Mitsuo Nakai

List of Publications by Year
in descending order

248 papers	4,120 citations	136950 32 h-index	155660 55 g-index
251 all docs	251 docs citations	251 times ranked	1941 citing authors

#	Article	IF	Citations
1	Fast heating scalable to laser fusion ignition. Nature, 2002, 418, 933-934.	27.8	445
2	Scalings of implosion experiments for high neutron yield. Physics of Fluids, 1988, 31, 2884.	1.4	165
3	Opacity Effect on Extreme Ultraviolet Radiation from Laser-Produced Tin Plasmas. Physical Review Letters, 2005, 95, 235004.	7.8	146
4	High-density compression experiments at ILE, Osaka. Laser and Particle Beams, 1991, 9, 193-207.	1.0	139
5	Measurements of Rayleigh-Taylor Growth Rate of Planar Targets Irradiated Directly by Partially Coherent Light. Physical Review Letters, 1997, 78, 250-253.	7.8	113
6	High-order harmonics of 248.6-nm KrF laser from helium and neon ions. Physical Review A, 1996, 53, R31-R34.	2.5	109
7	Characterization of extreme ultraviolet emission from laser-produced spherical tin plasma generated with multiple laser beams. Applied Physics Letters, 2005, 86, 051501.	3.3	108
8	Direct-drive hydrodynamic instability experiments on the GEKKO XII laser. Physics of Plasmas, 1997, 4, 4079-4089.	1.9	92
9	Magnetized fast isochoric laser heating for efficient creation of ultra-high-energy-density states. Nature Communications, 2018, 9, 3937.	12.8	75
10	Suppression of the Rayleigh-Taylor Instability due to Self-Radiation in a Multiablation Target. Physical Review Letters, 2004, 92, 195001.	7.8	74
11	Boosting laser-ion acceleration with multi-picosecond pulses. Scientific Reports, 2017, 7, 42451.	3.3	71
12	Dynamic Behavior of Rippled Shock Waves and Subsequently Induced Areal-Density-Perturbation Growth in Laser-Irradiated Foils. Physical Review Letters, 1995, 74, 3608-3611.	7.8	59
13	Comprehensive Diagnosis of Growth Rates of the Ablative Rayleigh-Taylor Instability. Physical Review Letters, 2007, 98, 045002.	7.8	58
14	Laser Implosion of High-Aspect-Ratio Targets Produces Thermonuclear Neutron Yields Exceeding1012by Use of Shock Multiplexing. Physical Review Letters, 1986, 56, 1575-1578.	7.8	56
15	Fast ignition integrated experiments with Gekko and LFEX lasers. Plasma Physics and Controlled Fusion, 2011, 53, 124029.	2.1	55
16	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
17	Ablative Rayleigh-Taylor Instability at Short Wavelengths Observed with MoirÃ© Interferometry. Physical Review Letters, 2002, 88, 145003.	7.8	53
18	Hugoniot measurement of diamond under laser shock compression up to 2TPa. Physics of Plasmas, 2006, 13, 052705.	1.9	53

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19	Shock Hugoniot and temperature data for polystyrene obtained with quartz standard. Physics of Plasmas, 2009, 16, .	1.9	46
20	Plasma physics and laser development for the Fast-Ignition Realization Experiment (FIREX) Project. Nuclear Fusion, 2009, 49, 104024.	3.5	45
21	Experimental Evidence of Impact Ignition: 100-Fold Increase of Neutron Yield by Impactor Collision. Physical Review Letters, 2009, 102, 235002.	7.8	45
22	Multiframe xâ€ray imaging system for temporally and spatially resolved measurements of imploding inertial confinement fusion targets. Review of Scientific Instruments, 1991, 62, 124-129.	1.3	44
23	Pr3+-doped fluoro-oxide lithium glass as scintillator for nuclear fusion diagnostics. Review of Scientific Instruments, 2009, 80, 113504.	1.3	41
24	Characterization of density profile of laser-produced Sn plasma for 13.5nm extreme ultraviolet source. Applied Physics Letters, 2005, 86, 201501.	3.3	39
25	GEKKO/HIPER-driven shock waves and equation-of-state measurements at ultrahigh pressures. Physics of Plasmas, 2004, 11, 1600-1608.	1.9	38
