

Noriaki Miyanaga

List of Publications by Year in Descending Order

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

262
papers

6,076
citations

36
h-index

70
g-index

292
ext. papers

6,704
ext. citations

3
avg, IF

4.78
L-index

#	Paper	IF	Citations
262	Cascaded energy transfer and enhanced near-infrared emission in visible-pumped Cr and Nd co-doped Yb:YAG. <i>Optical Materials</i> , 2022 , 128, 112396	3.3	0
261	Hot Electron and Ion Spectra in Axial and Transverse Laser Irradiation in the GXII-LFEX Direct Fast Ignition Experiment. <i>Plasma and Fusion Research</i> , 2021 , 16, 2404076-2404076	0.5	0
260	Laser-Induced Transfer of Noble Metal Nanodots with Femtosecond Laser-Interference Processing. <i>Nanomaterials</i> , 2021 , 11,	5.4	4
259	Numerical simulation of an adaptive beam-shaping technique using a phase grating overlapped via a spatial light modulator for precision square flat-top beam. <i>Applied Physics A: Materials Science and Processing</i> , 2020 , 126, 1	2.6	1
258	Nanodot array deposition via single shot laser interference pattern using laser-induced forward transfer. <i>International Journal of Extreme Manufacturing</i> , 2020 , 2, 025101	7.9	9
257	Room-temperature bonding with post-heat treatment for composite Yb:YAG ceramic lasers. <i>Optical Materials</i> , 2019 , 91, 344-348	3.3	2
256	Temperature-dependent fluorescence decay and energy transfer in Nd/Cr:YAG ceramics. <i>Optical Materials</i> , 2019 , 90, 215-219	3.3	7
255	Utilization of the high spatial-frequency component in adaptive beam shaping by using a virtual diagonal phase grating. <i>Scientific Reports</i> , 2019 , 9, 4640	4.9	10
254	Fast pulse train control using filled-aperture coherent beam combining for high-average-power laser systems. <i>Optics Letters</i> , 2019 , 44, 5434-5437	3	1
253	Theoretical method for generating regular spatiotemporal pulsed-beam with controlled transverse-spatiotemporal dispersion. <i>Optics Communications</i> , 2019 , 432, 91-96	2	3
252	Heat treatment of transparent Yb:YAG and YAG ceramics and its influence on laser performance. <i>Optical Materials</i> , 2018 , 79, 353-357	3.3	6
251	Investigation of optical parametric fluorescence suppression with a quencher pulse in an optical parametric chirped-pulse amplification laser. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 012701	1.4	2
250	Local Melting of Gold Thin Films by Femtosecond Laser-Interference Processing to Generate Nanoparticles on a Source Target. <i>Nanomaterials</i> , 2018 , 8,	5.4	3
249	Stable ultra-broadband gain spectrum with wide-angle non-collinear optical parametric amplification. <i>Optics Express</i> , 2018 , 26, 28848-28860	3.3	5
248	Temperature-dependent absorption assessment of YAG ceramics as cladding material. <i>Optical Materials Express</i> , 2018 , 8, 2378	2.6	3
247	Magnetized fast isochoric laser heating for efficient creation of ultra-high-energy-density states. <i>Nature Communications</i> , 2018 , 9, 3937	17.4	53
246	PCSEL pumped coupling optics free Yb:YAG/Cr:YAG microchip laser. <i>Applied Optics</i> , 2018 , 57, 5295-5298	1.7	1

245	Parallel fabrication of spiral surface structures by interference pattern of circularly polarized beams. <i>Scientific Reports</i> , 2018 , 8, 13448	4.9	10
244	Beam shaping by spatial light modulator and 4f system to square and top-flat for interference laser processing 2017 ,		10
243	Fabricating a regular hexagonal lattice structure by interference pattern of six femtosecond laser beams. <i>Applied Surface Science</i> , 2017 , 417, 69-72	6.7	10
242	600 W green and 300 W UV light generated from an eight-beam, sub-nanosecond fiber laser system. <i>Optics Letters</i> , 2017 , 42, 3255-3258	3	14
241	High-beam-quality, efficient operation of passively Q-switched Yb:YAG/Cr:YAG laser pumped by photonic-crystal surface-emitting laser. <i>Applied Physics B: Lasers and Optics</i> , 2017 , 123, 1	1.9	5
240	Spatial asymmetry of optical parametric fluorescence with a divergent pump beam and potential applications. <i>Optics Express</i> , 2017 , 25, 7465-7474	3.3	5
239	Scattering pulse-induced temporal contrast degradation in chirped-pulse amplification lasers. <i>Optics Express</i> , 2017 , 25, 21201-21215	3.3	9
238	Direction-dependent waist-shift-difference of Gaussian beam in a multiple-pass zigzag slab amplifier and geometrical optics compensation method. <i>Applied Optics</i> , 2017 , 56, 8513-8519	1.7	1
237	High-average-power green laser using Nd:YAG amplifier with stimulated Brillouin scattering phase-conjugate pulse-cleaning mirror. <i>Optics Express</i> , 2016 , 24, 12557-64	3.3	13
236	Ultra-high-contrast kilojoule-class petawatt LFEX laser using a plasma mirror 2016 , 55, 6850		25
235	Demonstration of a photonic crystal surface-emitting laser pumped Yb:YAG laser. <i>Optics Letters</i> , 2016 , 41, 4653-4655	3	5
234	Coherent Beam Combining with Optical Parametric Processes. <i>The Review of Laser Engineering</i> , 2016 , 44, 380	0	
233	Development of Pulsed 1.5 kW Class Average-Output-Power Fiber Laser System Based on Yb-Doped Rod Photonic Crystal Fibers (PCFs) for Beam Combination. <i>The Review of Laser Engineering</i> , 2016 , 44, 363	0	1
232	Conceptual design of sub-exa-watt system by using optical parametric chirped pulse amplification. <i>Journal of Physics: Conference Series</i> , 2016 , 688, 012044	0.3	9
231	Suppression of photo-darkening effect in Yb-doped silica glass fiber by co-doping of group 2 element. <i>Journal of Non-Crystalline Solids</i> , 2016 , 440, 85-89	3.9	14
230	Sub-micron period metal lattices fabricated by interfering ultraviolet femtosecond laser processing. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1	2.6	7
229	Ion diffusion at the bonding interface of undoped YAG/Yb:YAG composite ceramics. <i>Optical Materials</i> , 2015 , 46, 542-547	3.3	21
228	Influence of laser scanning conditions on CFRP processing with a pulsed fiber laser. <i>Journal of Materials Processing Technology</i> , 2015 , 222, 110-121	5.3	34

