High-energy-density plasmas generation on GEKKO-LFEX laser facility for fast-ignition laser fusion studies and laboratory astrophysics. Plasma Physics and Controlled Fusion, 2012, 54, 124042.	0.9	40
42	Characterization of density profile of laser-produced Sn plasma for 13.5nm extreme ultraviolet source. Applied Physics Letters, 2005, 86, 201501.	1.5	39
43	Spectroscopic study of debris mitigation with minimum-mass Sn laser plasma for extreme ultraviolet lithography. Applied Physics Letters, 2006, 88, 171503.	1.5	38
44	Electron bunch trapping and compression by an intense focused pulse laser. Physical Review E, 2004, 69, 056502.	0.8	37
45	High thermonuclear neutron yield by shock multiplexing implosion with GEKKO XII green laser. Nuclear Fusion, 1987, 27, 19-30.	1.6	36
46	Intense longitudinal electric fields generated from transverse electromagnetic waves. Applied Physics Letters, 2004, 84, 3855-3857.	1.5	36
47	Fast plasma heating in a cone-attached geometryâ€"towards fusion ignition. Nuclear Fusion, 2004, 44, S276-S283.	1.6	36
48	Pulse compression and beam focusing with segmented diffraction gratings in a high-power chirped-pulse amplification glass laser system. Optics Letters, 2010, 35, 1783.	1.7	36
49	Model for Cannonball-Like Acceleration of Laser-Irradiated Targets. Japanese Journal of Applied Physics, 1981, 20, L477-L480.	0.8	35
50	Electron bunch acceleration and trapping by the ponderomotive force of an intense short-pulse laser. Physics of Plasmas, 2003, 10, 4605-4608.	0.7	35
51	Recent progress of implosion experiments with uniformityâ€improved GEKKO XII laser facility at the Institute of Laser Engineering, Osaka University. Physics of Plasmas, 1996, 3, 2077-2083.	0.7	34
52	High Power Lasers and Their New Applications. Journal of the Optical Society of Korea, 2008, 12, 178-185.	0.6	34
53	Monochromatic imaging and angular distribution measurements of extreme ultraviolet light from laser-produced Sn and SnO2 plasmas. Applied Physics Letters, 2004, 85, 1919-1921.	1.5	33
54	Electron bunch acceleration and trapping by ponderomotive force of an intense short-pulse laser. Laser and Particle Beams, 2005, 23, .	0.4	33

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55	Preparation of Low-Density Macrocellular Tin Dioxide Foam with Variable Window Size. Chemistry of Materials, 2005, 17, 1115-1122.	3.2	33
56	Mesoscopic nanomaterials generated by interfering femtosecond laser processing. Applied Physics A: Materials Science and Processing, 2010, 101, 471-474.	1.1	32
57	Absolute evaluation of out-of-band radiation from laser-produced tin plasmas for extreme ultraviolet lithography. Applied Physics Letters, 2008, 92, .	1.5	31
58	Indirect-direct hybrid target experiments with the GEKKO XII laser. Nuclear Fusion, 2000, 40, 547-556.	1.6	30
59	Ultrahigh-contrast kilojoule-class petawatt LFEX laser using a plasma mirror. Applied Optics, 2016, 55, 6850.	2.1	30
60	Ultrafast two-dimensional x-ray imaging with x-ray streak cameras for laser fusion research (invited). Review of Scientific Instruments, 1997, 68, 745-749.	0.6	29
61	Measurement of D-D burn region using proton penumbral coded aperture imaging. Optics Communications, 1989, 73, 337-341.	1.0	28
62	Zig-zag active-mirror laser with cryogenic Yb^3+:YAG/YAG composite ceramics. Optics Express, 2011, 19, 2448.	1.7	28
63	Interferometric phase shift compensation technique for high-power, tiled-aperture coherent beam combination. Optics Letters, 2013, 38, 1277.	1.7	28
64	Ion diffusion at the bonding interface of undoped YAG/Yb:YAG composite ceramics. Optical Materials, 2015, 46, 542-547.	1.7	28