26	First observation of density profile in directly laser-driven polystyrene targets for ablative Rayleighâ€"Taylor instability research. Physics of Plasmas, 2003, 10, 4784-4789.	1.9	36
27	Fast plasma heating in a cone-attached geometryâ€"towards fusion ignition. Nuclear Fusion, 2004, 44, S276-S283.	3.5	36
28	Laser-shock compression and Hugoniot measurements of liquid hydrogen to 55 GPa. Physical Review B, 2011, 83, .	3.2	35
29	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.	1.9	34
30	Equation-of-state measurements of polyimide at pressures up to 5.8 TPa using low-density foam with laser-driven shock waves. Physical Review E, 2003, 67, 056406.	2.1	34
31	Foam materials for cryogenic targets of fast ignition realization experiment (FIREX). Nuclear Fusion, 2005, 45, 1277-1283.	3.5	34
32	Development of x-ray radiography for high energy density physics. Physics of Plasmas, 2014, 21, .	1.9	34
33	Fabrication of aerogel capsule, bromine-doped capsule, and modified gold cone in modified target for the Fast Ignition Realization Experiment (FIREX) Project. Nuclear Fusion, 2009, 49, 095028.	3.5	32
34	Indirect-direct hybrid target experiments with the GEKKO XII laser. Nuclear Fusion, 2000, 40, 547-556.	3.5	30
35	Ultrahigh-contrast kilojoule-class petawatt LFEX laser using a plasma mirror. Applied Optics, 2016, 55, 6850.	2.1	30
36	Time-resolved ten-channel monochromatic imaging of inertial confinement fusion plasmas. Applied Optics, 2000, 39, 5865.	2.1	29

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37	Suppression of Rayleighâ€"Taylor instability due to radiative ablation in brominated plastic targets. Physics of Plasmas, 2004, 11, 2814-2822.	1.9	29
38	Proof-of-principle experiment for laser-driven cold neutron source. Scientific Reports, 2020, 10, 20157.	3.3	28
39	Ultrathin amorphization of single-crystal silicon by ultraviolet femtosecond laser pulse irradiation. Journal of Applied Physics, 2009, 105, .	2.5	27
40	Present status of fast ignition realization experiment and inertial fusion energy development. Nuclear Fusion, 2013, 53, 104021.	3.5	27
41	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.	3.3	26
42	Petapascal Pressure Driven by Fast Isochoric Heating with a Multipicosecond Intense Laser Pulse. Physical Review Letters, 2020, 124, 035001.	7.8	26
43	Areal Density Measurement of Imploded Cryogenic Target by Energy Peak Shift of DD-Produced Protons. Physical Review Letters, 1995, 75, 3130-3133.	7.8	25
44	Towards realization of hyper-velocities for impact fast ignition. Plasma Physics and Controlled Fusion, 2005, 47, B815-B822.	2.1	25
45	Petawatt-laser direct heating of uniformly imploded deuterated-polystyrene shell target. Physical Review E, 2005, 71, 016403.	2.1	24
46	Equation-of-state measurements for polystyrene at multi-TPa pressures in laser direct-drive experiments. Physics of Plasmas, 2005, 12, 124503.	1.9	24
47	New insights into the laser produced electronâ€"positron pairs. New Journal of Physics, 2013, 15, 065010.	2.9	24
48	Heating efficiency evaluation with mimicking plasma conditions of integrated fast-ignition experiment. Physical Review E, 2015, 91, 063102.	2.1	23
49	High-Intensity Neutron Generation via Laser-Driven Photonuclear Reaction. Plasma and Fusion Research, 2015, 10, 2404003-2404003.	0.7	23
50	Hydrodynamic instability in an ablatively imploded target irradiated by high power green lasers. Physics of Fluids, 1988, 31, 2875.	1.4	22
51	Present Status of Fast Ignition Research and Prospects of FIREX Project. Fusion Science and Technology, 2005, 47, 662-666.	1.1	22
52	Electrochemical Fabrication of Low Density Metal Foam with Mono-Dispersed-Sized Micro- and Submicro-Meter Pore. Fusion Science and Technology, 2006, 49, 686-690.	1.1	22
53	Integrated experiments of fast ignition targets by Gekko-XII and LFEX lasers. High Energy Density Physics, 2012, 8, 227-230.	1.5	22