227	Partially deuterated potassium dihydrogen phosphate optimized for ultra-broadband optical parametric amplification. <i>Journal of Applied Physics</i> , 2015 , 117, 093103	2.5	8
226	Fabrication of metallic hole array metamaterials with 760nm and 1930nm lattice constant by interfering femtosecond laser processing. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2015 , 17, 10-14	2.6	2
225	Heating efficiency evaluation with mimicking plasma conditions of integrated fast-ignition experiment. <i>Physical Review E</i> , 2015 , 91, 063102	2.4	23
224	High-Intensity Neutron Generation via Laser-Driven Photonuclear Reaction. <i>Plasma and Fusion Research</i> , 2015 , 10, 2404003-2404003	0.5	13
223	Small signal gain for Nd/Cr:YAG ceramics at high temperature 2015 ,		1
222	Development of Feedback Algorithm for Filled Aperture Coherent Beam Combining Technique with Phase Control. <i>The Review of Laser Engineering</i> , 2015 , 43, 169	0	
221	Neutron Generation by Laser-Driven Photonuclear Reaction. <i>The Review of Laser Engineering</i> , 2015 , 43, 98	0	
220	Recent Progress of Interfering Ultra-fast Laser Processing Technique. <i>IEEJ Transactions on Electronics, Information and Systems</i> , 2015 , 135, 1080-1084	0.1	
219	Temperature dependence of optical properties in Nd/Cr:YAG materials. <i>Journal of Luminescence</i> , 2014 , 148, 342-346	3.8	23
218	Template free synthesis of free-standing silver nanowhisker and nanocrown superlattice by interfering femtosecond laser irradiation. <i>Japanese Journal of Applied Physics</i> , 2014 , 53, 096701	1.4	14
217	Change of interference pattern using fundamental and second-harmonic wavelengths by phase shift of a beam. <i>Applied Physics A: Materials Science and Processing</i> , 2014 , 117, 207-210	2.6	3
216	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	
215	Micromachining of thin CFRP with UV-PS laser pulses 2014 ,		3
214	Amplification characteristics of a cryogenic Yb ³⁺ :YAG total-reflection active-mirror laser. <i>Applied Optics</i> , 2014 , 53, 1964-9	1.7	6
213	Two-stage optical parametric chirped-pulse amplifier using sub-nanosecond pump pulse generated by stimulated Brillouin scattering compression. <i>Applied Physics Express</i> , 2014 , 7, 122702	2.4	5
212	Femtosecond-Laser-Induced Surface Texturing of Al-Si Alloy for Lower Friction Surface. <i>The Review of Laser Engineering</i> , 2014 , 42, 341	0	
211	Conceptual Design of a Sub-Exa-Watts Laser System "EKKO-EXA" <i>The Review of Laser Engineering</i> , 2014 , 42, 179	0	
210	Solid-Liquid-Solid process for forming free-standing gold nanowhisker superlattice by interfering femtosecond laser irradiation. <i>Applied Surface Science</i> , 2013 , 274, 27-32	6.7	51

