

Katsunobu Nishihara

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315
papers

7,427
citations

45
h-index

74
g-index

372
ext. papers

7,901
ext. citations

2.5
avg, IF

5.2
L-index

#	Paper	IF	Citations
315	Chaperone coexpression plasmids: differential and synergistic roles of DnaK-DnaJ-GrpE and GroEL-GroES in assisting folding of an allergen of Japanese cedar pollen, Cryj2, in Escherichia coli. <i>Applied and Environmental Microbiology</i> , 1998 , 64, 1694-9	4.8	305
314	Interaction Physics of the Fast Ignitor Concept. <i>Physical Review Letters</i> , 1996 , 77, 2483-2486	7.4	253
313	Proposed double-layer target for the generation of high-quality laser-accelerated ion beams. <i>Physical Review Letters</i> , 2002 , 89, 175003	7.4	246
312	Overexpression of trigger factor prevents aggregation of recombinant proteins in Escherichia coli. <i>Applied and Environmental Microbiology</i> , 2000 , 66, 884-9	4.8	232
311	Beat-wave excitation of plasma wave and observation of accelerated electrons. <i>Physical Review Letters</i> , 1992 , 68, 48-51	7.4	169
310	Scalings of implosion experiments for high neutron yield. <i>Physics of Fluids</i> , 1988 , 31, 2884		152
309	Molecular dynamics simulation of femtosecond ablation and spallation with different interatomic potentials. <i>Applied Surface Science</i> , 2009 , 255, 9592-9596	6.7	146
308	Opacity effect on extreme ultraviolet radiation from laser-produced tin plasmas. <i>Physical Review Letters</i> , 2005 , 95, 235004	7.4	119
307	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
306	Rarefaction Ion Acoustic Solitons in Two-Electron-Temperature Plasma. <i>Journal of the Physical Society of Japan</i> , 1981 , 50, 4047-4053	1.5	109
305	High density collimated beams of relativistic ions produced by petawatt laser pulses in plasmas. <i>Physical Review E</i> , 2000 , 62, 7271-81	2.4	95
304	Formation of Electromagnetic Postsolitons in Plasmas. <i>Physical Review Letters</i> , 2001 , 87,	7.4	94
303	Bursts of Superreflected Laser Light from Inhomogeneous Plasmas due to the Generation of Relativistic Solitary Waves. <i>Physical Review Letters</i> , 1999 , 83, 3434-3437	7.4	94
302	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
301	Richtmyer-Meshkov instability: theory of linear and nonlinear evolution. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010 , 368, 1769-807	3	91
300	High energy ions generated by laser driven Coulomb explosion of cluster. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2001 , 464, 98-102	1.2	90
299	Direct-drive hydrodynamic instability experiments on the GEKKO XII laser. <i>Physics of Plasmas</i> , 1997 , 4, 4079-4089	2.1	88

