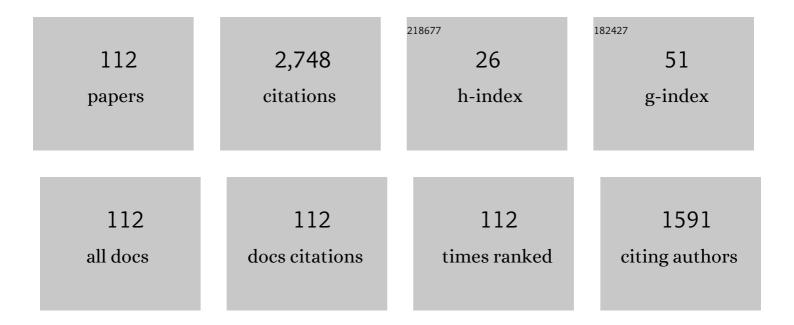
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Modeling Astrophysical Phenomena in the Laboratory with Intense Lasers. Science, 1999, 284, 1488-1493.	12.6	369
2	Observation of magnetic field generation via the Weibel instability in interpenetrating plasma flows. Nature Physics, 2015, 11, 173-176.	16.7	236
3	Scalings of implosion experiments for high neutron yield. Physics of Fluids, 1988, 31, 2884.	1.4	165
4	Nonrelativistic Collisionless Shocks in Unmagnetized Electron-Ion Plasmas. Astrophysical Journal, 2008, 681, L93-L96.	4.5	137
5	Time Evolution of Collisionless Shock in Counterstreaming Laser-Produced Plasmas. Physical Review Letters, 2011, 106, 175002.	7.8	127
6	Self-organized electromagnetic field structures in laser-produced counter-streaming plasmas. Nature Physics, 2012, 8, 809-812.	16.7	118
7	X-ray astronomy in the laboratory with a miniature compact object produced by laser-driven implosion. Nature Physics, 2009, 5, 821-825.	16.7	113
8	Characterizing counter-streaming interpenetrating plasmas relevant to astrophysical collisionless shocks. Physics of Plasmas, 2012, 19, .	1.9	101
9	Numerical study of pair creation by ultraintense lasers. Physics of Plasmas, 2002, 9, 1505-1512.	1.9	82
10	Studying astrophysical collisionless shocks with counterstreaming plasmas from high power lasers. High Energy Density Physics, 2012, 8, 38-45.	1.5	82
11	Electrostatic and electromagnetic instabilities associated with electrostatic shocks: Two-dimensional particle-in-cell simulation. Physics of Plasmas, 2010, 17, 032114.	1.9	78
12	High-Mach number collisionless shock and photo-ionized non-LTE plasma for laboratory astrophysics with intense lasers. Plasma Physics and Controlled Fusion, 2008, 50, 124057.	2.1	60
13	NONRELATIVISTIC COLLISIONLESS SHOCKS IN WEAKLY MAGNETIZED ELECTRON-ION PLASMAS: TWO-DIMENSIONAL PARTICLE-IN-CELL SIMULATION OF PERPENDICULAR SHOCK. Astrophysical Journal, 2010, 721, 828-842.	4.5	58
14	Collisionless shock experiments with lasers and observation of Weibel instabilities. Physics of Plasmas, 2015, 22, .	1.9	51
15	Collisionless shock generation in high-speed counterstreaming plasma flows by a high-power laser. Physics of Plasmas, 2010, 17, .	1.9	50
16	Transition from Collisional to Collisionless Regimes in Interpenetrating Plasma Flows on the National Ignition Facility. Physical Review Letters, 2017, 118, 185003.	7.8	49
17	Soft xâ€ray spectra of highly ionized elements with atomic numbers ranging from 57 to 82 produced by compact lasers. Journal of Applied Physics, 1994, 75, 1923-1930.	2.5	42
18	Study of indirectly driven implosion by xâ€ray spectroscopic measurements. Physics of Plasmas, 1995, 2, 2063-2074.	1.9	42

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19	Measured laser fusion gains reproduced by self-similar volume compression and volume ignition for NIF conditions. Journal of Plasma Physics, 1998, 60, 743-760.	2.1	38
20	Visualizing electromagnetic fields in laser-produced counter-streaming plasma experiments for collisionless shock laboratory astrophysics. Physics of Plasmas, 2013, 20, .	1.9	36
21	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
22	Kelvin-Helmholtz Turbulence Associated with Collisionless Shocks in Laser Produced Plasmas. Physical Review Letters, 2012, 108, 195004.	7.8	34
23	Atomic Number Scaling of the Nickel-Like Soft X-Ray Lasers. International Journal of Modern Physics B, 1997, 11, 945-990.	2.0	33
24	Experimental evidence and theoretical analysis of photoionized plasma under x-ray radiation produced by an intense laser. Physics of Plasmas, 2008, 15, .	1.9	28
25	Magnetic field production via the Weibel instability in interpenetrating plasma flows. Physics of Plasmas, 2017, 24, .	1.9	27
26	Recent progress of laboratory astrophysics with intense lasers. High Power Laser Science and Engineering, 2021, 9, .	4.6	27