209	174W at 1kHz, 532nm SHG from LBO crystals using high average power Nd: YAG laser 2013 ,		1
208	High efficiency 12.5 J second-harmonic generation from CsLiB6O10 nonlinear crystal by diode-pumped Nd:glass laser. <i>Optics Express</i> , 2013 , 21, 8393-400	3.3	13
207	A monolithic composite ceramic with total-reflection active-mirrors for joule-class pulse energy amplification. <i>Optical Materials</i> , 2013 , 35, 770-773	3.3	3
206	Ultrafast time-resolved pump-probe spectroscopy of PYP by a sub-8 fs pulse laser at 400 nm. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 4818-26	3.4	9
205	Organized metamaterials comprised of gold nanoneedles in a lattice generated on silicon (100) wafer substrates by interfering femtosecond laser processing. <i>Applied Physics A: Materials Science and Processing</i> , 2013 , 112, 173-177	2.6	7
204	Designing of interference pattern in ultra-short pulse laser processing. <i>Applied Physics A: Materials Science and Processing</i> , 2013 , 112, 191-196	2.6	19
203	Quantitative measurement of hard X-ray spectra from laser-driven fast ignition plasma. <i>High Energy Density Physics</i> , 2013 , 9, 435-438	1.2	5
202	ASE and parasitic lasing in thin disk laser with anti-ASE cap. <i>Optics Express</i> , 2013 , 21, 13118-24	3.3	20
201	Present status of fast ignition realization experiment and inertial fusion energy development. <i>Nuclear Fusion</i> , 2013 , 53, 104021	3.3	21
200	Interferometric phase shift compensation technique for high-power, tiled-aperture coherent beam combination. <i>Optics Letters</i> , 2013 , 38, 1277-9	3	21
199	New insights into the laser produced electron-positron pairs. <i>New Journal of Physics</i> , 2013 , 15, 065010	2.9	22
198	Gain Spectral Filtering for Spectral Enhancement of Mode-Locked Fiber Oscillators. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 122701	1.4	
197	High-Gain Regenerative Chirped-Pulse Amplifier Using Photonic Crystal Rod Fiber. <i>Applied Physics Express</i> , 2013 , 6, 122703	2.4	2
196	Designing of Interference Pattern Using Coherent Beams and Fabrication of Gold Nanowhisker Arrayed in Matrix. <i>The Review of Laser Engineering</i> , 2013 , 41, 811	0	
195	High-energy-density plasmas generation on GEKKO-LFEX laser facility for fast-ignition laser fusion studies and laboratory astrophysics. <i>Plasma Physics and Controlled Fusion</i> , 2012 , 54, 124042	2	35
194	Output characteristics of high power cryogenic Yb:YAG TRAM laser oscillator. <i>Optics Express</i> , 2012 , 20, 21739-48	3.3	16
193	Integrated experiments of fast ignition targets by Gekko-XII and LFEX lasers. <i>High Energy Density Physics</i> , 2012 , 8, 227-230	1.2	18
192	Dual beam laser grooving of CFRP by pulsed lasers 2012 ,		4

191	The Current Trends in SBS and phase conjugation. <i>Laser and Particle Beams</i> , 2012 , 30, 117-174	0.9	21
190	Generation of sub-7-cycle optical pulses from a mode-locked ytterbium-doped single-mode fiber oscillator pumped by polarization-combined 915 nm laser diodes. <i>Optics Letters</i> , 2012 , 37, 3972-4	3	20
189	Design of interference using coherent beams configured as a six-sided pyramid. <i>Applied Optics</i> , 2012 , 51, 5004-10	1.7	15
188	Temporal contrast enhancement of petawatt-class laser pulses. <i>Optics Letters</i> , 2012 , 37, 3363-5	3	40
187	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
186	Interfering Ultraviolet Femtosecond Laser Processing of Gold Thin Film and Prospect of Shortest Period. <i>Applied Physics Express</i> , 2012 , 5, 102703	2.4	6
185	Development of High-Peak and High-Average-Power MOPA Laser System Using Yb-Doped Photonic Crystal Fiber. <i>The Review of Laser Engineering</i> , 2012 , 40, 780	0	
184	Fast ignition integrated experiments with Gekko and LFEX lasers. <i>Plasma Physics and Controlled Fusion</i> , 2011 , 53, 124029	2	46
183	Zig-zag active-mirror laser with cryogenic Yb ³⁺ :YAG/YAG composite ceramics. <i>Optics Express</i> , 2011 , 19, 2448-55	3.3	23
182	Optical properties and Faraday effect of ceramic terbium gallium garnet for a room temperature Faraday rotator. <i>Optics Express</i> , 2011 , 19, 15181-7	3.3	93
181	Dispersion compensation in an Yb-doped fiber oscillator for generating transform-limited, wing-free pulses. <i>Optics Express</i> , 2011 , 19, 25199-205	3.3	11
180	Cutting of Carbon Fiber-Reinforced Plastic (CFRP) by Ultra-Short Pulse Lasers. <i>The Review of Laser Engineering</i> , 2011 , 39, 701-705	0	0
179	Present states and future prospect of fast ignition realization experiment (FIREX) with Gekko and LFEX Lasers at ILE. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011 , 653, 84-88	1.2	10
178	Sub-kHz cryogenic Yb:YAG regenerative amplifier by using a total-reflection active mirror. <i>Applied Physics B: Lasers and Optics</i> , 2011 , 104, 29-32	1.9	4
177	Construction of LFEX PW laser and conceptual design of sub EW laser at Osaka University 2011 ,		1
176	84 dB amplification, 0.46 J in a 10 Hz output diode-pumped Nd:YLF ring amplifier with phase-conjugated wavefront corrector. <i>Optics Express</i> , 2010 , 18, 13927-34	3.3	16
175	Experimental demonstration of spatially coherent beam combining using optical parametric amplification. <i>Optics Express</i> , 2010 , 18, 14541-6	3.3	16
174	Pulse compression and beam focusing with segmented diffraction gratings in a high-power chirped-pulse amplification glass laser system. <i>Optics Letters</i> , 2010 , 35, 1783-5	3	30