298	Three-dimensional relativistic electromagnetic subcycle solitons. <i>Physical Review Letters</i> , 2002 , 89, 27506-27509		86
297	Linear perturbation growth at a shocked interface. <i>Physics of Plasmas</i> , 1996 , 3, 3761-3776	2.1	79
296	Three-dimensional particle-in-cell simulations of energetic electron generation and transport with relativistic laser pulses in overdense plasmas. <i>Physical Review E</i> , 2002 , 65, 046408	2.4	76
295	Propagation of a Rippled Shock Wave Driven by Nonuniform Laser Ablation. <i>Physical Review Letters</i> , 1997 , 78, 1920-1923	7.4	75
294	Generation of collimated beams of relativistic ions in laser-plasma interactions. <i>JETP Letters</i> , 2000 , 71, 407-411	1.2	74
293	Two-temperature relaxation and melting after absorption of femtosecond laser pulse. <i>Applied Surface Science</i> , 2009 , 255, 9712-9716	6.7	73
292	Ion acceleration by superintense laser pulses in plasmas. <i>JETP Letters</i> , 1999 , 70, 82-89	1.2	73
291	Asymptotic growth in the linear Richtmyer-Meshkov instability. <i>Physics of Plasmas</i> , 1997 , 4, 1028-1038	2.1	71
290	Nanospallation induced by an ultrashort laser pulse. <i>Journal of Experimental and Theoretical Physics</i> , 2008 , 107, 1-19	1	71
289	Generation of high-energy protons from the Coulomb explosion of hydrogen clusters by intense femtosecond laser pulses. <i>Physical Review A</i> , 2004 , 69,	2.6	69
288	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
287	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
286	Suppression of the Rayleigh-Taylor instability due to self-radiation in a multiablation target. <i>Physical Review Letters</i> , 2004 , 92, 195001	7.4	67
285	Rayleigh-Taylor and Richtmyer-Meshkov instabilities for fluids with a finite density ratio. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003 , 317, 470-476	2.3	66
284	Ion energy spectrum of expanding laser-plasma with limited mass. <i>Physics of Plasmas</i> , 2005 , 12, 062706	2.1	64
283	Shock Wave Structure in Lennard-Jones Crystal via Molecular Dynamics. <i>Physical Review Letters</i> , 1999 , 83, 1175-1178	7.4	63
282	MAGNETIC FIELD AMPLIFICATION ASSOCIATED WITH THE RICHTMYER-MESHKOV INSTABILITY. <i>Astrophysical Journal</i> , 2012 , 758, 126	4.7	62
281	Molecular-dynamics simulation of rarefaction waves in media that can undergo phase transitions. <i>JETP Letters</i> , 2000 , 71, 167-172	1.2	58

280	Three-dimensional Rayleigh-Taylor instability of spherical systems. <i>Physical Review Letters</i> , 1990 , 65, 432-435	7.4	56
279	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
278	Anisotropic Coulomb explosion of C60 irradiated with a high-intensity femtosecond laser pulse. <i>Journal of Chemical Physics</i> , 2000 , 112, 5012-5020	3.9	55
277	Relativistic Interaction of Laser Pulses with Plasmas. <i>Reviews of Plasma Physics</i> , 2001 , 227-335		55
276	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
275	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
274	Magnetically insulated inertial fusion: A new approach to controlled thermonuclear fusion. <i>Physical Review Letters</i> , 1986 , 56, 139-142	7.4	51
273	Dynamics of plume and crater formation after action of femtosecond laser pulse. <i>Applied Surface Science</i> , 2007 , 253, 6276-6282	6.7	50
272	New mechanism of the formation of the nanorelief on a surface irradiated by a femtosecond laser pulse. <i>JETP Letters</i> , 2008 , 87, 423-427	1.2	48
271	Multi-layered flyer accelerated by laser induced shock waves. <i>Physics of Plasmas</i> , 2000 , 7, 676-680	2.1	47
270	Destruction of a solid film under the action of ultrashort laser pulse. <i>JETP Letters</i> , 2003 , 77, 606-610	1.2	43
269	Wakeless triple-soliton accelerator. <i>Physical Review Letters</i> , 1986 , 57, 1421-1424	7.4	43
268	Thresholds for front-side ablation and rear-side spallation of metal foil irradiated by femtosecond laser pulse. <i>Applied Physics A: Materials Science and Processing</i> , 2008 , 92, 797-801	2.6	42
267	Plasma physics and laser development for the Fast-Ignition Realization Experiment (FIREX) Project. <i>Nuclear Fusion</i> , 2009 , 49, 104024	3.3	41
266	Generation of high-quality charged particle beams during the acceleration of ions by high-power laser radiation. <i>Plasma Physics Reports</i> , 2002 , 28, 975-991	1.2	41
265	Rayleigh-Taylor instability on the pusher-fuel contact surface of stagnating targets. <i>Physics of Fluids B</i> , 1990 , 2, 2715-2730		41
264	Transitions and the effects of configuration interaction in the spectra of Sn XV and Sn XVIII. <i>Physical Review A</i> , 2009 , 79,	2.6	40
263	Critical magnetic field strength for suppression of the Richtmyer-Meshkov instability in plasmas. <i>Physical Review Letters</i> , 2013 , 111, 205001	7.4	39