27	Collisionless Shocks Driven by Supersonic Plasma Flows with Self-Generated Magnetic Fields. Physical Review Letters, 2019, 123, 055002.	7.8	26
28	Thomson scattering measurement of a shock in laser-produced counter-streaming plasmas. Physics of Plasmas, 2013, 20, .	1.9	25
29	Model experiment of cosmic ray acceleration due to an incoherent wakefield induced by an intense laser pulse. Physics of Plasmas, 2011, 18, 010701.	1.9	23
30	JET FORMATION IN COUNTERSTREAMING COLLISIONLESS PLASMAS. Astrophysical Journal, 2009, 707, L137-L141.	4.5	21
31	Pusherless implosion, pulse tailoring and ignition scaling law for laser fusion. Laser and Particle Beams, 1989, 7, 249-258.	1.0	20
32	The scalability of the accretion column in magnetic cataclysmic variables: the POLAR project. Astrophysics and Space Science, 2011, 336, 81-85.	1.4	19
33	Maximizing magnetic field generation in high power laser–solid interactions. High Power Laser Science and Engineering, 2019, 7, .	4.6	19
34	Cryogenic deuterium target experiments with the GEKKO XII, green laser system. Physics of Plasmas, 1995, 2, 2495-2503.	1.9	18
35	Monochromatic x-ray imaging with bent crystals for laser fusion research. Review of Scientific Instruments, 2001, 72, 744-747.	1.3	17
36	Effects of Thermal Conduction and Compressibility on Rayleigh-Taylor Instability. Journal of the Physical Society of Japan, 1980, 48, 1793-1794.	1.6	16

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37	Requirement of uniformity for fuel ignition and uniformity in high neutron yield implosion. Laser and Particle Beams, 1989, 7, 175-187.	1.0	16
38	Single spatial mode experiments on initial laser imprint on direct-driven planar targets. Physics of Plasmas, 2002, 9, 1734-1744.	1.9	15
39	Laboratory simulation of the collision of supernova 1987A with its circumstellar ring nebula. Plasma Physics Reports, 2001, 27, 843-851.	0.9	14
40	Highly radiative shock experiments driven by GEKKO XII. Astrophysics and Space Science, 2011, 336, 213-218.	1.4	14
41	Ionization and reflux dependence of magnetic instability generation and probing inside laser-irradiated solid thin foils. Physics of Plasmas, 2017, 24, 103115.	1.9	14
42	Time-resolved, two-dimensional electron-temperature distribution of laser-imploded core plasmas. Review of Scientific Instruments, 1997, 68, 820-823.	1.3	13
43	Kinetic effects on the electron thermal transport in ignition target design. Physics of Plasmas, 1996, 3, 3420-3424.	1.9	12
44	Imprint reduction in a plasma layer preformed with x-ray irradiation. Physics of Plasmas, 2002, 9, 1381-1391.	1.9	12
45	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
46	Hydrodynamic Instability of Ionization Front in HII Regions: From Linear to Nonlinear Evolution. Astrophysics and Space Science, 2005, 298, 197-202.	1.4	11
47	Experimental results to study astrophysical plasma jets using Intense Lasers. Astrophysics and Space Science, 2009, 322, 25-29.	1.4	11
48	Formation of density inhomogeneity in laser produced plasmas forÂaÂtest bed of magnetic field amplification in supernova remnants. Astrophysics and Space Science, 2011, 336, 269-272.	1.4	11
49	Collisionless electrostatic shock generation using high-energy laser systems. Advances in Physics: X, 2016, 1, 425-443.	4.1	10
50	Resonant Excitation of High Amplitude Oscillations and Hydrodynamic Wave Breaking in a Streaming Cold Plasma. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1982, 37, 208-218.	1.5	8
51	Preliminary Studies of Direct Energy Conversion in a D- ³ He Inertial Confinement Fusion Reactor. Fusion Science and Technology, 1992, 22, 56-65.	0.6	8
52	Line profile modeling for non-LTE partially ionized plasmas based on average atom model with <i>l</i> –splitting. Laser and Particle Beams, 1993, 11, 81-87.	1.0	8
53	Spectrum modulation of relativistic electrons by laser wakefield. Applied Physics Letters, 2008, 93, 081501.	3.3	8