173	Key Technology for High-Peak and High-Average Power and Recent Progress in Large Core Yb-Fiber Laser System with Pulse Operation. <i>The Review of Laser Engineering</i> , 2010 , 38, 849-857	0	1
172	Effect of interference pattern on femtosecond laser-induced ripple structure. <i>Applied Physics A: Materials Science and Processing</i> , 2010 , 98, 401-405	2.6	7
171	Development of ultra-short pulse VUV laser system for nanoscale processing. <i>Applied Physics A: Materials Science and Processing</i> , 2010 , 101, 297-301	2.6	
170	Mesoscopic nanomaterials generated by interfering femtosecond laser processing. <i>Applied Physics A: Materials Science and Processing</i> , 2010 , 101, 471-474	2.6	28
169	Generation of subpicosecond vacuum ultraviolet pulses at 126 nm by using harmonics of a subpicosecond Ti:Sapphire laser. <i>Optics Communications</i> , 2010 , 283, 414-416	2	2
168	Debris-free Low-stress High-speed Laser-assisted Dicing for Multi-layered MEMS. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2010 , 130, 118-123	0.2	2
167	Plasma physics and laser development for the Fast-Ignition Realization Experiment (FIREX) Project. <i>Nuclear Fusion</i> , 2009 , 49, 104024	3.3	41
166	Nano-structured surfaces on NiTi generated by multiple shots of interfering femtosecond laser. <i>Optics and Lasers in Engineering</i> , 2009 , 47, 847-849	4.6	7
165	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
164	Liquidly process in femtosecond laser processing. <i>Applied Surface Science</i> , 2009 , 255, 9761-9763	6.7	36
163	Total-reflection active-mirror laser with cryogenic Yb:YAG ceramics. <i>Optics Letters</i> , 2009 , 34, 3439-41	3	46
162	Sub-15fs ultraviolet pulses generated by achromatic phase-matching sum-frequency mixing. <i>Optics Express</i> , 2009 , 17, 17711-4	3.3	15
161	Debris-Free Low-Stress Dicing Assisted by Pulsed Laser for Multi-Layered MEMS. <i>The Review of Laser Engineering</i> , 2009 , 37, 384-388	0	
160	Waveform Control and Wavefront Correction of A Large-Aperture High-Energy Glass Laser System. <i>The Review of Laser Engineering</i> , 2009 , 37, 455-460	0	3
159	New Surface Nano-Structuring Technique Using Interfering Ultrafast Laser Processing. <i>The Review of Laser Engineering</i> , 2009 , 37, 494-499	0	
158	Debris-Free High-Speed Laser-Assisted Low-Stress Dicing for Multi-Layered MEMS. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2009 , 129, 63-68	0.2	5
157	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
156	Advanced Target Design for the FIREX-I Project. <i>Plasma and Fusion Research</i> , 2009 , 4, S1001-S1001	0.5	1

155	Dry tin dioxide hollow microshells and extreme ultraviolet radiation induced by CO2 laser illumination. <i>Langmuir</i> , 2008 , 24, 10402-6	4	9
154	213 W average power of 2.4 GW pulsed thermally controlled Nd:glass zigzag slab laser with a stimulated Brillouin scattering mirror. <i>Optics Letters</i> , 2008 , 33, 1711-3	3	91
153	Split-aperture laser pulse compressor design tolerant to alignment and line-density differences. <i>Optics Letters</i> , 2008 , 33, 1902-4	3	15
152	High Power Lasers and Their New Applications. <i>Journal of the Optical Society of Korea</i> , 2008 , 12, 178-185		22
151	Ultrabroadband noncollinear optical parametric amplification with LBO crystal. <i>Optics Express</i> , 2008 , 16, 18863-8	3.3	14
150	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
149	Analysis of Parasitic Oscillation and Evaluation of Amplifier Module of Zig-Zag Slab Laser System. <i>Japanese Journal of Applied Physics</i> , 2008 , 47, 5441-5449	1.4	2
148	Nano-structured lithium-tin plane fabrication for laser produced plasma and extreme ultraviolet generation. <i>Laser and Particle Beams</i> , 2008 , 26, 497-501	0.9	8
147	Generation of High Efficiency 2 μ m Laser Pulse from a Periodically Poled 5 mol % MgO-Doped LiNbO3 Optical Parametric Oscillator. <i>Applied Physics Express</i> , 2008 , 1, 022007	2.4	0
146	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
145	Characterization of out-of-band radiation and plasma parameters in laser-produced Sn plasmas for extreme ultraviolet lithography light sources. <i>Journal of Applied Physics</i> , 2008 , 104, 013305	2.5	18
144	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
143	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
142	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
141	High efficiency and high energy parametric wavelength conversion using a large aperture periodically poled MgO:LiNbO3. <i>Optics Communications</i> , 2008 , 281, 3902-3905	2	14
140	Generation of ENergetic Beam Ultimate (GENBU) Laser - Main Laser -. <i>The Review of Laser Engineering</i> , 2008 , 36, 1056-1058	0	2
139	Development of Extreme-Ultraviolet Light Source by Laser-Produced Plasma. <i>The Review of Laser Engineering</i> , 2008 , 36, 1125-1128	0	2
138	Extending Applications of High-Power Lasers. <i>The Review of Laser Engineering</i> , 2008 , 36, 530-537	0	

