

Min Sup Hur

List of Publications by Year in descending order

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papers

902
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516710

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times ranked

607
citing authors

#	ARTICLE	IF	CITATIONS
1	Reaching the Nonlinear Regime of Raman Amplification of Ultrashort Laser Pulses. <i>Physical Review Letters</i> , 2005, 94, 045003.	7.8	137
2	Theoretical Investigation of Controlled Generation of a Dense Attosecond Relativistic Electron Bunch from the Interaction of an Ultrashort Laser Pulse with a Nanofilm. <i>Physical Review Letters</i> , 2007, 99, 124801.	7.8	92
3	Three-dimensional fluid simulation of a plasma display panel cell. <i>Journal of Applied Physics</i> , 2002, 91, 9513.	2.5	52
4	Electron Kinetic Effects on Raman Backscatter in Plasmas. <i>Physical Review Letters</i> , 2005, 95, 115003.	7.8	47
5	An ultra-high gain and efficient amplifier based on Raman amplification in plasma. <i>Scientific Reports</i> , 2017, 7, 2399.	3.3	44
6	Flying mirror model for interaction of a super-intense nonadiabatic laser pulse with a thin plasma layer: Dynamics of electrons in a linearly polarized external field. <i>Physics of Plasmas</i> , 2007, 14, 113101.	1.9	37
7	Enhanced electron trapping by a static longitudinal magnetic field in laser wakefield acceleration. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 2684-2687.	2.1	37
8	Strong terahertz emission from electromagnetic diffusion near cutoff in plasma. <i>New Journal of Physics</i> , 2015, 17, 043045.	2.9	37
9	High-Energy, Short-Duration Bursts of Coherent Terahertz Radiation from an Embedded Plasma Dipole. <i>Scientific Reports</i> , 2018, 8, 145.	3.3	35
10	Chirped pulse Raman amplification in warm plasma: towards controlling saturation. <i>Scientific Reports</i> , 2015, 5, 13333.	3.3	28
11	Simulation of electromagnetically and magnetically induced transparency in a magnetized plasma. <i>Physics of Plasmas</i> , 2003, 10, 3004-3011.	1.9	24
12	A laser-plasma accelerator driven by two-color relativistic femtosecond laser pulses. <i>Science Advances</i> , 2019, 5, eaav7940.	10.3	23
13	Slowly varying envelope kinetic simulations of pulse amplification by Raman backscattering. <i>Physics of Plasmas</i> , 2004, 11, 5204-5211.	1.9	21
14	The effective coefficient of secondary electron emission in plasma display panel. <i>IEEE Transactions on Plasma Science</i> , 2001, 29, 861-863.	1.3	20
15	Energy exchange during stimulated Raman scattering of a relativistic laser in a plasma. <i>Journal of Applied Physics</i> , 2006, 100, 103101.	2.5	20
16	Shock ion acceleration by an ultrashort circularly polarized laser pulse via relativistic transparency in an exploded target. <i>Physical Review E</i> , 2015, 92, 043102.	2.1	19
17	Realistic laser focusing effect on electron acceleration in the presence of a pulsed magnetic field. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	17
18	A universal characterization of nonlinear self-oscillation and chaos in various particle-wave-wall interactions. <i>Applied Physics Letters</i> , 1998, 72, 1445-1447.	3.3	15

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19	Parametrization of nonlinear and chaotic oscillations in driven beam-plasma diodes. <i>Physical Review E</i> , 1998, 58, 936-941.	2.1	13
20	Onset of stimulated Raman scattering of a laser in a plasma in the presence of hot drifting electrons. <i>Physics of Plasmas</i> , 2015, 22, 052101.	1.9	13
21	Striation Mechanism and Triggered Striation in Dielectric Microdischarge Plasma. <i>Japanese Journal of Applied Physics</i> , 2001, 40, L528-L531.	1.5	12
22	Particle-in-cell simulation of a neutral beam source for materials processing. <i>IEEE Transactions on Plasma Science</i> , 2002, 30, 110-111.	1.3	10
23	Pulse width effects on Raman backward laser amplification. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 5155-5160.	2.8	10
24	Large-scale magnetic field generation by asymmetric laser-pulse interactions with a plasma in low-intensity regime. <i>Journal of Applied Physics</i> , 2016, 119, .	2.5	10
25	Plasma Channel Generation for Electron Acceleration with a Laser-Induced Density Gradient. <i>Journal of the Korean Physical Society</i> , 2007, 50, 1466.	0.7	10
26	Plasma density measurements using chirped pulse broad-band Raman amplification. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	9
27	Simulation study of phase-matched THz emission from an axially modulated magnetized plasma. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	8
28	Coherent terahertz radiation generation by a flattened Gaussian laser beam at a plasma-vacuum interface. <i>Applied Physics B: Lasers and Optics</i> , 2022, 128, 1.	2.2	8
29	Flying mirror model for interaction of a super-intense laser pulse with a thin plasma layer: Transparency and shaping of linearly polarized laser pulses. <i>Physics of Plasmas</i> , 2007, 14, 113102.	1.9	7
30	Violation of the transit-time limit toward generation of ultrashort electron bunches with controlled velocity chirp. <i>Scientific Reports</i> , 2016, 6, 32567.	3.3	7
31	Ion-beam-driven instabilities in bounded dusty plasmas. <i>IEEE Transactions on Plasma Science</i> , 1999, 27, 1449-1453.	1.3	6
32	Simulation for generation of 15fs laser pulses by Raman backscatter in plasmas. <i>Applied Physics Letters</i> , 2007, 91, 101501.	3.3	6
33	Two-dimensional simulations of the amplification and focusing of intense laser pulses in the kinetic regime of Raman backward amplification in plasmas. <i>Computer Physics Communications</i> , 2009, 180, 651-655.	7.5	6
34	Measuring the magnetic field of a magnetized plasma using Raman scattering. <i>Applied Physics Letters</i> , 2014, 104, 141107.	3.3	6
35	Particle-in-cell simulation of plasma-based amplification using a moving window. <i>Physical Review Research</i> , 2020, 2, .	3.6	6
36	Test particle method for incorporation of the kinetic effects into the envelope simulations of Raman backscattering. <i>Journal of Computational Physics</i> , 2007, 226, 2133-2145.	3.8	4

