

Yasuhiro Kuramitsu

List of Publications by Year in descending order

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Version: 2024-02-01

67
papers

1,276
citations

361413

20
h-index

395702

33
g-index

68
all docs

68
docs citations

68
times ranked

951
citing authors

#	ARTICLE	IF	CITATIONS
1	Time Evolution of Collisionless Shock in Counterstreaming Laser-Produced Plasmas. <i>Physical Review Letters</i> , 2011, 106, 175002.	7.8	127
2	Self-organized electromagnetic field structures in laser-produced counter-streaming plasmas. <i>Nature Physics</i> , 2012, 8, 809-812.	16.7	118
3	Characterizing counter-streaming interpenetrating plasmas relevant to astrophysical collisionless shocks. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	101
4	Turbulent amplification of magnetic fields in laboratory laser-produced shock waves. <i>Nature Physics</i> , 2014, 10, 520-524.	16.7	84
5	Developed turbulence and nonlinear amplification of magnetic fields in laboratory and astrophysical plasmas. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 8211-8215.	7.1	52
6	Collisionless shock generation in high-speed counterstreaming plasma flows by a high-power laser. <i>Physics of Plasmas</i> , 2010, 17, .	1.9	50
7	Visualizing electromagnetic fields in laser-produced counter-streaming plasma experiments for collisionless shock laboratory astrophysics. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	36
8	Kelvin-Helmholtz Turbulence Associated with Collisionless Shocks in Laser Produced Plasmas. <i>Physical Review Letters</i> , 2012, 108, 195004.	7.8	34
9	In-Target Proton-Boron Nuclear Fusion Using a PW-Class Laser. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 1444.	2.5	31
10	Magnetohydrodynamics of laser-produced high-energy-density plasma in a strong external magnetic field. <i>Physical Review E</i> , 2017, 95, 053204.	2.1	29
11	Nonthermal Acceleration of Charged Particles due to an Incoherent Wakefield Induced by a Large-Amplitude Light Pulse. <i>Astrophysical Journal</i> , 2008, 682, L113-L116.	4.5	28
12	Recent progress of laboratory astrophysics with intense lasers. <i>High Power Laser Science and Engineering</i> , 2021, 9, .	4.6	27
13	Magnetic reconnection driven by electron dynamics. <i>Nature Communications</i> , 2018, 9, 5109.	12.8	26
14	Thomson scattering measurement of a shock in laser-produced counter-streaming plasmas. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	25
15	Energetic $\mu\pm$ -particle sources produced through proton-boron reactions by high-energy high-intensity laser beams. <i>Physical Review E</i> , 2021, 103, 053202.	2.1	25
16	Supersonic plasma turbulence in the laboratory. <i>Nature Communications</i> , 2019, 10, 1758.	12.8	24
17	Model experiment of cosmic ray acceleration due to an incoherent wakefield induced by an intense laser pulse. <i>Physics of Plasmas</i> , 2011, 18, 010701.	1.9	23
18	Electron acceleration by wave turbulence in a magnetized plasma. <i>Nature Physics</i> , 2018, 14, 475-479.	16.7	22

#	ARTICLE	IF	CITATIONS
19	Generation of $\hat{I}\pm$ -Particle Beams With a Multi-kJ, Peta-Watt Class Laser System. <i>Frontiers in Physics</i> , 2020, 8, .	2.1	22
20	JET FORMATION IN COUNTERSTREAMING COLLISIONLESS PLASMAS. <i>Astrophysical Journal</i> , 2009, 707, L137-L141.	4.5	21
21	Rayleigh-Taylor instability experiments on the LULI2000 laser in scaled conditions for young supernova remnants. <i>Physical Review E</i> , 2019, 100, 021201.	2.1	20
22	The scalability of the accretion column in magnetic cataclysmic variables: the POLAR project. <i>Astrophysics and Space Science</i> , 2011, 336, 81-85.	1.4	19
23	Astrophysical jet experiments. <i>Plasma Physics and Controlled Fusion</i> , 2008, 50, 124039.	2.1	18
24	Experimental evidence of nonthermal acceleration of relativistic electrons by an intensive laser pulse. <i>Physical Review E</i> , 2011, 83, 026401.	2.1	18
25	Laboratory investigations on the origins of cosmic rays. <i>Plasma Physics and Controlled Fusion</i> , 2012, 54, 124049.	2.1	18
26	Laser-driven plasma jets propagating in an ambient gas studied with optical and proton diagnostics. <i>Physics of Plasmas</i> , 2010, 17, 052708.	1.9	16
27	Highly radiative shock experiments driven by GEKKO XII. <i>Astrophysics and Space Science</i> , 2011, 336, 213-218.	1.4	14
28	Relativistic plasma astrophysics with intense lasers. <i>High Energy Density Physics</i> , 2015, 17, 198-202.	1.5	14
29	Spontaneous focusing of plasma flow in a weak perpendicular magnetic field. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	12
30	Experimental results to study astrophysical plasma jets using Intense Lasers. <i>Astrophysics and Space Science</i> , 2009, 322, 25-29.	1.4	11
31	Formation of density inhomogeneity in laser produced plasmas for the test bed of magnetic field amplification in supernova remnants. <i>Astrophysics and Space Science</i> , 2011, 336, 269-272.	1.4	11
32	Discriminative detection of laser-accelerated multi-MeV carbon ions utilizing solid state nuclear track detectors. <i>Scientific Reports</i> , 2021, 11, 16283.	3.3	11
33	Robustness of large-area suspended graphene under interaction with intense laser. <i>Scientific Reports</i> , 2022, 12, 2346.	3.3	11
34	Particle acceleration by elliptically and linearly polarized waves in the vicinity of quasi-parallel shocks. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	10
35	Temperature measurements of electrostatic shocks in laser-produced counter-streaming plasmas. <i>Astrophysics and Space Science</i> , 2011, 336, 283-286.	1.4	10
36	Collisionless electrostatic shock generation using high-energy laser systems. <i>Advances in Physics: X</i> , 2016, 1, 425-443.	4.1	10