137	Debris-Free Laser-Assisted Low-Stress Dicing for Multi-Layered MEMS-Separation Method of Glass Layer-. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2008 , 128, 91-96	0.2	2
136	Extreme Ultraviolet (EUV) Radiation from Punched-Out Target. <i>The Review of Laser Engineering</i> , 2008 , 36, 736-741	0	
135	Present status and future prospects of high power lasers. <i>The Review of Laser Engineering</i> , 2008 , 36, S38-S39		
134	Recent results and future prospects of laser fusion research at ILE, Osaka. <i>European Physical Journal D</i> , 2007 , 44, 259-264	1.3	9
133	Effect of pulse width and fluence of femtosecond laser on the size of nanobump array. <i>Applied Surface Science</i> , 2007 , 253, 6555-6557	6.7	79
132	Comprehensive diagnosis of growth rates of the ablative Rayleigh-Taylor instability. <i>Physical Review Letters</i> , 2007 , 98, 045002	7.4	54
131	Topdown femtosecond laser-interference technique for the generation of new nanostructures. <i>Journal of Physics: Conference Series</i> , 2007 , 59, 245-248	0.3	3
130	High-energy, high-contrast, multiterawatt laser pulses by optical parametric chirped-pulse amplification. <i>Optics Letters</i> , 2007 , 32, 2315-7	3	45
129	Fabrication of Low-Density Solid Xenon as Laser-Produced Plasma Extreme Ultraviolet Source. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, L884-L886	1.4	2
128	Simulations on Generating Long Flat-Top Laser Pulses for Fast Ignition of Laser Fusion. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, 6930-6935	1.4	4
127	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
126	Spectroscopic study of debris mitigation with minimum-mass Sn laser plasma for extreme ultraviolet lithography. <i>Applied Physics Letters</i> , 2006 , 88, 171503	3.4	29
125	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
124	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
123	The HALNA project: Diode-pumped solid-state laser for inertial fusion energy. <i>European Physical Journal Special Topics</i> , 2006 , 133, 615-620		13
122	Energy spectra and charge states of debris emitted from laser-produced minimum mass tin plasmas 2006 , 6151, 1051		6
121	10-kJ PW laser for the FIREX-I program. <i>European Physical Journal Special Topics</i> , 2006 , 133, 81-87		48
120	Design for a diode-pumped 1-kJ zig-zag slab laser with cryogenically cooled ceramic Yb:YAG. <i>European Physical Journal Special Topics</i> , 2006 , 133, 641-643		3

119	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
118	Characterization of density profile of laser-produced Sn plasma for 13.5nm extreme ultraviolet source. <i>Applied Physics Letters</i> , 2005 , 86, 201501	3-4	30
117	Characterization of extreme ultraviolet emission from laser-produced spherical tin plasma generated with multiple laser beams. <i>Applied Physics Letters</i> , 2005 , 86, 051501	3-4	93
116	Control of spatial polarization by use of a liquid crystal with an optically treated alignment layer and its application to beam apodization. <i>Applied Optics</i> , 2005 , 44, 3752-8	1-7	4
115	Preparation of Low-Density Macrocellular Tin Dioxide Foam with Variable Window Size. <i>Chemistry of Materials</i> , 2005 , 17, 1115-1122	9-6	30
114	Opacity effect on extreme ultraviolet radiation from laser-produced tin plasmas. <i>Physical Review Letters</i> , 2005 , 95, 235004	7-4	119
113	Evaluation of tin-foil targets for debris mitigation in laser generated EUV source 2005 , 5751, 815		2
112	Properties of EUV and particle generations from laser-irradiated solid- and low-density tin targets 2005 ,		7
111	Dynamic imaging of 13.5 nm extreme ultraviolet emission from laser-produced Sn plasmas. <i>Applied Physics Letters</i> , 2005 , 87, 241502	3-4	13
110	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
109	Electron bunch acceleration and trapping by ponderomotive force of an intense short-pulse laser. <i>Laser and Particle Beams</i> , 2005 , 23,	0-9	32
108	Suppression of the Rayleigh-Taylor instability and its implication for the impact ignition. <i>Plasma Physics and Controlled Fusion</i> , 2004 , 46, B245-B254	2	6
107	Monochromatic imaging and angular distribution measurements of extreme ultraviolet light from laser-produced Sn and SnO ₂ plasmas. <i>Applied Physics Letters</i> , 2004 , 85, 1919-1921	3-4	29
106	Progress and perspectives of fast ignition. <i>Plasma Physics and Controlled Fusion</i> , 2004 , 46, B41-B49	2	14
105	Temporally resolved Schwarzschild microscope for the characterization of extreme ultraviolet emission in laser-produced plasmas. <i>Review of Scientific Instruments</i> , 2004 , 75, 5173-5176	1-7	12
104	Present Status and Future Prospects of Laser Fusion Research at ILE Osaka University. <i>Plasma Science and Technology</i> , 2004 , 6, 2179-2184	1-5	2
103	Intense longitudinal electric fields generated from transverse electromagnetic waves. <i>Applied Physics Letters</i> , 2004 , 84, 3855-3857	3-4	33
102	Electron bunch trapping and compression by an intense focused pulse laser. <i>Physical Review E</i> , 2004 , 69, 056502	2-4	29