54	Feed-out of Rear Surface Perturbation due to Rarefaction Wave in Laser-Irradiated Targets. Physical Review Letters, 2000, 84, 5331-5334.	7.8	21

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55	Low-Density-Plastic-Foam Capsule of Resorcinol/Formalin and (Phloroglucinolcarboxylic) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 7 Japanese Journal of Applied Physics, 2006, 45, L335-L338.	1.5	20
56	Reduction of the Rayleigh-Taylor instability growth with cocktail color irradiation. Physics of Plasmas, 2007, 14, 122702.	1.9	20
57	Pr or Ce-doped, fast-response and low-afterglow cross-section-enhanced scintillator with 6Li for down-scattered neutron originated from laser fusion. Journal of Crystal Growth, 2013, 362, 288-290.	1.5	20
58	Luminescence properties of Nd3+ and Er3+ doped glasses in the VUV region. Optical Materials, 2013, 35, 1962-1964.	3.6	19
59	Fabrication of a cryogenic foam target for inertial confinement fusion experiments. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1988, 6, 3144-3147.	2.1	18
60	Cryogenic deuterium target experiments with the GEKKO XII, green laser system. Physics of Plasmas, 1995, 2, 2495-2503.	1.9	18
61	Dynamic imaging of 13.5 nm extreme ultraviolet emission from laser-produced Sn plasmas. Applied Physics Letters, 2005, 87, 241502.	3.3	18
62	Custom-Designed Fast-Response Praseodymium-Doped Lithium 6 Fluoro-Oxide Glass Scintillator With Enhanced Cross-Section for Scattered Neutron Originated From Inertial Confinement Fusion. IEEE Transactions on Nuclear Science, 2010, 57, 1426-1429.	2.0	18
63	Production of relativistic electrons at subrelativistic laser intensities. Physical Review E, 2020, 101, 031201.	2.1	18
64	Study of laser-imploded core plasmas with an advanced Kirkpatrickâ€"Baez x-ray microscope. Review of Scientific Instruments, 1997, 68, 824-827.	1.3	17
65	Monochromatic x-ray imaging with bent crystals for laser fusion research. Review of Scientific Instruments, 2001, 72, 744-747.	1.3	17
66	Resorcinol-Formalin Foam Balls Via Gelation of Emulsion Using Phase-Transfer Catalysts. Macromolecular Chemistry and Physics, 2005, 206, 2171-2176.	2.2	17
67	Relativistic magnetic reconnection in laser laboratory for testing an emission mechanism of hard-state black hole system. Physical Review E, 2020, 102, 033202.	2.1	17
68	Single shot radiography by a bright source of laser-driven thermal neutrons and x-rays. Applied Physics Express, 2021, 14, 106001.	2.4	17
69	Penumbral imaging for measurement of the ablation density in laser-driven targets. Review of Scientific Instruments, 2002, 73, 2588-2596.	1.3	16
70	Cool-down performance of the apparatus for the cryogenic target of the FIREX project. Fusion Engineering and Design, 2006, 81, 1647-1652.	1.9	16
71	Thin shell aerogel fabrication for FIREX-I targets using high viscosity (phloroglucinol carboxylic) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.0	16
72	Optical and scintillation properties of Pr-doped Li-glass for neutron detection in inertial confinement fusion process. Journal of Non-Crystalline Solids, 2011, 357, 910-914.	3.1	16

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73	Enhancing laser beam performance by interfering intense laser beamlets. Nature Communications, 2019, 10, 2995.	12.8	16
74	Recent progress in laser fusion research at Osaka University: Uniformity and stability issues*. Physics of Plasmas, 1994, 1, 1653-1661.	1.9	15
75	MoirÃ© interferometry of short wavelength Rayleighâ€“Taylor growth. Review of Scientific Instruments, 1999, 70, 637-641.	1.3	15
76	Single spatial mode experiments on initial laser imprint on direct-driven planar targets. Physics of Plasmas, 2002, 9, 1734-1744.	1.9	15
77	Experimental technique for launching miniature flying plates using laser pulses. International Journal of Impact Engineering, 2003, 29, 497-502.	5.0	15