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37	Interaction of a highly radiative shock with a solid obstacle. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	9
38	Spectrum modulation of relativistic electrons by laser wakefield. <i>Applied Physics Letters</i> , 2008, 93, 081501.	3.3	8
39	On the universality of nonthermal electron acceleration due to quasi-turbulent wakefields. <i>High Energy Density Physics</i> , 2012, 8, 266-270.	1.5	8
40	Formation and propagation of laser-driven plasma jets in an ambient medium studied with X-ray radiography and optical diagnostics. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	8
41	Large-area suspended graphene as a laser target to produce an energetic ion beam. <i>High Power Laser Science and Engineering</i> , 2017, 5, .	4.6	8
42	Full particle-in-cell simulation of the interaction between two plasmas for laboratory experiments on the generation of magnetized collisionless shocks with high-power lasers. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	8
43	Collective Thomson scattering in non-equilibrium laser produced two-stream plasmas. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	8
44	High-power laser experiment forming a supercritical collisionless shock in a magnetized uniform plasma at rest. <i>Physical Review E</i> , 2022, 105, 025203.	2.1	8
45	A jet production experiment using the high-repetition rate Astra laser. <i>Astrophysics and Space Science</i> , 2009, 322, 31-35.	1.4	7
46	Anomalous plasma acceleration in colliding high-power laser-produced plasmas. <i>Physics of Plasmas</i> , 2019, 26, 090702.	1.9	7
47	Laboratory study of stationary accretion shock relevant to astrophysical systems. <i>Scientific Reports</i> , 2019, 9, 8157.	3.3	7
48	Transition from coherent to incoherent acceleration of nonthermal relativistic electron induced by an intense light pulse. <i>High Energy Density Physics</i> , 2017, 22, 46-50.	1.5	6
49	Toward the Generation of Magnetized Collisionless Shocks with High-Power Lasers. <i>Plasma and Fusion Research</i> , 2016, 11, 3401031-3401031.	0.7	5
50	Characterization of electrostatic shock in laser-produced optically-thin plasma flows using optical diagnostics. <i>Physics of Plasmas</i> , 2017, 24, 072701.	1.9	5
51	Radiation pressure injection in laser-wakefield acceleration. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	5
52	Recent Laboratory Astrophysics Experiments at LULI. <i>Plasma and Fusion Research</i> , 2009, 4, 044-044.	0.7	5
53	Direct observations of pure electron outflow in magnetic reconnection. <i>Scientific Reports</i> , 2022, 12, .	3.3	5
54	Collisionless Shock Wave Generation in Counter-Streaming Plasmas Using Gekko XII HIPER Laser. <i>Plasma and Fusion Research</i> , 2011, 6, 2404057-2404057.	0.7	4

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55	Generation of counter-streaming plasmas for collisionless shock experiment. High Energy Density Physics, 2017, 23, 207-211.	1.5	4
56	Collective scattering of an incident monochromatic circularly polarized wave in an unmagnetized non-equilibrium plasma. Journal of Physics: Conference Series, 2016, 688, 012062.	0.4	3
57	Collective Thomson scattering measurements of electron feature using stimulated Brillouin scattering in laser-produced plasmas. High Energy Density Physics, 2019, 32, 82-88.	1.5	3
58	Nonthermal relativistic electron acceleration due to laser-induced incoherent wakefields with external static magnetic fields. High Energy Density Physics, 2019, 31, 64-69.	1.5	3
59	Local plasma parameter measurements in colliding laser-produced plasmas for studying magnetic reconnection. High Energy Density Physics, 2020, 36, 100754.	1.5	3
60	Efficient hybrid acceleration scheme for generating 100 MeV protons with tabletop dual-laser pulses. Physics of Plasmas, 2021, 28, .	1.9	3
61	A multi-stage scintillation counter for GeV-scale multi-species ion spectroscopy in laser-driven particle acceleration experiments. Review of Scientific Instruments, 2022, 93, .	1.3	3
62	Exploring the mechanical properties of nanometer-thick elastic films through micro-drop impinging on large-area suspended graphene. Nanoscale, 2021, 14, 42-48.	5.6	2
63	Laboratory Study on Disconnection Events in Comets. Scientific Reports, 2018, 8, 463.	3.3	1
64	2-D-Particle-in-Cell Simulation of Laser Wakefield in an Inhomogeneous Plasma. IEEE Transactions on Plasma Science, 2019, 47, 9-11.	1.3	1
65	Laboratory Astrophysics Experiment Using High-Power Lasers. The Review of Laser Engineering, 2011, 39, 5-11.	0.0	0
66	Toward experimental observations of induced Compton scattering by high-power laser facilities. Progress of Theoretical and Experimental Physics, 2020, 2020, .	6.6	0
67	Laboratory Astrophysics with Lasers: Turbulent Electromagnetic Field Associated with Collisionless Shocks. The Review of Laser Engineering, 2013, 41, 20.	0.0	0