#	ARTICLE	IF	CITATIONS
37	Relativistic terahertz pulse generation by non-linear interaction of a high-power fs laser with underdense plasmas. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 395201.	2.8	4
38	Compression and microbunching of electron beams by ultra-intense laser pulses. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006, 353, 505-511.	2.1	3
39	Relativistic channeling of a linearly polarized laser pulse in overdense plasma. <i>Laser and Particle Beams</i> , 2012, 30, 465-471.	1.0	3
40	Raman backscattering saturation due to coupling between π and 2π modes in plasma. <i>New Journal of Physics</i> , 2015, 17, 103026.	2.9	3
41	Enhanced betatron radiation by a modulating laser pulse in laser wakefield acceleration. <i>Current Applied Physics</i> , 2019, 19, 464-469.	2.4	3
42	Reconstruction of plasma density profiles by measuring spectra of radiation emitted from oscillating plasma dipoles. <i>Plasma Sources Science and Technology</i> , 2020, 29, 025018.	3.1	3
43	Particle-in-cell simulations of THz emission from plasma by oblique collision of two-electron beams. <i>Physics of Plasmas</i> , 2022, 29, .	1.9	3
44	Non-axisymmetric simulation of the vertical displacement event in tokamaks. <i>Plasma Physics and Controlled Fusion</i> , 1999, 41, 551-565.	2.1	2
45	Guiding of an electromagnetic pulse in a plasma immersed in combined wiggler and axial magnetic fields. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 3452-3455.	2.1	2
46	Large transverse motion and micro-bunching of trapped electrons in a wakefield accelerator driven by temporally-asymmetric laser pulses. <i>Current Applied Physics</i> , 2013, 13, 645-651.	2.4	2
47	Concave pulse shaping of a circularly polarized laser pulse from non-uniform overdense plasmas. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2015, 379, 700-704.	2.1	2
48	Effects of laser polarizations on shock generation and shock ion acceleration in overdense plasmas. <i>Physical Review E</i> , 2016, 94, 033211.	2.1	2
49	Analyzing the effect of slotted foil on radiation pulse profile in a mode locked afterburner X-ray free electron laser. <i>Journal of Applied Physics</i> , 2017, 121, 243101.	2.5	2
50	Terahertz emission from a plasma dipole oscillation. <i>Journal of the Korean Physical Society</i> , 2022, 80, 852-858.	0.7	2
51	Review of laser-plasma physics research and applications in Korea. <i>Journal of the Korean Physical Society</i> , 2022, 80, 698-716.	0.7	2
52	Effects of particle trapping and velocity slippage on beam-plasma interactions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1998, 247, 313-318.	2.1	1
53	New chaotic patterns in pulsed discharges. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2000, 276, 286-290.	2.1	1
54	New envelope-kinetic scheme for the simulation of Raman backward laser amplification. <i>Computer Physics Communications</i> , 2007, 177, 68-69.	7.5	1

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55	Controlling the spectrum of high-power terahertz radiation from a laser-driven plasma wave. <i>Current Applied Physics</i> , 2012, 12, 1252-1255.	2.4	1
56	Envelope-PIC Hybrid Method for the Simulation of Microwave Reflectometry. <i>IEEE Transactions on Plasma Science</i> , 2018, 46, 577-582.	1.3	1
57	Evolution of magnetic field in a weakly relativistic counterstreaming inhomogeneous e^+e^- plasmas. <i>Laser and Particle Beams</i> , 2020, 38, 181-187.	1.0	1
58	Radiation emitter generated by interacting Langmuir waves. , 2021, , .		1
59	Radiation reaction and the acceleration-dependent mass increase of a charged sphere undergoing uniform acceleration. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2021, 407, 127445.	2.1	1
60	Feasibility study of the plasma electron density measurement by electromagnetic radiation from the laser-driven plasma wave. <i>Journal of Instrumentation</i> , 2012, 7, C04010-C04010.	1.2	0
61	Control of the charge and energy of the proton beams from a laser-driven double-layer target. <i>Current Applied Physics</i> , 2015, 15, 892-896.	2.4	0
62	Unstable longitudinal expansion of plasma foils accelerated by circularly polarized laser pulses in non-transparent regimes. <i>Physics of Plasmas</i> , 2019, 26, 103104.	1.9	0
63	Envelope-Kinetic Method for the Simulation of Raman Backward Laser Amplification in a Plasma. <i>Journal of the Korean Physical Society</i> , 2007, 50, 1463.	0.7	0
64	Attosecond Relativistic Electron Beam by Using an Ultrashort Laser Pulse and a Thin Plasma Layer. <i>Journal of the Korean Physical Society</i> , 2007, 50, 1471.	0.7	0
65	Investigation of the Optimal Condition for High Acceleration Efficiency in the Laser Wake-Field Acceleration. <i>Journal of the Korean Physical Society</i> , 2008, 52, 293-299.	0.7	0
66	Effects of a shallow SAS divertor on detachment in KSTAR. <i>Nuclear Fusion</i> , 2021, 61, 014001.	3.5	0