# Noriaki Miyanaga

List of Publications by Year
in descending order



| 291 | 7,245 | 76326 | 71685 |
|---|---|---|---|
| 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. | 27.8 | 873 |
| 2 | Random Phasing of High-Power Lasers for Uniform Target Acceleration and Plasma-Instability Suppression. Physical Review Letters, 1984, 53, 1057-1060. | 7.8 | 637 |
| 3 | Laguerre-Gaussian beam generated with a multilevel spiral phase plate for high intensity laser pulses. Optics Express, 2004, 12, 3548. | 3.4 | 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. | 7.8 | 146 |
| 6 | Prepulse-Free Petawatt Laser for a Fast Ignitor. IEEE Journal of Quantum Electronics, 2004, 40, 281-293. | 1.9 | 145 |
| 7 | Plasma physics and radiation hydrodynamics in developing an extreme ultraviolet light source for lithography. Physics of Plasmas, 2008, 15, . | 1.9 | 126 |
| 8 | Studies of ultra-intense laser plasma interactions for fast ignition. Physics of Plasmas, 2000, 7, 2014-2022. | 1.9 | 115 |
| 9 | Optical properties and Faraday effect of ceramic terbium gallium garnet for a room temperature Faraday rotator. Optics Express, 2011, 19, 15181. | 3.4 | 114 |
| 10 | 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 |
| 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. | 3.3 | 112 |
| 12 | 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 |
| 13 | Effect of pulse width and fluence of femtosecond laser on the size of nanobump array. Applied Surface Science, 2007, 253, 6555-6557. | 6.1 | 93 |
| 14 | Direct-drive hydrodynamic instability experiments on the GEKKO XII laser. Physics of Plasmas, 1997, 4, 4079-4089. | 1.9 | 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, . | 3.3 | 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. | 3.3 | 82 |
| 17 | Magnetized fast isochoric laser heating for efficient creation of ultra-high-energy-density states. Nature Communications, 2018, 9, 3937. | 12.8 | 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. | 2.5 | 73 |

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| 19 | Fast ignitor research at the Institute of Laser Engineering, Osaka University. Physics of Plasmas, 2001, 8, 2268-2274. | 1.9 | 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. | 3.3 | 65 |
| 22 | Low-density tin targets for efficient extreme ultraviolet light emission from laser-produced plasmas. Applied Physics Letters, 2006, 88, 161501. | 3.3 | 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. | 3.3 | 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. | 3.3 | 60 |
| 25 | Total-reflection active-mirror laser with cryogenic Yb:YAG ceramics. Optics Letters, 2009, 34, 3439. | 3.3 | 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. | 6.1 | 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. | 7.8 | 59 |
| 28 | Spectroscopic Determination of Dynamic Plasma Gradients in Implosion Cores. Physical Review Letters, 2002, 88, 045002. | 7.8 | 59 |
| 29 | Basic and integrated studies for fast ignition. Physics of Plasmas, 2003, 10, 1925-1930. | 1.9 | 58 |
| 30 | Comprehensive Diagnosis of Growth Rates of the Ablative Rayleigh-Taylor Instability. Physical Review Letters, 2007, 98, 045002. | 7.8 | 58 |
| 31 | High-energy, high-contrast, multiterawatt laser pulses by optical parametric chirped-pulse amplification. Optics Letters, 2007, 32, 2315. | 3.3 | 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. | 7.8 | 56 |
| 33 | Fast ignition integrated experiments with Gekko and LFEX lasers. Plasma Physics and Controlled Fusion, 2011, 53, 124029. | 2.1 | 55 |
| 34 | Plasma physics and laser development for the Fast-Ignition Realization Experiment (FIREX) Project. Nuclear Fusion, 2009, 49, 104024. | 3.5 | 45 |
| 35 | Temporal contrast enhancement of petawatt-class laser pulses. Optics Letters, 2012, 37, 3363. | 3.3 | 44 |