262	Low-threshold ablation of dielectrics irradiated by picosecond soft x-ray laser pulses. <i>Applied Physics Letters</i> , 2009 , 94, 231107	3.4	39
261	Nonlinear evolution of an interface in the Richtmyer-Meshkov instability. <i>Physical Review E</i> , 2003 , 67, 036301	2.4	39
260	Ion generation in a low-density plastic foam by interaction with intense femtosecond laser pulses. <i>Physical Review E</i> , 2004 , 69, 026401	2.4	39
259	Coulomb explosion of benzene induced by an intense laser field. <i>Journal of Chemical Physics</i> , 2002 , 117, 3180-3189	3.9	39
258	Prepulse and amplified spontaneous emission effects on the interaction of a petawatt class laser with thin solid targets. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014 , 745, 150-163	1.2	38
257	Irradiation nonuniformity due to imperfections of laser beams. <i>Journal of Applied Physics</i> , 1993 , 74, 802-808		38
256	Vortex core dynamics and singularity formations in incompressible Richtmyer-Meshkov instability. <i>Physical Review E</i> , 2006 , 73, 026304	2.4	36
255	Effect of the satellite lines and opacity on the extreme ultraviolet emission from high-density Xe plasmas. <i>Applied Physics Letters</i> , 2004 , 85, 5857-5859	3.4	36
254	Generation of high-amplitude plasma waves for particle acceleration by cross-modulated laser wake fields. <i>Physics of Plasmas</i> , 2002 , 9, 3147-3153	2.1	36
253	Measured laser fusion gains reproduced by self-similar volume compression and volume ignition for NIF conditions. <i>Journal of Plasma Physics</i> , 1998 , 60, 743-760	2.7	36
252	Characterization of extreme ultraviolet emission using the fourth harmonic of a Nd:YAG laser. <i>Applied Physics Letters</i> , 2005 , 86, 181107	3.4	35
251	High thermonuclear neutron yield by shock multiplexing implosion with GEKKO XII green laser. <i>Nuclear Fusion</i> , 1987 , 27, 19-30	3.3	35
250	Improvement of productivity of active horseradish peroxidase in Escherichia coli by coexpression of Dsb proteins. <i>Journal of Bioscience and Bioengineering</i> , 2000 , 90, 600-6	3.3	35
249	EUV emission spectra in collisions of multiply charged Sn ions with He and Xe. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2010 , 43, 065204	1.3	34
248	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
247	Solitons and Shock Waves in Two-Electron-Temperature Plasmas. <i>Journal of the Physical Society of Japan</i> , 1985 , 54, 572-578	1.5	33
246	Modeling of radiative properties of Sn plasmas for extreme-ultraviolet source. <i>Journal of Applied Physics</i> , 2010 , 107, 113303	2.5	32
245	Ablation effects on weakly nonlinear Rayleigh-Taylor instability with a finite bandwidth. <i>Physical Review Letters</i> , 2002 , 89, 115001	7.4	32

244	First observation of density profile in directly laser-driven polystyrene targets for ablative Rayleigh-Taylor instability research. <i>Physics of Plasmas</i> , 2003 , 10, 4784-4789	2.1	31
243	Deflagration Waves in Laser Compression. I. <i>Journal of the Physical Society of Japan</i> , 1978 , 45, 2001-2008	1.5	31
242	Interaction of short laser pulses with metals at moderate intensities. <i>Applied Physics A: Materials Science and Processing</i> , 2008 , 92, 939-943	2.6	30
241	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
240	Preparation of Low-Density Macrocellular Tin Dioxide Foam with Variable Window Size. <i>Chemistry of Materials</i> , 2005 , 17, 1115-1122	9.6	30
239	Instability of a contact surface driven by a nonuniform shock wave. <i>Physical Review E</i> , 1996 , 53, R5592-R5595	1.1	30
238	Efficient Shell Implosion and Target Design. <i>Japanese Journal of Applied Physics</i> , 1987 , 26, 1132-1145	1.4	30
237	Scaling Laws of Plasma Ablation by Thermal Radiation. <i>Japanese Journal of Applied Physics</i> , 1982 , 21, L571-L573	1.4	30
236	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
235	Suppression of Rayleigh-Taylor instability due to radiative ablation in brominated plastic targets. <i>Physics of Plasmas</i> , 2004 , 11, 2814-2822	2.1	28
234	Soliton synchrotron afterglow in a laser plasma. <i>Physical Review Letters</i> , 2004 , 92, 255001	7.4	28
233	Magnetically insulated and inertially confined fusion (MICF). <i>Nuclear Fusion</i> , 1988 , 28, 369-387	3.3	28
232	Spallative Ablation of Metals and Dielectrics. <i>Contributions To Plasma Physics</i> , 2009 , 49, 455-466	1.4	27
231	Analytical and numerical study on a vortex sheet in incompressible Richtmyer-Meshkov instability in cylindrical geometry. <i>Physical Review E</i> , 2006 , 74, 066303	2.4	27
230	Ablated matter expansion and crater formation under the action of ultrashort laser pulse. <i>Journal of Experimental and Theoretical Physics</i> , 2006 , 103, 183-197	1	27
229	Parametric instabilities of intense lasers from interaction with relativistic hot plasmas. <i>Physical Review E</i> , 2000 , 61, 4362-9	2.4	27
228	Optimization of Extreme Ultraviolet Emission from Laser-Produced Tin Plasmas Based on Radiation Hydrodynamics Simulations. <i>Plasma and Fusion Research</i> , 2008 , 3, 043-043	0.5	27
227	Lyapunov exponent of a many body system and its transport coefficients. <i>Physical Review Letters</i> , 1996 , 76, 1812-1815	7.4	26