78	Laser Machining of RF Foam by Second Harmonics of Nd:YAG Laser. Fusion Science and Technology, 2007, 51, 677-681.	1.1	15
79	Temporal evolution of temperature and density profiles of a laser compressed core (invited). Review of Scientific Instruments, 2003, 74, 1683-1687.	1.3	14
80	Temporally resolved Schwarzschild microscope for the characterization of extreme ultraviolet emission in laser-produced plasmas. Review of Scientific Instruments, 2004, 75, 5173-5176.	1.3	14
81	Rayleighâ€“Taylor instability growth on low-density foam targets. Physics of Plasmas, 2008, 15, .	1.9	14
82	Note: Light output enhanced fast response and low afterglow L6i glass scintillator as potential down-scattered neutron diagnostics for inertial confinement fusion. Review of Scientific Instruments, 2010, 81, 106105.	1.3	14
83	Fast-response, Low-Afterglow 4,4'''-Bis[(2-butyloctyl)oxy]-1,1':4',1'':4'',1'''-quarterphenyl Dye-Based Liquid Scintillator for High-Contrast Detection of Laser Fusion-Generated Neutrons. Japanese Journal of Applied Physics, 2011, 50, 080208.	1.5	14
84	Direct evaluation of high neutron density environment using <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mo>(</mml:mo><mml:mrow><mml:mi>[illegible]/mml:mi[illegible]<mml:mo reaction induced by laser-driven neutron source. Physical Review C, 2021, 104, .	2.9	14
85	Threeâ€dimensional imaging of laser imploded targets. Journal of Applied Physics, 1990, 68, 1483-1488.	2.5	13
86	Imprint reduction in a plasma layer preformed with x-ray irradiation. Physics of Plasmas, 2002, 9, 1381-1391.	1.9	12
87	Side-on measurement of hydrodynamics of laser-driven plasmas with high space- and time-resolution x-ray imaging technique. Review of Scientific Instruments, 2003, 74, 2198-2201.	1.3	12
88	The photonuclear neutron and gamma-ray backgrounds in the fast ignition experiment. Review of Scientific Instruments, 2012, 83, 10D909.	1.3	12
89	Optimization of Gelation to Prepare Hollow Foam Shell of Resorcinol-Formalin Using a Phase-Transfer Catalyst. Fusion Science and Technology, 2006, 49, 663-668.	1.1	11
90	Recent results and future prospects of laser fusion research at ILE, Osaka. European Physical Journal D, 2007, 44, 259-264.	1.3	11

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91	Custom-designed scintillator for laser fusion diagnostics â€“ Pr3+-doped fluoro-phosphate lithium glass scintillator. Optical Materials, 2010, 32, 1393-1396.	3.6	11
92	Electromagnetic field growth triggering super-ponderomotive electron acceleration during multi-picosecond laser-plasma interaction. Communications Physics, 2019, 2, .	5.3	11
93	4.8â€keV xâ€ray backlight framing method for observing images of softâ€xâ€rayâ€driven fusion capsules. Review of Scientific Instruments, 1993, 64, 706-710.	1.3	10
94	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.	1.6	10
95	FIREX foam cryogenic target development: residual void reduction and estimation with solid hydrogen refractive index measurements. Nuclear Fusion, 2013, 53, 083009.	3.5	10
96	Production of intense, pulsed, and point-like neutron source from deuterated plastic cavity by mono-directional kilo-joule laser irradiation. Applied Physics Letters, 2017, 111, 233506.	3.3	10
97	The avalanche image intensifier panel for fast neutron radiography by using laser-driven neutron sources. High Energy Density Physics, 2020, 36, 100833.	1.5	10
98	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
99	Implosion ofD2temperature-controlled cryogenic foam targets with plastic ablators. Physical Review E, 1994, 49, 1520-1526.	2.1	9
100	Dynamic Behavior of Rippled Shock Waves and Subsequently Induced Areal-Density-Perturbation Growth in Laser-Irradiated Foils. Physical Review Letters, 1995, 75, 2908-2908.	7.8	9