| 36 | Liquidly process in femtosecond laser processing. Applied Surface Science, 2009, 255, 9761-9763. | 6.1 | 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. | 6.3 | 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. | 1.3 | 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. | 2.0 | 41 |
| 40 | Three-directional spectral dispersion for smoothing of a laser irradiance profile. Optics Letters, 2002, 27, 725. | 3.3 | 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. | 2.1 | 40 |
| 42 | Characterization of density profile of laser-produced Sn plasma for 13.5nm extreme ultraviolet source. Applied Physics Letters, 2005, 86, 201501. | 3.3 | 39 |
| 43 | Spectroscopic study of debris mitigation with minimum-mass Sn laser plasma for extreme ultraviolet lithography. Applied Physics Letters, 2006, 88, 171503. | 3.3 | 38 |
| 44 | Electron bunch trapping and compression by an intense focused pulse laser. Physical Review E, 2004, 69, 056502. | 2.1 | 37 |
| 45 | High thermonuclear neutron yield by shock multiplexing implosion with GEKKO XII green laser. Nuclear Fusion, 1987, 27, 19-30. | 3.5 | 36 |
| 46 | Intense longitudinal electric fields generated from transverse electromagnetic waves. Applied Physics Letters, 2004, 84, 3855-3857. | 3.3 | 36 |
| 47 | Fast plasma heating in a cone-attached geometryâ€"towards fusion ignition. Nuclear Fusion, 2004, 44, S276-S283. | 3.5 | 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. | 3.3 | 36 |
| 49 | Model for Cannonball-Like Acceleration of Laser-Irradiated Targets. Japanese Journal of Applied Physics, 1981, 20, L477-L480. | 1.5 | 35 |
| 50 | Electron bunch acceleration and trapping by the ponderomotive force of an intense short-pulse laser. Physics of Plasmas, 2003, 10, 4605-4608. | 1.9 | 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. | 1.9 | 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. | 3.3 | 33 |
| 54 | Electron bunch acceleration and trapping by ponderomotive force of an intense short-pulse laser. Laser and Particle Beams, 2005, 23, . | 1.0 | 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. | 6.7 | 33 |
| 56 | Mesoscopic nanomaterials generated by interfering femtosecond laser processing. Applied Physics A: Materials Science and Processing, 2010, 101, 471-474. | 2.3 | 32 |
| 57 | Absolute evaluation of out-of-band radiation from laser-produced tin plasmas for extreme ultraviolet lithography. Applied Physics Letters, 2008, 92, . | 3.3 | 31 |
| 58 | Indirect-direct hybrid target experiments with the GEKKO XII laser. Nuclear Fusion, 2000, 40, 547-556. | 3.5 | 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. | 1.3 | 29 |
| 61 | Measurement of D-D burn region using proton penumbral coded aperture imaging. Optics Communications, 1989, 73, 337-341. | 2.1 | 28 |
| 62 | Zig-zag active-mirror laser with cryogenic Yb^3+:YAG/YAG composite ceramics. Optics Express, 2011, 19, 2448. | 3.4 | 28 |
| 63 | Interferometric phase shift compensation technique for high-power, tiled-aperture coherent beam combination. Optics Letters, 2013, 38, 1277. | 3.3 | 28 |
| 64 | Ion diffusion at the bonding interface of undoped YAG/Yb:YAG composite ceramics. Optical Materials, 2015, 46, 542-547. | 3.6 | 28 |
| 65 | Present status of fast ignition realization experiment and inertial fusion energy development. Nuclear Fusion, 2013, 53, 104021. | 3.5 | 27 |
| 66 | Temperature dependence of optical properties in Nd/Cr:YAG materials. Journal of Luminescence, 2014, 148, 342-346. | 3.1 | 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. | 3.3 | 26 |
| 68 | Suppression of speckle contrast by using polarization property on second harmonic generation. Optics Communications, 1993, 103, 185-188. | 2.1 | 25 |
| 69 | 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 |