226	Fast ignition and related plasma physics issues with high-intensity lasers. <i>Plasma Physics and Controlled Fusion</i> , 1997 , 39, A145-A151	2	25
225	Feasibility of Using Laser Ion Accelerators in Proton Therapy. <i>AIP Conference Proceedings</i> , 2004 ,	0	25
224	Generation of subcycle relativistic solitons by super intense laser pulses in plasmas. <i>Physica D: Nonlinear Phenomena</i> , 2001 , 152-153, 682-693	3.3	25
223	Indirect-direct hybrid target experiments with the GEKKO XII laser. <i>Nuclear Fusion</i> , 2000 , 40, 547-556	3.3	24
222	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
221	Smoothing of Nonuniformity by X-ray Radiation in Cannonball Target. <i>Japanese Journal of Applied Physics</i> , 1986 , 25, 242-247	1.4	24
220	Shock wave structure in dense gases. <i>JETP Letters</i> , 1997 , 66, 99-105	1.2	23
219	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
218	Multiscale character of the nonlinear coherent dynamics in the Rayleigh-Taylor instability. <i>Physical Review E</i> , 2006 , 73, 036310	2.4	23
217	EUV emission spectra from excited multiply charged xenon ions produced in charge-transfer collisions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2005 , 235, 331-336	1.2	23
216	Anisotropic filamentation instability of intense laser beams in plasmas near the critical density. <i>Physical Review E</i> , 2001 , 64, 066409	2.4	23
215	Model of hydrodynamic perturbation growth in the start-up phase of laser implosion. <i>Physical Review E</i> , 1998 , 58, 3744-3767	2.4	23
214	Particle simulation of Lyapunov exponents in one-component strongly coupled plasmas. <i>Physical Review E</i> , 1997 , 55, 3439-3449	2.4	22
213	Simulation of the EUV spectrum of Xe and Sn plasmas. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2004 , 10, 1307-1314	3.8	22
212	Polarization effects and anisotropy in three-dimensional relativistic self-focusing. <i>Physical Review E</i> , 2002 , 65, 045402	2.4	22
211	Present status of fast ignition realization experiment and inertial fusion energy development. <i>Nuclear Fusion</i> , 2013 , 53, 104021	3.3	21
210	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
209	Production of ion beams in high-power laser-plasma interactions and their applications. <i>Laser and Particle Beams</i> , 2004 , 22, 19-24	0.9	21