65	Present status of fast ignition realization experiment and inertial fusion energy development. Nuclear Fusion, 2013, 53, 104021.	1.6	27
66	Temperature dependence of optical properties in Nd/Cr:YAG materials. Journal of Luminescence, 2014, 148, 342-346.	1.5	27
67	Angular distribution control of extreme ultraviolet radiation from laser-produced plasma by manipulating the nanostructure of low-density SnO2 targets. Applied Physics Letters, 2006, 88, 094102.	1.5	26
68	Suppression of speckle contrast by using polarization property on second harmonic generation. Optics Communications, 1993, 103, 185-188.	1.0	25
69	Areal Density Measurement of Imploded Cryogenic Target by Energy Peak Shift of DD-Produced Protons. Physical Review Letters, 1995, 75, 3130-3133.	2.9	25
70	Photo-reflection and laser-ablation properties of phthalocyanine/perylene derivative bilayer. Synthetic Metals, 2001, 121, 1445-1446.	2.1	25
71	The Current Trends in SBS and phase conjugation. Laser and Particle Beams, 2012, 30, 117-174.	0.4	25
72	ASE and parasitic lasing in thin disk laser with anti-ASE cap. Optics Express, 2013, 21, 13118.	1.7	25

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73	Study of Fuel-Pusher Mixing in Laser-Driven Implosions, Using Secondary Nuclear Fusion Reactions. Physical Review Letters, 1987, 59, 2635-2638.	2.9	24
74	Kinetic effects of electron thermal conduction on implosion hydrodynamics. Physics of Fluids B, 1992, 4, 417-422.	1.7	24
75	New insights into the laser produced electronâ€“positron pairs. New Journal of Physics, 2013, 15, 065010.	1.2	24
76	Uniform laser ablation via photovoltaic effect of phthalocyanine/perylene derivative. Applied Surface Science, 2002, 197-198, 808-813.	3.1	23
77	Neutral Debris Mitigation in Laser Produced Extreme Ultraviolet Light Source by the Use of Minimum-Mass Tin Target. Applied Physics Express, 2008, 1, 056001.	1.1	23
78	Generation of sub-7-cycle optical pulses from a mode-locked ytterbium-doped single-mode fiber oscillator pumped by polarization-combined 915Ânm laser diodes. Optics Letters, 2012, 37, 3972.	1.7	23
79	Output characteristics of high power cryogenic Yb:YAG TRAM laser oscillator. Optics Express, 2012, 20, 21739.	1.7	23
80	Heating efficiency evaluation with mimicking plasma conditions of integrated fast-ignition experiment. Physical Review E, 2015, 91, 063102.	0.8	23
81	High-Intensity Neutron Generation via Laser-Driven Photonuclear Reaction. Plasma and Fusion Research, 2015, 10, 2404003-2404003.	0.3	23
82	Radiochemistry and secondary reactions for the diagnostics of laserâ€driven fusion plasmas. Review of Scientific Instruments, 1986, 57, 1731-1733.	0.6	22
83	Integrated experiments of fast ignition targets by Gekko-XII and LFEX lasers. High Energy Density Physics, 2012, 8, 227-230.	0.4	22
84	600â€‰â€‰W green and 300â€‰â€‰W UV light generated from an eight-beam, sub-nanosecond fiber laser system. Optics Letters, 2017, 42, 3255.	1.7	22
85	Frequency modulation controlled by cross-phase modulation in optical fiber. Optics Letters, 1997, 22, 25.	1.7	21
86	Designing of interference pattern in ultra-short pulse laser processing. Applied Physics A: Materials Science and Processing, 2013, 112, 191-196.	1.1	21
87	Three-dimensional reconstruction of laser-irradiated targets using URA coded aperture cameras. Optics Communications, 1989, 71, 249-255.	1.0	20
88	Energetic Proton Generation in a Thin Plastic Foil Irradiated by Intense Femtosecond Lasers. Journal of Nuclear Science and Technology, 2002, 39, 1-5.	0.7	20