54	Radiation reaction in the interaction of ultraintense laser with matter and gamma ray source. Physics of Plasmas, 2016, 23, .	1.9	8

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55	Properties of an exploding foil neon-like germanium soft X-ray laser. Laser and Particle Beams, 1993, 11, 109-117.	1.0	7
56	A jet production experiment using the high-repetition rate Astra laser. Astrophysics and Space Science, 2009, 322, 31-35.	1.4	7
57	Electrostatic Field Generation and Hot Electron Reduction in a Laser Produced Plasma. Journal of the Physical Society of Japan, 1982, 51, 2293-2299.	1.6	6
58	Proton imaging of an electrostatic field structure formed in laser-produced counter-streaming plasmas. Journal of Physics: Conference Series, 2016, 688, 012071.	0.4	6
59	Theory of efficient shell implosions. Laser and Particle Beams, 1989, 7, 189-205.	1.0	5
60	Design of Laser Fusion Reactordriven by Laser-Diode-Pumped Solid State Laser. Fusion Science and Technology, 1992, 21, 1460-1464.	0.6	5
61	Numerical simulation of implosion and burn of <i>D–T</i> ignitor/D ³ He fuel pellet for D ³ He inertial confinement fusion reactor. Laser and Particle Beams, 1993, 11, 137-147.	1.0	5
62	Numerical Simulation of Non-spherical Implosion Related to Fast Ignition. AIP Conference Proceedings, 2003, , .	0.4	5
63	Eagle Nebula Pillars: From Models to Observations. Astrophysics and Space Science, 2005, 298, 177-181.	1.4	5
64	Characteristic measurements of silicon dioxide aerogel plasmas generated in a Planckian radiation environment. Physics of Plasmas, 2010, 17, .	1.9	5
65	Characterization of electrostatic shock in laser-produced optically-thin plasma flows using optical diagnostics. Physics of Plasmas, 2017, 24, 072701.	1.9	5
66	The suppression of radiation reaction and laser field depletion in laser-electron beam interaction. Physics of Plasmas, 2018, 25, .	1.9	5
67	Recent Laboratory Astrophysics Experiments at LULI. Plasma and Fusion Research, 2009, 4, 044-044.	0.7	5
68	Theoretical studies on electron and radiation preheatings. Laser and Particle Beams, 1989, 7, 487-493.	1.0	4
69	Effects of neutron heating on ignition and energy gain of laser-imploded D-T pellets. Laser and Particle Beams, 1997, 15, 259-276.	1.0	4
70	Nonlinear Dynamics of Ionization Fronts in HII Regions. Astrophysics and Space Science, 2007, 307, 183-186.	1.4	4
71	Collisionless Shock Wave Generation in Counter-Streaming Plasmas Using Gekko XII HIPER Laser. Plasma and Fusion Research, 2011, 6, 2404057-2404057.	0.7	4
72	Generation of counter-streaming plasmas for collisionless shock experiment. High Energy Density Physics, 2017, 23, 207-211.	1.5	4

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73	Laser Fusion Research at Ile Osaka University. Fusion Science and Technology, 1996, 30, 625-633.	0.6	3
74	Optical pyrometer system for collisionless shock experiments in high-power laser-produced plasmas. Review of Scientific Instruments, 2012, 83, 10D514.	1.3	3
75	Optimizing the energies conversion in laser-electron beam collision. Physics of Plasmas, 2019, 26, 033102.	1.9	3
76	Relativistic Plasma Physics. Relativistic Motion of Charged Particles in Ultra-Intense Laser Fields Journal of Plasma and Fusion Research, 2002, 78, 341-346.	0.4	3
77	Soft X ray radiation confinement in laser fusion KakuyūgŕKenkyū, 1990, 63, 219-234.	0.1	3
78	Radiation-driven cannonball targets for high-convergence implosions. Laser and Particle Beams, 1993, 11, 89-96.	1.0	2
79	Prospect for Multiple Time and Spatial Scale Simulation Research in Astrophysical Plasma Phenomena: Grand Challenge for Studying the History of Universe from the Dark Ages to the Solar System. Journal of Plasma and Fusion Research, 2003, 79, 504-515.	0.4	2
80	Fast Ignitor Research with Use of Ultra-Intense Laser System Journal of Plasma and Fusion Research, 1999, 75, 452-458.	0.4	2