101	Fast plasma heating in a cone-attached geometry towards fusion ignition. <i>Nuclear Fusion</i> , 2004 , 44, S276-S283	3-3	35
100	Multisegmented kinoform phase plate for spatial and temporal control of the focal-plane irradiance profile. <i>Optics Express</i> , 2004 , 12, 2888-94	3-3	2
99	Laguerre-Gaussian beam generated with a multilevel spiral phase plate for high intensity laser pulses. <i>Optics Express</i> , 2004 , 12, 3548-53	3-3	233
98	Prepulse-free petawatt laser for a fast ignitor. <i>IEEE Journal of Quantum Electronics</i> , 2004 , 40, 281-293	2	117
97	Properties of EUV emissions from laser-produced tin plasmas 2004 , 5374, 912		5
96	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
95	Characterization of GEKKO/HIPER-Driven Shock Waves for Equation-of-State Experiments in Ultra-High-Pressure Regime. <i>Journal of Plasma and Fusion Research</i> , 2004 , 80, 486-491		1
94	Laser Beams with Spatio-Temporal Phase Modulation. <i>The Review of Laser Engineering</i> , 2004 , 32, 241-246		1
93	Generation of Vector Beams with Axially-Symmetric Polarization. <i>The Review of Laser Engineering</i> , 2004 , 32, 259-264	0	7
92	Preface to the Special Issue on Latent Ability of Laser Beam Revealed with Phase/Polarization Control. <i>The Review of Laser Engineering</i> , 2004 , 32, 230-231	0	
91	Electron bunch acceleration and trapping by the ponderomotive force of an intense short-pulse laser. <i>Physics of Plasmas</i> , 2003 , 10, 4605-4608	2.1	32
90	Basic and integrated studies for fast ignition. <i>Physics of Plasmas</i> , 2003 , 10, 1925-1930	2.1	55
89	Temporal evolution of temperature and density profiles of a laser compressed core (invited). <i>Review of Scientific Instruments</i> , 2003 , 74, 1683-1687	1.7	13
88	Uniform laser ablation via photovoltaic effect of phthalocyanine/perylene derivative. <i>Applied Surface Science</i> , 2002 , 197-198, 808-813	6.7	22
87	Imprint reduction in a plasma layer preformed with x-ray irradiation. <i>Physics of Plasmas</i> , 2002 , 9, 1381-1391		11
86	Single spatial mode experiments on initial laser imprint on direct-driven planar targets. <i>Physics of Plasmas</i> , 2002 , 9, 1734-1744	2.1	15
85	Spectroscopic determination of dynamic plasma gradients in implosion cores. <i>Physical Review Letters</i> , 2002 , 88, 045002	7.4	52
84	Speckle suppression of laser light using liquid crystals aligned by photoisomerization of dye molecules. <i>Applied Physics Letters</i> , 2002 , 81, 5111-5113	3.4	7

83	Fast heating of super-solid density plasmas towards laser fusion ignition. <i>Plasma Physics and Controlled Fusion</i> , 2002 , 44, B109-B119	2	11
82	Intelligent Target Materials to Control Laser Ablation. <i>Fusion Science and Technology</i> , 2002 , 41, 257-260	1.1	10
81	Three-directional spectral dispersion for smoothing of a laser irradiance profile. <i>Optics Letters</i> , 2002 , 27, 725-7	3	35
80	Energetic Proton Generation in a Thin Plastic Foil Irradiated by Intense Femtosecond Lasers. <i>Journal of Nuclear Science and Technology</i> , 2002 , 39, 1-5	1	15
79	Progress of Advanced Fusion Energy Studies with Ultra-Intense Lasers.. <i>Journal of Plasma and Fusion Research</i> , 2002 , 78, 792-798		1
78	Development of wide-field, multi-imaging x-ray streak camera technique with increased image-sampling arrays. <i>Review of Scientific Instruments</i> , 2001 , 72, 755-758	1.7	10
77	Density profile of the ablating plasma produced by soft x-ray irradiation. <i>Review of Scientific Instruments</i> , 2001 , 72, 653-656	1.7	2
76	Fast heating of ultrahigh-density plasma as a step towards laser fusion ignition. <i>Nature</i> , 2001 , 412, 798-802	3.4	780
75	Fast ignitor research at the Institute of Laser Engineering, Osaka University. <i>Physics of Plasmas</i> , 2001 , 8, 2268-2274	2.1	69
74	Photo-reflection and laser-ablation properties of phthalocyanine/perylene derivative bilayer. <i>Synthetic Metals</i> , 2001 , 121, 1445-1446	3.6	23
73	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
72	Frequency Modulation System Using Stimulated Brillouin Scattering and Cross-phase Modulation in Optical Fiber.. <i>The Review of Laser Engineering</i> , 2001 , 29, 184-187	0	2
71	Observation of low-mode implosion nonuniformity of plastic-shell targets in the acceleration phase 2000 , 3886, 457		
70	Two-Dimensional Multi-Lens Array with Circular Aperture Spherical Lens for Flat-Top Irradiation of Inertial Confinement Fusion Target. <i>Optical Review</i> , 2000 , 7, 216-220	0.9	39
69	Indirect-direct hybrid target experiments with the GEKKO XII laser. <i>Nuclear Fusion</i> , 2000 , 40, 547-556	3.3	24
68	Studies of ultra-intense laser plasma interactions for fast ignition. <i>Physics of Plasmas</i> , 2000 , 7, 2014-2022	2.1	103
67	Formation of Initial Perturbation of Rayleigh-Taylor Instability in Supernovae and Laser-irradiated Targets—Are There Any Similarity?. <i>Astrophysical Journal, Supplement Series</i> , 2000 , 127, 219-225	8	6
66	Two-dimensional sampling-image x-ray streak camera for ultrafast imaging of inertial confinement fusion plasmas. <i>Review of Scientific Instruments</i> , 1999 , 70, 620-623	1.7	32