89	Characterization of out-of-band radiation and plasma parameters in laser-produced Sn plasmas for extreme ultraviolet lithography light sources. Journal of Applied Physics, 2008, 104, .	1.1	20
90	Design of interference using coherent beams configured as a six-sided pyramid. Applied Optics, 2012, 51, 5004.	0.9	20

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91	Nanodot array deposition via single shot laser interference pattern using laser-induced forward transfer. International Journal of Extreme Manufacturing, 2020, 2, 025101.	6.3	20
92	Split-aperture laser pulse compressor design tolerant to alignment and line-density differences. Optics Letters, 2008, 33, 1902.	1.7	19
93	High efficiency 125 J second-harmonic generation from CsLiB_6O_10 nonlinear crystal by diode-pumped Nd:glass laser. Optics Express, 2013, 21, 8393.	1.7	19
94	Cryogenic deuterium target experiments with the GEKKO XII, green laser system. Physics of Plasmas, 1995, 2, 2495-2503.	0.7	18
95	Progress and perspectives of fast ignition. Plasma Physics and Controlled Fusion, 2004, 46, B41-B49.	0.9	18
96	Dynamic imaging of 13.5 nm extreme ultraviolet emission from laser-produced Sn plasmas. Applied Physics Letters, 2005, 87, 241502.	1.5	18
97	84 dB amplification, 046 J in a 10 Hz output diode-pumped Nd:YLF ring amplifier with phase-conjugated wavefront corrector. Optics Express, 2010, 18, 13927.	1.7	18
98	Experimental demonstration of spatially coherent beam combining using optical parametric amplification. Optics Express, 2010, 18, 14541.	1.7	18
99	Conceptual design of sub-exa-watt system by using optical parametric chirped pulse amplification. Journal of Physics: Conference Series, 2016, 688, 012044.	0.3	17
100	Fabricating a regular hexagonal lattice structure by interference pattern of six femtosecond laser beams. Applied Surface Science, 2017, 417, 69-72.	3.1	17
101	Pointâ€source xâ€ray backlighting for highâ€density plasma diagnostics. Applied Physics Letters, 1983, 42, 160-162.	1.5	16
102	Template free synthesis of free-standing silver nanowhisker and nanocrown superlattice by interfering femtosecond laser irradiation. Japanese Journal of Applied Physics, 2014, 53, 096701.	0.8	16
103	Suppression of photo-darkening effect in Yb-doped silica glass fiber by co-doping of group 2 element. Journal of Non-Crystalline Solids, 2016, 440, 85-89.	1.5	16
104	High-average-power green laser using Nd:YAG amplifier with stimulated Brillouin scattering phase-conjugate pulse-cleaning mirror. Optics Express, 2016, 24, 12557.	1.7	16
105	Fuel areal density measurement of laserâ€imploded targets by use of elastically scattered protons. Applied Physics Letters, 1989, 54, 1308-1310.	1.5	15
106	Recent progress in laser fusion research at Osaka University: Uniformity and stability issues*. Physics of Plasmas, 1994, 1, 1653-1661.	0.7	15
107	MoirÃ© interferometry of short wavelength Rayleighâ€“Taylor growth. Review of Scientific Instruments, 1999, 70, 637-641.	0.6	15
108	Single spatial mode experiments on initial laser imprint on direct-driven planar targets. Physics of Plasmas, 2002, 9, 1734-1744.	0.7	15

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109	The HALNA project: Diode-pumped solid-state laser for inertial fusion energy. European Physical Journal Special Topics, 2006, 133, 615-620.	0.2	15
110	Ultrabroadband noncollinear optical parametric amplification with LBO crystal. Optics Express, 2008, 16, 18863.	1.7	15
111	Sub-15fs ultraviolet pulses generated by achromatic phase-matching sum-frequency mixing. Optics Express, 2009, 17, 17711.	1.7	15