| 70 | Photo-reflection and laser-ablation properties of phthalocyanine/perylene derivative bilayer. Synthetic Metals, 2001, 121, 1445-1446. | 3.9 | 25 |
| 71 | The Current Trends in SBS and phase conjugation. Laser and Particle Beams, 2012, 30, 117-174. | 1.0 | 25 |
| 72 | ASE and parasitic lasing in thin disk laser with anti-ASE cap. Optics Express, 2013, 21, 13118. | 3.4 | 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. | 7.8 | 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. | 2.9 | 24 |
| 76 | Uniform laser ablation via photovoltaic effect of phthalocyanine/perylene derivative. Applied Surface Science, 2002, 197-198, 808-813. | 6.1 | 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. | 2.4 | 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. | 3.3 | 23 |
| 79 | Output characteristics of high power cryogenic Yb:YAG TRAM laser oscillator. Optics Express, 2012, 20, 21739. | 3.4 | 23 |
| 80 | Heating efficiency evaluation with mimicking plasma conditions of integrated fast-ignition experiment. Physical Review E, 2015, 91, 063102. | 2.1 | 23 |
| 81 | High-Intensity Neutron Generation via Laser-Driven Photonuclear Reaction. Plasma and Fusion Research, 2015, 10, 2404003-2404003. | 0.7 | 23 |
| 82 | Radiochemistry and secondary reactions for the diagnostics of laserâ€driven fusion plasmas. Review of Scientific Instruments, 1986, 57, 1731-1733. | 1.3 | 22 |
| 83 | Integrated experiments of fast ignition targets by Gekko-XII and LFEX lasers. High Energy Density Physics, 2012, 8, 227-230. | 1.5 | 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. | 3.3 | 22 |
| 85 | Frequency modulation controlled by cross-phase modulation in optical fiber. Optics Letters, 1997, 22, 25. | 3.3 | 21 |
| 86 | Designing of interference pattern in ultra-short pulse laser processing. Applied Physics A: Materials Science and Processing, 2013, 112, 191-196. | 2.3 | 21 |
| 87 | Three-dimensional reconstruction of laser-irradiated targets using URA coded aperture cameras. Optics Communications, 1989, 71, 249-255. | 2.1 | 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. | 1.3 | 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, . | 2.5 | 20 |
| 90 | Design of interference using coherent beams configured as a six-sided pyramid. Applied Optics, 2012, 51, 5004. | 1.8 | 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. | 12.7 | 20 |
| 92 | Split-aperture laser pulse compressor design tolerant to alignment and line-density differences. Optics Letters, 2008, 33, 1902. | 3.3 | 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. | 3.4 | 19 |
| 94 | Cryogenic deuterium target experiments with the GEKKO XII, green laser system. Physics of Plasmas, 1995, 2, 2495-2503. | 1.9 | 18 |
| 95 | Progress and perspectives of fast ignition. Plasma Physics and Controlled Fusion, 2004, 46, B41-B49. | 2.1 | 18 |
| 96 | Dynamic imaging of 13.5 nm extreme ultraviolet emission from laser-produced Sn plasmas. Applied Physics Letters, 2005, 87, 241502. | 3.3 | 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. | 3.4 | 18 |
| 98 | Experimental demonstration of spatially coherent beam combining using optical parametric amplification. Optics Express, 2010, 18, 14541. | 3.4 | 18 |
| 99 | Conceptual design of sub-exa-watt system by using optical parametric chirped pulse amplification. Journal of Physics: Conference Series, 2016, 688, 012044. | 0.4 | 17 |
| 100 | Fabricating a regular hexagonal lattice structure by interference pattern of six femtosecond laser beams. Applied Surface Science, 2017, 417, 69-72. | 6.1 | 17 |
| 101 | Pointâ€source xâ€ray backlighting for highâ€density plasma diagnostics. Applied Physics Letters, 1983, 42, 160-162. | 3.3 | 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. | 1.5 | 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. | 3.1 | 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. | 3.4 | 16 |