65	Rippled shock propagation and hydrodynamic perturbation growth in laser implosion. <i>Journal of Materials Processing Technology</i> , 1999 , 85, 34-38	5.3	5
64	Direct measurement of laser irradiation uniformity of fusion pellets by the use of X-ray frame images. <i>Fusion Engineering and Design</i> , 1999 , 44, 137-140	1.7	1
63	Observation of implosion dynamics by line emissions from direct-drive fusion capsules. <i>Fusion Engineering and Design</i> , 1999 , 44, 175-180	1.7	
62	Moiré Interferometry of short wavelength Rayleigh-Taylor growth. <i>Review of Scientific Instruments</i> , 1999 , 70, 637-641	1.7	12
61	Analysis of Spherical Target Illumination with Partially Coherent Light through Random Phase Plate. <i>Japanese Journal of Applied Physics</i> , 1998 , 37, 5560-5568	1.4	4
60	One- and two-dimensional fast x-ray imaging of laser-driven implosion dynamics with x-ray streak cameras. <i>Review of Scientific Instruments</i> , 1997 , 68, 828-830	1.7	9
59	Measurements of Rayleigh-Taylor Growth Rate of Planar Targets Irradiated Directly by Partially Coherent Light. <i>Physical Review Letters</i> , 1997 , 78, 250-253	7.4	105
58	Time-resolved, two-dimensional electron-temperature distribution of laser-imploded core plasmas. <i>Review of Scientific Instruments</i> , 1997 , 68, 820-823	1.7	9
57	Fiber scintillator/streak camera detector for burn history measurement in inertial confinement fusion experiment. <i>Review of Scientific Instruments</i> , 1997 , 68, 621-623	1.7	3
56	Time-resolved two-dimensional monochromatic imaging of laser-imploded plasma. <i>Review of Scientific Instruments</i> , 1997 , 68, 817-819	1.7	9
55	Direct-drive hydrodynamic instability experiments on the GEKKO XII laser. <i>Physics of Plasmas</i> , 1997 , 4, 4079-4089	2.1	88
54	Ultrafast two-dimensional x-ray imaging with x-ray streak cameras for laser fusion research (invited). <i>Review of Scientific Instruments</i> , 1997 , 68, 745-749	1.7	21
53	Three dimensional imaging of laser-imploded targets using X-ray computed tomography technique. <i>IEEE Transactions on Nuclear Science</i> , 1997 , 44, 890-893	1.7	2
52	Frequency modulation controlled by cross-phase modulation in optical fiber. <i>Optics Letters</i> , 1997 , 22, 25-7	3	9
51	Review of ICF plasma diagnostics. <i>Fusion Engineering and Design</i> , 1997 , 34-35, 37-44	1.7	1
50	Irradiation uniformity measurement of laser fusion pellets by an X-ray imaging method. <i>Fusion Engineering and Design</i> , 1997 , 34-35, 197-200	1.7	
49	Time- and space-resolved X-ray spectroscopic measurements of hot dense plasma created with laser driven implosions. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 1997 , 58, 585-596	2.1	8
48	Recent progress of implosion experiments with uniformity-improved GEKKO XII laser facility at the Institute of Laser Engineering, Osaka University. <i>Physics of Plasmas</i> , 1996 , 3, 2077-2083	2.1	33

47	Areal density measurement of imploded cryogenic target by energy peak shift of DD-produced protons. <i>Physical Review Letters</i> , 1995 , 75, 3130-3133	7.4	24
46	Dynamic behavior of rippled shock waves and subsequently induced areal-density-perturbation growth in laser-irradiated foils. <i>Physical Review Letters</i> , 1995 , 74, 3608-3611	7.4	57
45	Cryogenic deuterium target experiments with the GEKKO XII, green laser system. <i>Physics of Plasmas</i> , 1995 , 2, 2495-2503	2.1	15
44	Recent progress in laser fusion research at Osaka University: Uniformity and stability issues*. <i>Physics of Plasmas</i> , 1994 , 1, 1653-1661	2.1	14
43	Special Issue on Laser Parameter Control. Coherence Control for Laser Fusion Driver.. <i>The Review of Laser Engineering</i> , 1994 , 22, 635-654	0	
42	Partially coherent light generated by using single and multimode optical fibers in a high-power Nd:glass laser system. <i>Applied Physics Letters</i> , 1993 , 63, 580-582	3.4	48
41	Spectrally dispersed amplified spontaneous emission for improving irradiation uniformity into high power Nd:glass laser system. <i>Journal of Applied Physics</i> , 1993 , 73, 2122-2131	2.5	61
40	Suppression of speckle contrast by using polarization property on second harmonic generation. <i>Optics Communications</i> , 1993 , 103, 185-188	2	23
39	Kinetic effects of electron thermal conduction on implosion hydrodynamics. <i>Physics of Fluids B</i> , 1992 , 4, 417-422		23
38	Novel Diagnostics for Laser Fusion I. Neutron Activation Measurements.. <i>Kakuyō Kenkyū</i> , 1991 , 66, 357-378		
37	Novel Diagnostics for Laser Fusion II. Secondary Nuclear Reaction, X-ray and Neutron Imagings.. <i>Kakuyō Kenkyū</i> , 1991 , 66, 614-630		
36	Observation of Burn and Pusher Regions of Laser-Driven Large-High-Aspect-Ratio Target by Particle Imaging. <i>Japanese Journal of Applied Physics</i> , 1990 , 29, 2135-2138	1.4	2
35	Three-dimensional imaging of laser imploded targets. <i>Journal of Applied Physics</i> , 1990 , 68, 1483-1488	2.5	8
34	Experimental studies on debris collection for radiochemistry in inertial confinement fusion. <i>Review of Scientific Instruments</i> , 1990 , 61, 2623-2627	1.7	4
33	Neutron penumbral imaging at Gekko XII (abstract). <i>Review of Scientific Instruments</i> , 1990 , 61, 3230-3230.	1.7	7
32	Development of x-ray emission computed tomography for ICF research. <i>Review of Scientific Instruments</i> , 1990 , 61, 2783-2785	1.7	5
31	Gated neutron streak camera with a uranium cathode. <i>Review of Scientific Instruments</i> , 1990 , 61, 3592-3595		5
30	X-ray and particle diagnostics of a high-density plasma by laser implosion (invited). <i>Review of Scientific Instruments</i> , 1990 , 61, 3235-3240	1.7	5