112	Utilization of the high spatial-frequency component in adaptive beam shaping by using a virtual diagonal phase grating. Scientific Reports, 2019, 9, 4640.	1.6	15
113	Fast heating of super-solid density plasmas towards laser fusion ignition. Plasma Physics and Controlled Fusion, 2002, 44, B109-B119.	0.9	14
114	Temporal evolution of temperature and density profiles of a laser compressed core (invited). Review of Scientific Instruments, 2003, 74, 1683-1687.	0.6	14
115	Temporally resolved Schwarzschild microscope for the characterization of extreme ultraviolet emission in laser-produced plasmas. Review of Scientific Instruments, 2004, 75, 5173-5176.	0.6	14
116	High efficiency and high energy parametric wavelength conversion using a large aperture periodically poled MgO:LiNbO3. Optics Communications, 2008, 281, 3902-3905.	1.0	14
117	Partially deuterated potassium dihydrogen phosphate optimized for ultra-broadband optical parametric amplification. Journal of Applied Physics, 2015, 117, 093103.	1.1	14
118	Parallel fabrication of spiral surface structures by interference pattern of circularly polarized beams. Scientific Reports, 2018, 8, 13448.	1.6	14
119	Laser-Induced Transfer of Noble Metal Nanodots with Femtosecond Laser-Interference Processing. Nanomaterials, 2021, 11, 305.	1.9	14
120	Efficient Spherical Compression of Cannonball Targets with 1.052-Âµm Laser Beams. Japanese Journal of Applied Physics, 1983, 22, L551-L553.	0.8	13
121	Multiple Inner-Shell Vacancies in Laser-Irradiated Au Plasma. Physical Review Letters, 1985, 54, 1999-2002.	2.9	13
122	Thermonuclear burn time and duration in laserâ€driven highâ€aspectâ€ratio targets. Applied Physics Letters, 1989, 55, 945-947.	1.5	13
123	Threeâ€dimensional imaging of laser imploded targets. Journal of Applied Physics, 1990, 68, 1483-1488.	1.1	13
124	Time-resolved, two-dimensional electron-temperature distribution of laser-imploded core plasmas. Review of Scientific Instruments, 1997, 68, 820-823.	0.6	13
125	Time-resolved two-dimensional monochromatic imaging of laser-imploded plasma. Review of Scientific Instruments, 1997, 68, 817-819.	0.6	13
126	Beam shaping by spatial light modulator and 4f system to square and top-flat for interference laser processing. Proceedings of SPIE, 2017, , .	0.8	13

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127	Imprint reduction in a plasma layer preformed with x-ray irradiation. Physics of Plasmas, 2002, 9, 1381-1391.	0.7	12
128	Dispersion compensation in an Yb-doped fiber oscillator for generating transform-limited, wing-free pulses. Optics Express, 2011, 19, 25199.	1.7	12
129	Ultrafast Time-Resolved Pumpâ€“Probe Spectroscopy of PYP by a Sub-8 fs Pulse Laser at 400 nm. Journal of Physical Chemistry B, 2013, 117, 4818-4826.	1.2	12
130	Scattering pulse-induced temporal contrast degradation in chirped-pulse amplification lasers. Optics Express, 2017, 25, 21201.	1.7	12
131	Xâ€ray and radioactive measurements in ICF research at ILE Osaka (invited). Review of Scientific Instruments, 1985, 56, 1128-1132.	0.6	11
132	One- and two-dimensional fast x-ray imaging of laser-driven implosion dynamics with x-ray streak cameras. Review of Scientific Instruments, 1997, 68, 828-830.	0.6	11
133	Development of wide-field, multi-imaging x-ray streak camera technique with increased image-sampling arrays. Review of Scientific Instruments, 2001, 72, 755-758.	0.6	11
134	Intelligent Target Materials to Control Laser Ablation. Fusion Science and Technology, 2002, 41, 257-260.	0.6	11
135	Recent results and future prospects of laser fusion research at ILE, Osaka. European Physical Journal D, 2007, 44, 259-264.	0.6	11