| 105 | Fuel areal density measurement of laserâ€imploded targets by use of elastically scattered protons. Applied Physics Letters, 1989, 54, 1308-1310. | 3.3 | 15 |
| 106 | Recent progress in laser fusion research at Osaka University: Uniformity and stability issues*. Physics of Plasmas, 1994, 1, 1653-1661. | 1.9 | 15 |
| 107 | MoirÃ© interferometry of short wavelength Rayleighâ€“Taylor growth. Review of Scientific Instruments, 1999, 70, 637-641. | 1.3 | 15 |
| 108 | Single spatial mode experiments on initial laser imprint on direct-driven planar targets. Physics of Plasmas, 2002, 9, 1734-1744. | 1.9 | 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. | 3.4 | 15 |
| 111 | Sub-15fs ultraviolet pulses generated by achromatic phase-matching sum-frequency mixing. Optics Express, 2009, 17, 17711. | 3.4 | 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. | 3.3 | 15 |
| 113 | Fast heating of super-solid density plasmas towards laser fusion ignition. Plasma Physics and Controlled Fusion, 2002, 44, B109-B119. | 2.1 | 14 |
| 114 | Temporal evolution of temperature and density profiles of a laser compressed core (invited). Review of Scientific Instruments, 2003, 74, 1683-1687. | 1.3 | 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. | 1.3 | 14 |
| 116 | High efficiency and high energy parametric wavelength conversion using a large aperture periodically poled MgO:LiNbO3. Optics Communications, 2008, 281, 3902-3905. | 2.1 | 14 |
| 117 | Partially deuterated potassium dihydrogen phosphate optimized for ultra-broadband optical parametric amplification. Journal of Applied Physics, 2015, 117, 093103. | 2.5 | 14 |
| 118 | Parallel fabrication of spiral surface structures by interference pattern of circularly polarized beams. Scientific Reports, 2018, 8, 13448. | 3.3 | 14 |
| 119 | Laser-Induced Transfer of Noble Metal Nanodots with Femtosecond Laser-Interference Processing. Nanomaterials, 2021, 11, 305. | 4.1 | 14 |
| 120 | Efficient Spherical Compression of Cannonball Targets with 1.052-Âµm Laser Beams. Japanese Journal of Applied Physics, 1983, 22, L551-L553. | 1.5 | 13 |
| 121 | Multiple Inner-Shell Vacancies in Laser-Irradiated Au Plasma. Physical Review Letters, 1985, 54, 1999-2002. | 7.8 | 13 |
| 122 | Thermonuclear burn time and duration in laserâ€driven highâ€aspectâ€ratio targets. Applied Physics Letters, 1989, 55, 945-947. | 3.3 | 13 |
| 123 | Threeâ€dimensional imaging of laser imploded targets. Journal of Applied Physics, 1990, 68, 1483-1488. | 2.5 | 13 |
| 124 | Time-resolved, two-dimensional electron-temperature distribution of laser-imploded core plasmas. Review of Scientific Instruments, 1997, 68, 820-823. | 1.3 | 13 |
| 125 | Time-resolved two-dimensional monochromatic imaging of laser-imploded plasma. Review of Scientific Instruments, 1997, 68, 817-819. | 1.3 | 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. | 1.9 | 12 |
| 128 | Dispersion compensation in an Yb-doped fiber oscillator for generating transform-limited, wing-free pulses. Optics Express, 2011, 19, 25199. | 3.4 | 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. | 2.6 | 12 |
| 130 | Scattering pulse-induced temporal contrast degradation in chirped-pulse amplification lasers. Optics Express, 2017, 25, 21201. | 3.4 | 12 |
| 131 | Xâ€ray and radioactive measurements in ICF research at ILE Osaka (invited). Review of Scientific Instruments, 1985, 56, 1128-1132. | 1.3 | 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. | 1.3 | 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. | 1.3 | 11 |
| 134 | Intelligent Target Materials to Control Laser Ablation. Fusion Science and Technology, 2002, 41, 257-260. | 1.1 | 11 |