29	Thermonuclear burn time and duration in laser-driven high-aspect-ratio targets. <i>Applied Physics Letters</i> , 1989 , 55, 945-947	3.4	10
28	Direct areal density measurement by activation technique for plastic hollow shell implosion experiments. <i>Applied Physics Letters</i> , 1989 , 55, 2072-2074	3.4	9
27	Three-dimensional reconstruction of laser-irradiated targets using URA coded aperture cameras. <i>Optics Communications</i> , 1989 , 71, 249-255	2	13
26	Measurement of D-D burn region using proton penumbral coded aperture imaging. <i>Optics Communications</i> , 1989 , 73, 337-341	2	17
25	Neutron energy spectrum determination by multi-foil activation method in the gekko XII laser inertial fusion experiment. <i>Fusion Engineering and Design</i> , 1989 , 10, 151-156	1.7	1
24	Fuel areal density measurement of laser-imploded targets by use of elastically scattered protons. <i>Applied Physics Letters</i> , 1989 , 54, 1308-1310	3.4	13
23	Measurement of Yield and Energy Spectrum of Secondary Electrons Emitted by Fission from Uranium-Oxide Cathode for Neutron Streak Tube. <i>Journal of Nuclear Science and Technology</i> , 1988 , 25, 780-788	1	2
22	Scalings of implosion experiments for high neutron yield. <i>Physics of Fluids</i> , 1988 , 31, 2884		152
21	D-T Neutron Measurements on Gekko XII Laser Inertial Fusion Plasmas by Multi-Activation Foil Method. <i>Journal of Nuclear Science and Technology</i> , 1988 , 25, 548-551	1	1
20	High thermonuclear neutron yield by shock multiplexing implosion with GEKKO XII green laser. <i>Nuclear Fusion</i> , 1987 , 27, 19-30	3.3	35
19	Study of fuel-pusher mixing in laser-driven implosions, using secondary nuclear fusion reactions. <i>Physical Review Letters</i> , 1987 , 59, 2635-2638	7.4	21
18	Calibration of neutron detector response to 2.45 MeV neutrons based on 3.02 MeV proton tracks in CR39. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1987 , 254, 135-138	1.2	7
17	Characteristics of uranium-oxide cathode for neutron streak camera. <i>Review of Scientific Instruments</i> , 1986 , 57, 1743-1745	1.7	6
16	Experimental determination of fuel density-radius product of inertial confinement fusion targets using secondary nuclear fusion reactions. <i>Applied Physics Letters</i> , 1986 , 49, 555-557	3.4	53
15	Laser implosion of high-aspect-ratio targets produces thermonuclear neutron yields exceeding 1012 by use of shock multiplexing. <i>Physical Review Letters</i> , 1986 , 56, 1575-1578	7.4	49
14	Radiochemistry and secondary reactions for the diagnostics of laser-driven fusion plasmas. <i>Review of Scientific Instruments</i> , 1986 , 57, 1731-1733	1.7	18
13	Laser Fusion Implosion Experiments. <i>The Review of Laser Engineering</i> , 1986 , 14, 1090-1132	0	
12	X-ray and radioactive measurements in ICF research at ILE Osaka (invited). <i>Review of Scientific Instruments</i> , 1985 , 56, 1128-1132	1.7	9

11	Multiple inner-shell vacancies in laser-irradiated Au plasma. <i>Physical Review Letters</i> , 1985 , 54, 1999-2002	7.4	13
10	Radiation from Laser-Produced Plasmas and Diagnostic Applications. <i>Kakuyō Kenkyū</i> , 1985 , 53, 192-212		
9	Random Phasing of High-Power Lasers for Uniform Target Acceleration and Plasma-Instability Suppression. <i>Physical Review Letters</i> , 1984 , 53, 1057-1060	7.4	544
8	Efficient Spherical Compression of Cannonball Targets with 1.052- μm Laser Beams. <i>Japanese Journal of Applied Physics</i> , 1983 , 22, L551-L553	1.4	10
7	Double-Shell-Target Implosion by Four Beams from the GEKKO IV Laser System. <i>Physical Review Letters</i> , 1983 , 51, 570-573	7.4	5
6	Point-source x-ray backlighting for high-density plasma diagnostics. <i>Applied Physics Letters</i> , 1983 , 42, 160-162	3.4	14
5	Intensity dependence of classical and collective absorption processes in laser produced plasmas at 1.053 μm and 0.527 μm . <i>IEEE Transactions on Plasma Science</i> , 1982 , 10, 55-58	1.3	5
4	X-ray refraction effect and density determination of steep-gradient, high-density plasma. <i>Optics Communications</i> , 1982 , 44, 48-52	2	8
3	Model for Cannonball-Like Acceleration of Laser-Irradiated Targets. <i>Japanese Journal of Applied Physics</i> , 1981 , 20, L477-L480	1.4	29
2	Direct Measurement of Vibrational Decay and Fluorescence Lifetime of Erythrosine Dye in S1-Excited State. <i>Japanese Journal of Applied Physics</i> , 1978 , 17, 243-244	1.4	3
1	Energetic Proton Generation in a Thin Plastic Foil Irradiated by Intense Femtosecond Lasers		9