136	Characteristics of uraniumâ€oxide cathode for neutron streak camera. Review of Scientific Instruments, 1986, 57, 1743-1745.	0.6	10
137	Direct areal density measurement by activation technique for plastic hollow shell implosion experiments. Applied Physics Letters, 1989, 55, 2072-2074.	1.5	10
138	Present states and future prospect of fast ignition realization experiment (FIREX) with Gekko and LFEX Lasers at ILE. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 653, 84-88.	0.7	10
139	X-ray backlight measurement of preformed plasma by kJ-class petawatt LFEX laser. Journal of Applied Physics, 2012, 112, 063301.	1.1	10
140	Characterization of Extreme UV Radiation from Laser Produced Spherical Tin Plasmas for Use in Lithography. Journal of Plasma and Fusion Research, 2004, 80, 325-330.	0.4	10
141	Generation of Vector Beams with Axially-Symmetric Polarization. The Review of Laser Engineering, 2004, 32, 259-264.	0.0	10
142	X-ray refraction effect and density determination of steep-gradient, high-density plasma. Optics Communications, 1982, 44, 48-52.	1.0	9
143	Speckle suppression of laser light using liquid crystals aligned by photoisomerization of dye molecules. Applied Physics Letters, 2002, 81, 5111-5113.	1.5	9
144	Properties of EUV and particle generations from laser-irradiated solid- and low-density tin targets. , 2005, , .		9

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145	Energy spectra and charge states of debris emitted from laser-produced minimum mass tin plasmas. , 2006, 6151, 1051.		9
146	Dry Tin Dioxide Hollow Microshells and Extreme Ultraviolet Radiation Induced by CO₂ Laser Illumination. Langmuir, 2008, 24, 10402-10406.	1.6	9
147	Nano-structured lithium-tin plane fabrication for laser produced plasma and extreme ultraviolet generation. Laser and Particle Beams, 2008, 26, 497-501.	0.4	9
148	Temperature-dependent fluorescence decay and energy transfer in Nd/Cr:YAG ceramics. Optical Materials, 2019, 90, 215-219.	1.7	9
149	Energetic Proton Generation in a Thin Plastic Foil Irradiated by Intense Femtosecond Lasers. , 0, .		9
150	Calibration of neutron detector response to 2.45 MeV neutrons based on 3.02 MeV proton tracks in CR39. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1987, 254, 135-138.	0.7	8
151	Neutron penumbral imaging at Gekko XII (abstract). Review of Scientific Instruments, 1990, 61, 3230-3230.	0.6	8
152	Time- and space-resolved X-ray spectroscopic measurements of hot dense plasma created with laser driven implosions. Journal of Quantitative Spectroscopy and Radiative Transfer, 1997, 58, 585-596.	1.1	8
153	Effect of interference pattern on femtosecond laser-induced ripple structure. Applied Physics A: Materials Science and Processing, 2010, 98, 401-405.	1.1	8
154	Organized metamaterials comprised of gold nanoneedles in a lattice generated on silicon (100) wafer substrates by interfering femtosecond laser processing. Applied Physics A: Materials Science and Processing, 2013, 112, 173-177.	1.1	8
155	Intensity dependence of classical and collective absorption processes in laser produced plasmas at 1.053 Î¼m and 0.527 Î¼m. IEEE Transactions on Plasma Science, 1982, 10, 55-58.	0.6	7
156	Double-Shell-Target Implosion by Four Beams from the GEKKO IV Laser System. Physical Review Letters, 1983, 51, 570-573.	2.9	7
157	Suppression of the Rayleighâ€“Taylor instability and its implication for the impact ignition. Plasma Physics and Controlled Fusion, 2004, 46, B245-B254.	0.9	7
158	Fine Structures of Laser-Driven Punched-Out Tin Fuels Observed with Extreme Ultraviolet Backlight Imaging. Japanese Journal of Applied Physics, 2008, 47, 293-296.	0.8	7