208	Feed-out of rear surface perturbation due to rarefaction wave in laser-irradiated targets. <i>Physical Review Letters</i> , 2000 , 84, 5331-4	7.4	21
207	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
206	Extreme Ultraviolet Radiation Transport in Laser-Irradiated High-Z Metal Foils. <i>Physical Review Letters</i> , 1981 , 47, 1000-1003	7.4	21
205	Coulomb explosion of a cluster irradiated by a high intensity laser pulse. <i>Laser and Particle Beams</i> , 2000 , 18, 503-506	0.9	20
204	Two dimensional radiation hydrodynamic simulation for extreme ultra-violet emission from laser-produced tin plasmas. <i>Journal of Physics: Conference Series</i> , 2008 , 112, 042048	0.3	19
203	Feasibility of Lead-Bismuth-Cooled Accelerator-Driven System for Minor-Actinide Transmutation. <i>Nuclear Technology</i> , 2008 , 161, 315-328	1.4	19
202	Fully nonlinear evolution of a cylindrical vortex sheet in incompressible Richtmyer-Meshkov instability. <i>Physical Review E</i> , 2006 , 73, 055304	2.4	19
201	Blast-wave-sphere interaction using a laser-produced plasma: an experiment motivated by supernova 1987A. <i>Physical Review E</i> , 2001 , 64, 047402	2.4	19
200	Mode coupling theory in ablative Rayleigh-Taylor instability. <i>Physics of Plasmas</i> , 1995 , 2, 4606-4616	2.1	19
199	Charge exchange spectroscopy in Sn ^q (q= 6-15)-He collisions. <i>Journal of Physics: Conference Series</i> , 2007 , 58, 235-238	0.3	18
198	Planar shock wave generated by uniform irradiation from two overlapped partially coherent laser beams. <i>Journal of Applied Physics</i> , 2001 , 89, 2571-2575	2.5	18
197	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
196	Time-resolved two-dimensional profiles of electron density and temperature of laser-produced tin plasmas for extreme-ultraviolet lithography light sources. <i>Scientific Reports</i> , 2017 , 7, 12328	4.9	17
195	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
194	4d-4f unresolved transition arrays of xenon and tin ions in charge exchange collisions. <i>Journal of Physics: Conference Series</i> , 2007 , 58, 231-234	0.3	17
193	Sheath dynamics induced by ion-acoustic rarefaction wave. <i>Physics of Fluids B</i> , 1993 , 5, 3441-3446		17
192	Neutron production from a shell-confined carbon-deuterium plasma by 1.06 μm laser irradiation. <i>Applied Physics Letters</i> , 1987 , 51, 2195-2196	3.4	17
191	Theoretical investigation of the spectrum and conversion efficiency of short wavelength extreme-ultraviolet light sources based on terbium plasmas. <i>Applied Physics Letters</i> , 2010 , 97, 231501	3.4	16

190	Verification of high-energy transport codes on the basis of activation data. <i>Physical Review C</i> , 2011 , 84,	2.7	16
189	Coulomb explosion of hexa-fluorobenzene induced by an intense laser field. <i>Chemical Physics Letters</i> , 2005 , 404, 379-383	2.5	16
188	Hydrodynamic perturbation growth in start-up phase in laser implosion. <i>Physics of Plasmas</i> , 1998 , 5, 1945-1952	1.6	16
187	Interaction physics of the fast ignitor concept. <i>Laser and Particle Beams</i> , 1997 , 15, 557-564	0.9	15
186	Tin laser-produced plasma source modeling at 13.5nm for extreme ultraviolet lithography. <i>Applied Physics Letters</i> , 2008 , 92, 151501	3.4	15
185	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
184	Cryogenic deuterium target experiments with the GEKKO XII, green laser system. <i>Physics of Plasmas</i> , 1995 , 2, 2495-2503	2.1	15
183	Deflagration Waves Supported by Thermal Radiation. <i>Journal of the Physical Society of Japan</i> , 1980 , 48, 993-997	1.5	15
182	Magnetic field generation due to resonance absorption. <i>Physics of Fluids</i> , 1976 , 19, 1833		15
181	EUV spectroscopy of Xe ions from the large helical device at the National Institute for Fusion Science for stable plasmas and plasmas undergoing radiation collapse. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2008 , 41, 035703	1.3	14
180	The interactions of ultra-short high-intensity laser pulses with large molecules and clusters: Experimental and computational studies. <i>Physics of Plasmas</i> , 2001 , 8, 2517-2524	2.1	14
179	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
178	Secondary nuclear fusion reactions as evidence of electron degeneracy in highly compressed fusion fuel. <i>Laser and Particle Beams</i> , 1990 , 8, 609-620	0.9	14
177	A new dynamical domain decomposition method for parallel molecular dynamics simulation 2005 ,		13
176	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
175	Laboratory simulation of the collision of supernova 1987A with its circumstellar ring nebula. <i>Plasma Physics Reports</i> , 2001 , 27, 843-851	1.2	13
174	Generation of one-cycle laser pulses by use of high-amplitude plasma waves. <i>Physical Review E</i> , 2000 , 62, 7258-65	2.4	13
173	Nonlinear Dynamics of Non-uniform Current-Vortex Sheets in Magnetohydrodynamic Flows. <i>Journal of Nonlinear Science</i> , 2017 , 27, 531-572	2.8	12