101	Measurements of mass ablation rate of laser-irradiated target by the face-on x-ray backlighting technique. Review of Scientific Instruments, 1998, 69, 3942-3944.	1.3	9
102	Measurement of preheating due to radiation and nonlocal electron heat transport in laser-irradiated targets. Physics of Plasmas, 2010, 17, 032702.	1.9	9
103	Characterizing a fast-response, low-afterglow liquid scintillator for neutron time-of-flight diagnostics in fast ignition experiments. Review of Scientific Instruments, 2014, 85, 11E126.	1.3	9
104	Effect of equation of state on laser imprinting by comparing diamond and polystyrene foils. Physics of Plasmas, 2018, 25, 032706.	1.9	9
105	A comparison of ablative acceleration measurements. Applied Physics Letters, 1982, 40, 776-778.	3.3	8
106	Suprathermal electron generation in cannonball targets. Optics Communications, 1986, 56, 409-414.	2.1	8
107	Annealing of polystyrene microcapsules for inertial confinement fusion experiments. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1991, 9, 150-153.	2.1	8
108	Stabilization of radiation reaction with vacuum polarization. Progress of Theoretical and Experimental Physics, 2014, 2014, 43A01-0.	6.6	8

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109	Monte Carlo particle collision model for qualitative analysis of neutron energy spectra from anisotropic inertial confinement fusion. High Energy Density Physics, 2020, 36, 100803.	1.5	8
110	Development of Compton X-ray spectrometer for high energy resolution single-shot high-flux hard X-ray spectroscopy. Review of Scientific Instruments, 2016, 87, 043502.	1.3	8
111	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.	1.3	7
112	Stimulated Raman scattering in cannonball targets. Physics of Fluids, 1987, 30, 3276.	1.4	7
113	Timeâ€resolved measurements of laserâ€induced shock waves in deuterated polystyrene porous targets by xâ€ray backlighting. Physics of Fluids B, 1991, 3, 735-744.	1.7	7
114	Suppression of the Rayleighâ€“Taylor instability and its implication for the impact ignition. Plasma Physics and Controlled Fusion, 2004, 46, B245-B254.	2.1	7
115	Down-scattered neutron imaging detector for areal density measurement of inertial confinement fusion. Review of Scientific Instruments, 2010, 81, 10D303.	1.3	7
116	Development of Multichannel Time-of-Flight Neutron Spectrometer for the Fast Ignition Experiment. Plasma and Fusion Research, 2014, 9, 4404110-4404110.	0.7	7
117	Whispering Gallery Effect in Relativistic Optics. JETP Letters, 2018, 107, 351-354.	1.4	7
118	The conceptual design of 1-ps time resolution neutron detector for fusion reaction history measurement at OMEGA and the National Ignition Facility. Review of Scientific Instruments, 2020, 91, 063304.	1.3	7
119	Development of xâ€ray emission computed tomography for ICF research. Review of Scientific Instruments, 1990, 61, 2783-2785.	1.3	6
120	Three dimensional imaging of laser-imploded targets using X-ray computed tomography technique. IEEE Transactions on Nuclear Science, 1997, 44, 890-893.	2.0	6
121	Perturbation transfer from the front to rear surface of laser-irradiated targets. Physical Review E, 2002, 65, 045401.	2.1	6
122	Study on EUV emission properties of laser-produced plasma at ILE, Osaka. , 2004, , .		6
123	Polystyrene Based Foam Materials for Cryogenic Targets of Fast Ignition Realization Experiment (FIREX). Fusion Science and Technology, 2006, 49, 695-700.	1.1	6
124	Tin-Polymer Composite on a Rotating Drum as a High Repetition Rate Laser Target for Extreme Ultraviolet Generation. Fusion Science and Technology, 2006, 49, 691-694.	1.1	6
125	Polymorphic tin dioxide synthesis via solâ€“gel mineralization of ethylâ€“cyanoethyl cellulose lyotropic liquid crystals. Colloid and Polymer Science, 2006, 284, 429-434.	2.1	6