159	Nano-structured surfaces on Niâ€“Ti generated by multiple shots of interfering femtosecond laser. Optics and Lasers in Engineering, 2009, 47, 847-849.	2.0	7
160	Oriented and lowâ€density tin dioxide film by solâ€“gel mineralizing tinâ€contained hydroxypropyl cellulose lyotropic liquid crystal for laserâ€induced extreme ultraviolet emission. Journal of Polymer Science Part A, 2009, 47, 4566-4576.	2.5	7
161	Generation of subpicosecond vacuum ultraviolet pulses at 126nm by using harmonics of a subpicosecond Ti:Sapphire laser. Optics Communications, 2010, 283, 414-416.	1.0	7
162	Amplification characteristics of a cryogenic Yb3+:YAG total-reflection active-mirror laser. Applied Optics, 2014, 53, 1964.	0.9	7

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163	Sub-micron period metal lattices fabricated by interfering ultraviolet femtosecond laser processing. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	7
164	Development of xâ€ray emission computed tomography for ICF research. Review of Scientific Instruments, 1990, 61, 2783-2785.	0.6	6
165	Gated neutron streak camera with a uranium cathode. Review of Scientific Instruments, 1990, 61, 3592-3595.	0.6	6
166	Three dimensional imaging of laser-imploded targets using X-ray computed tomography technique. IEEE Transactions on Nuclear Science, 1997, 44, 890-893.	1.2	6
167	Debris-Free High-Speed Laser-Assisted Low-Stress Dicing for Multi-Layered MEMS. IEEJ Transactions on Sensors and Micromachines, 2009, 129, 63-68.	0.0	6
168	Interfering Ultraviolet Femtosecond Laser Processing of Gold Thin Film and Prospect of Shortest Period. Applied Physics Express, 2012, 5, 102703.	1.1	6
169	Heat treatment of transparent Yb:YAG and YAG ceramics and its influence on laser performance. Optical Materials, 2018, 79, 353-357.	1.7	6
170	Room-temperature bonding with post-heat treatment for composite Yb:YAG ceramic lasers. Optical Materials, 2019, 91, 344-348.	1.7	6
171	Formation of Initial Perturbation of Rayleighâ€Taylor Instability in Supernovae and Laserâ€irradiated Targetsâ€”Is There Any Similarity?. Astrophysical Journal, Supplement Series, 2000, 127, 219-225.	3.0	6
172	Demonstration of a photonic crystal surface-emitting laser pumped Yb:YAG laser. Optics Letters, 2016, 41, 4653.	1.7	6
173	Experimental studies on debris collection for radiochemistry in inertial confinement fusion. Review of Scientific Instruments, 1990, 61, 2623-2627.	0.6	5
174	Xâ€ray and particle diagnostics of a highâ€density plasma by laser implosion (invited). Review of Scientific Instruments, 1990, 61, 3235-3240.	0.6	5
175	Fiber scintillator/streak camera detector for burn history measurement in inertial confinement fusion experiment. Review of Scientific Instruments, 1997, 68, 621-623.	0.6	5
176	Analysis of Spherical Target Illumination with Partially Coherent Light through Random Phase Plate. Japanese Journal of Applied Physics, 1998, 37, 5560-5568.	0.8	5
177	Rippled shock propagation and hydrodynamic perturbation growth in laser implosion. Journal of Materials Processing Technology, 1999, 85, 34-38.	3.1	5
178	Properties of EUV emissions from laser-produced tin plasmas. , 2004, 5374, 912.		5
179	Control of spatial polarization by use of a liquid crystal with an optically treated alignment layer and its application to beam apodization. Applied Optics, 2005, 44, 3752.	2.1	5
180	Quantitative measurement of hard X-ray spectra from laser-driven fast ignition plasma. High Energy Density Physics, 2013, 9, 435-438.	0.4	5

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