81	Recent results from experiments on xâ€ray confining cavities (abstract). Review of Scientific Instruments, 1990, 61, 2813-2813.	1.3	1
82	Beatwave excitation of plasma wave and electron acceleration. AIP Conference Proceedings, 1991, , .	0.4	1
83	Non-LTE atomic modeling for laser-produced plasmas. Laser and Particle Beams, 1993, 11, 119-126.	1.0	1
84	High energy particle transport in laser fusion. AIP Conference Proceedings, 1994, , .	0.4	1
85	Kinetic effects on the electron thermal transport in ignition target design. AIP Conference Proceedings, 1996, , .	0.4	1
86	Instabilities of nuclear flames in thermonuclear supernovae. AIP Conference Proceedings, 1996, , .	0.4	1
87	Implosion experiments with uniformity-improved GEKKO XII: Overview. AIP Conference Proceedings, 1996, , .	0.4	1
88	Development of inertial fusion energy. , 1997, , .		1
89	Calculation of Photoionized Plasmas with a Detailed-Configuration-Accounting Atomic Model. Journal of the Physical Society of Japan, 2009, 78, 064301.	1.6	1
90	Can X-Ray Lasers Exist in Astrophysical Objects ?. Publication of the Astronomical Society of Japan, 2011, 63, 727-733.	2.5	1

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91	Ablation and Compression Mechanism in Laser Fusion Plasma The Review of Laser Engineering, 1979, 7, 394-400.	0.0	1
92	Magnetic Field Effects on Resonance Absorption. Journal of the Physical Society of Japan, 1985, 54, 4178-4187.	1.6	0
93	Computational and experimental studies on the implosion processes of laser fusion targets. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1987, 5, 2743-2745.	2.1	0
94	Internal structure of a partially ionized heavy ion. Isolated ion model. Laser and Particle Beams, 1989, 7, 581-588.	1.0	0
95	Indirect-drive inertial fusion research at the Institute of Laser Engineering. AIP Conference Proceedings, 1994, , .	0.4	0
96	High-intensity x-ray pulses from picosecond glass laser produced plasmas. , 0, , .		0
97	Agreement of measured fusion gains with the self-similarity model and volume ignition for NIF conditions. , 1997, , .		0
98	X-ray Line and Recombination Emission in the Afterglow of Grb. Astrophysics and Space Science, 2005, 298, 323-326.	1.4	0
99	Recent studies of high energy density physics at the institute of physics, Beijing. , 2009, , .		0
100	Laboratory Astrophysics Experiment Using High-Power Lasers. The Review of Laser Engineering, 2011, 39, 5-11.	0.0	0
101	Conference on Computational Physics 2012. Asia-Pacific Physics Newsletter, 2013, 02, 12-13.	0.0	0
102	High Power Laser Astrophysics. The Review of Laser Engineering, 2001, 29, 82-83.	0.0	0
103	Potentiality of the Laboratory Astrophysics Using High Repetition Rate and High Intensity Lasers. The Review of Laser Engineering, 2003, 31, 711-720.	0.0	0
104	Laboratory Astrophysics with Lasers: Turbulent Electromagnetic Field Associated with Collisionless Shocks. The Review of Laser Engineering, 2013, 41, 20.	0.0	0
105	Obtaining Correct and Physically Meaningful Results for Simulations of the Richtmyer-Meshkov Instability (RMI) Driven by Shock Wave. , 2014, , .		0
106	Review of Laser Fusion Theory and Simulation. The Review of Laser Engineering, 1986, 14, 1066-1089.	0.0	0
107	Directly Driven Implosion by Laser. KakuyūgŕKenkyū, 1987, 58, 244-254.	0.1	0
108	Laser accelerators (Recent topics on beat wave acceleration) The Review of Laser Engineering, 1987, 15, 481-494.	0.0	0

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109	Design study of an indirect-drive target KakuyūgŕKenkyū, 1990, 64, 408-429.	0.1	0
110	ãf¬ãf¼ã,¶ãf¼æ,èžå⁰ç,¹ç«ç‡fç,,¼ã«åʿãʿā┥. The Review of Laser Engineering, 1995, 23, 117-120.	0.0	0
111	Prospect on the Atomic and Molecular Processes in Plasmas. Transport Code. Radiation Transport Code Journal of Plasma and Fusion Research, 1999, 75, 1145-1155.	0.4	0
112	Relativistic Laser-Electron Interactions. Springer Series in Plasma Science and Technology, 2020, , 167-202.	0.2	0