126	Fast-Response and Low-Afterglow Cerium-Doped Lithium 6 Fluoro-Oxide Glass Scintillator for Laser Fusion-Originated Down-Scattered Neutron Detection. IEEE Transactions on Nuclear Science, 2012, 59, 2256-2259.	2.0	6

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127	Electronic States of Trivalent Praseodymium Ion Doped in 20Al(PO3)3â€“80LiF Glass. Japanese Journal of Applied Physics, 2013, 52, 062402.	1.5	6
128	Energy distribution of fast electrons accelerated by high intensity laser pulse depending on laser pulse duration. Journal of Physics: Conference Series, 2016, 717, 012102.	0.4	6
129	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.	7.7	6
130	Xâ€ray and particle diagnostics of a highâ€density plasma by laser implosion (invited). Review of Scientific Instruments, 1990, 61, 3235-3240.	1.3	5
131	Rippled shock propagation and hydrodynamic perturbation growth in laser implosion. Journal of Materials Processing Technology, 1999, 85, 34-38.	6.3	5
132	X-ray imaging diagnostics for laser-driven hydrodynamic instability experiments. Review of Scientific Instruments, 2003, 74, 2194-2197.	1.3	5
133	Estimation of emission efficiency for laser-produced EUV plasmas. , 2004, , .		5
134	Properties of EUV emissions from laser-produced tin plasmas. , 2004, 5374, 912.		5
135	Smooth Membrane Formation on Resorcinol-Formaldehyde Aerogel Balls Gelated Using a Basic Phase-Transfer Catalyst. Fusion Science and Technology, 2009, 55, 465-471.	1.1	5
136	Industrial applications of laser neutron source. Journal of Physics: Conference Series, 2010, 244, 042027.	0.4	5
137	Optical properties and structure of Pr3+-doped Al(PO3)3â€“LiF glasses as scattered neutron scintillator for nuclear fusion diagnostics. IOP Conference Series: Materials Science and Engineering, 2011, 18, 112006.	0.6	5
138	Leakage Control of Tritium Through Heat Cycles of Conceptual-Design, Laser-Fusion Reactor KOYO-F. Fusion Science and Technology, 2011, 60, 893-896.	1.1	5
139	Quantitative measurement of hard X-ray spectra from laser-driven fast ignition plasma. High Energy Density Physics, 2013, 9, 435-438.	1.5	5
140	Development of multichannel low-energy neutron spectrometer. Review of Scientific Instruments, 2014, 85, 11E125.	1.3	5
141	Accuracy evaluation of a Compton X-ray spectrometer with bremsstrahlung X-rays generated by a 6 MeV electron bunch. Review of Scientific Instruments, 2014, 85, 11D634.	1.3	5
142	Photonuclear reaction based high-energy x-ray spectrometer to cover from 2 MeV to 20 MeV. Review of Scientific Instruments, 2014, 85, 11D629.	1.3	5
143	Plasma mirror implementation on LFEX laser for ion and fast electron fast ignition. Nuclear Fusion, 2017, 57, 126018.	3.5	5
144	Dosimetric calibration of GafChromic HD-V2, MD-V3, and EBT3 films for dose ranges up to 100 kGy. Review of Scientific Instruments, 2021, 92, 063301.	1.3	5

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145	Measurements of Intensity Scaling of Ablation Pressure at 10.6 Âµm and 1.05 Âµm Laser Wavelengths. Japanese Journal of Applied Physics, 1984, 23, 1353-1356.	1.5	4
146	Foam Structure of Xerogel Prepared Via Ring-Opening Reaction Between Epoxy Groups Attached on the Side Chain of Polystyrene. Fusion Science and Technology, 2007, 51, 665-672.	1.1	4
147	Preliminary Results of Fuel Layering on the Cryogenic Target for the FIREX Project. Fusion Science and Technology, 2007, 51, 753-757.	1.1	4
148	Study on possible fuel layering sequence for FIREX target. Journal of Physics: Conference Series, 2010, 244, 032039.	0.4	4
149	Recent Developments in Fabrication of New Conceptual Gold Cone and Machining of Polystyrene Shell for Fast Ignition Target. Fusion Science and Technology, 2011, 59, 276-278.	1.1	4