172	Identification of 4d $\bar{5}p$ transitions in the spectra of Sn XV $\bar{5}n$ XIX recorded from collisions between Sn ions and He. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009 , 42, 165207	1.3	12
171	Laser ablation and spallation of crystalline aluminum simulated by molecular dynamics. <i>Journal of Physics: Conference Series</i> , 2008 , 112, 042080	0.3	12
170	Simulation of the expansion of a crystal heated by an ultrashort laser pulse. <i>Applied Surface Science</i> , 2007 , 253, 6390-6393	6.7	12
169	Orientation Dependence of Shock Structure with Melting in L-J Crystal from Molecular Dynamics. <i>Progress of Theoretical Physics Supplement</i> , 2000 , 138, 223-228		11
168	Fermi-degeneracy and discrete-ion effects in the spherical-cell model and electron-electron correlation effects in hot dense plasmas. <i>Physical Review A</i> , 1992 , 46, 6596-6607	2.6	11
167	Thermonuclear Reaction Wave in High-Density Plasma. <i>Journal of the Physical Society of Japan</i> , 1977 , 43, 1393-1399	1.5	11
166	Conversion Efficiency of LPP Sources339-370		11
165	Single-event high-compression inertial confinement fusion at low temperatures compared with two-step fast ignitor. <i>Journal of Plasma Physics</i> , 2003 , 69, 413-429	2.7	10
164	Multi-electron correlations in atomic or ionic excited states. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2005 , 144-147, 1227-1228	1.7	10
163	Inertial confinement fusion research by particle beams at ILE Osaka. <i>Laser and Particle Beams</i> , 1983 , 1, 29-65	0.9	10
162	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
161	Pellet Implosion and Interaction Studies by Gekko XII Green Laser 1986 , 395-419		10
160	Analysis of the emission spectrum of Xe and Sn 2006 ,		9
159	Dynamics and stability of a stagnating hot spot. <i>Physics of Plasmas</i> , 1995 , 2, 3466-3472	2.1	9
158	Reduction in bremsstrahlung emission from hot, dense binary-ionic-mixture plasmas. <i>Physical Review A</i> , 1990 , 42, 3532-3543	2.6	9
157	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
156	Weak Thermonuclear Reaction Wave in High-Density Plasma. <i>Journal of the Physical Society of Japan</i> , 1976 , 41, 1774-1777	1.5	9
155	Production of intense, pulsed, and point-like neutron source from deuterated plastic cavity by mono-directional kilo-joule laser irradiation. <i>Applied Physics Letters</i> , 2017 , 111, 233506	3.4	8

154	Atomic modeling of the plasma EUV sources. <i>High Energy Density Physics</i> , 2009 , 5, 147-151	1.2	8
153	Theoretical and experimental study of hydrodynamics of metal target irradiated by ultrashort laser pulse 2008 ,		8
152	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
151	Atomic modeling of the plasma EUV sources. <i>High Energy Density Physics</i> , 2007 , 3, 250-255	1.2	8
150	Atomistic Dynamics of the Richtmyer-Meshkov Instability in Cylindrical and Planar Geometries. <i>AIP Conference Proceedings</i> , 2006 ,	0	8
149	Gain measurements of the C VI 3d π p transition (18.2 nm) from the wall-confined carbon plasmas produced by a CO ₂ laser. <i>Applied Physics Letters</i> , 1989 , 55, 223-225	3.4	8
148	Three-dimensional imaging of laser imploded targets. <i>Journal of Applied Physics</i> , 1990 , 68, 1483-1488	2.5	8
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