| 135 | Recent results and future prospects of laser fusion research at ILE, Osaka. European Physical Journal D, 2007, 44, 259-264. | 1.3 | 11 |
| 136 | Characteristics of uraniumâ€oxide cathode for neutron streak camera. Review of Scientific Instruments, 1986, 57, 1743-1745. | 1.3 | 10 |
| 137 | Direct areal density measurement by activation technique for plastic hollow shell implosion experiments. Applied Physics Letters, 1989, 55, 2072-2074. | 3.3 | 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. | 1.6 | 10 |
| 139 | X-ray backlight measurement of preformed plasma by kJ-class petawatt LFEX laser. Journal of Applied Physics, 2012, 112, 063301. | 2.5 | 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. | 2.1 | 9 |
| 143 | Speckle suppression of laser light using liquid crystals aligned by photoisomerization of dye molecules. Applied Physics Letters, 2002, 81, 5111-5113. | 3.3 | 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 CO<sub>2</sub> Laser Illumination. Langmuir, 2008, 24, 10402-10406. | 3.5 | 9 |
| 147 | Nano-structured lithium-tin plane fabrication for laser produced plasma and extreme ultraviolet generation. Laser and Particle Beams, 2008, 26, 497-501. | 1.0 | 9 |
| 148 | Temperature-dependent fluorescence decay and energy transfer in Nd/Cr:YAG ceramics. Optical Materials, 2019, 90, 215-219. | 3.6 | 9 |
| 149 | Energetic Proton Generation in a Thin Plastic Foil Irradiated by Intense Femtosecond Lasers.. Journal of Nuclear Science and Technology, 2002, 39, 1-5. | 1.3 | 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. | 1.6 | 8 |
| 151 | Neutron penumbral imaging at Gekko XII (abstract). Review of Scientific Instruments, 1990, 61, 3230-3230. | 1.3 | 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. | 2.3 | 8 |
| 153 | Effect of interference pattern on femtosecond laser-induced ripple structure. Applied Physics A: Materials Science and Processing, 2010, 98, 401-405. | 2.3 | 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. | 2.3 | 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. | 1.3 | 7 |
| 156 | Double-Shell-Target Implosion by Four Beams from the GEKKO IV Laser System. Physical Review Letters, 1983, 51, 570-573. | 7.8 | 7 |
| 157 | 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 |
| 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. | 1.5 | 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. | 3.8 | 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. | 2.3 | 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. | 2.1 | 7 |
| 162 | Amplification characteristics of a cryogenic Yb3+:YAG total-reflection active-mirror laser. Applied Optics, 2014, 53, 1964. | 1.8 | 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. | 2.3 | 7 |
| 164 | Development of xâ€ray emission computed tomography for ICF research. Review of Scientific Instruments, 1990, 61, 2783-2785. | 1.3 | 6 |
| 165 | Gated neutron streak camera with a uranium cathode. Review of Scientific Instruments, 1990, 61, 3592-3595. | 1.3 | 6 |
| 166 | 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 |
| 167 | Debris-Free High-Speed Laser-Assisted Low-Stress Dicing for Multi-Layered MEMS. IEEJ Transactions on Sensors and Micromachines, 2009, 129, 63-68. | 0.1 | 6 |
| 168 | Interfering Ultraviolet Femtosecond Laser Processing of Gold Thin Film and Prospect of Shortest Period. Applied Physics Express, 2012, 5, 102703. | 2.4 | 6 |
| 169 | Heat treatment of transparent Yb:YAG and YAG ceramics and its influence on laser performance. Optical Materials, 2018, 79, 353-357. | 3.6 | 6 |
| 170 | Room-temperature bonding with post-heat treatment for composite Yb:YAG ceramic lasers. Optical Materials, 2019, 91, 344-348. | 3.6 | 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. | 7.7 | 6 |
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