150	Development of Compton X-Ray Spectrometer for Fast Ignition Experiment. Plasma and Fusion Research, 2014, 9, 4405109-4405109.	0.7	4
151	Progress Towards a Laser Produced Relativistic Electron-Positron Pair Plasma. Journal of Physics: Conference Series, 2016, 688, 012010.	0.4	4
152	Large aperture fast neutron imaging detector with 10-ns time resolution. Proceedings of SPIE, 2017, , .	0.8	4
153	Evaluation of laser-driven ion energies for fusion fast-ignition research. Progress of Theoretical and Experimental Physics, 2017, 2017, .	6.6	4
154	Manufacturing and Leak Check of Shell Targets for the FIREX-I Project. Plasma and Fusion Research, 2009, 4, S1010-S1010.	0.7	4
155	Laser Fusion Research at Ile Osaka University. Fusion Science and Technology, 1996, 30, 625-633.	0.6	3
156	Development of XUV lasers at the RAL Central Laser Facility. Optical and Quantum Electronics, 1996, 28, 201-208.	3.3	3
157	Shigemorietal.Reply:. Physical Review Letters, 1998, 80, 3415-3415.	7.8	3
158	Indirect/direct hybrid drive implosion experiments with x-ray pre-irradiation. , 2000, 3886, 465.		3
159	Hydrodynamic model experiment of the collision of supernova 1987A with its circumstellar ring using high-power laser. , 2000, 3886, 489.		3
160	Extreme Ultraviolet Emission from Laser-Irradiated Low-Density Xe Targets. Japanese Journal of Applied Physics, 2006, 45, 5951-5953.	1.5	3
161	Study on a fuel layering sequence of the foam target for the FIREX project. Journal of Physics: Conference Series, 2008, 112, 032067.	0.4	3
162	Development of TOF neutron spectrometer for the measurement of degenerated plasma in fast ignition experiment. Journal of Physics: Conference Series, 2008, 112, 032079.	0.4	3

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163	Developments of characterization of the foam shell target for fast ignition realization experiment-I (FIREX-I). Journal of Physics: Conference Series, 2008, 112, 032066.	0.4	3
164	Hugoniot and temperature measurements of liquid hydrogen by laser-shock compression. Journal of Physics: Conference Series, 2010, 244, 042018.	0.4	3
165	Improvement in the heating efficiency of fast ignition inertial confinement fusion through suppression of the preformed plasma. Nuclear Fusion, 2017, 57, 066022.	3.5	3
166	Efficient and Repetitive Neutron Generation by Double-Laser-Pulse Driven Photonuclear Reaction. Plasma and Fusion Research, 2018, 13, 2404009-2404009.	0.7	3
167	A large-aperture high-sensitivity avalanche image intensifier panel. Review of Scientific Instruments, 2018, 89, 101128.	1.3	3
168	A multichannel gated neutron detector with reduced afterpulse for low-yield neutron measurements in intense hard X-ray backgrounds. Review of Scientific Instruments, 2018, 89, 101114.	1.3	3
169	Development of Tritium Tracer Doped Liquid Fuel Target for Inertial Confinement Fusion at the Gekko XII-LFEX Facility. Fusion Science and Technology, 2020, 76, 464-470.	1.1	3
170	Temperature-Dependent EUV Spectra of Xenon Plasmas Observed in the Compact Helical System. Journal of Plasma and Fusion Research, 2005, 81, 480-481.	0.4	3
171	Fast-response, Low-Afterglow 4,4'''-Bis[(2-butyloctyl)oxy]-1,1':4',1'':4'',1'''-quarterphenyl Dye-Based Liquid Scintillator for High-Contrast Detection of Laser Fusion-Generated Neutrons. Japanese Journal of Applied Physics, 2011, 50, 080208.	1.5	3
172	Non-destructive inspection of water or high-pressure hydrogen gas in metal pipes by the flash of neutrons and x rays generated by laser. AIP Advances, 2022, 12, 045220.	1.3	3
173	Super-strong magnetic field-dominated ion beam dynamics in focusing plasma devices. Scientific Reports, 2022, 12, 6876.	3.3	3
174	Effects of non-local electron thermal transport on ablative Rayleigh-Taylor instability. Fusion Engineering and Design, 1999, 44, 205-208.	1.9	2
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