

Maxence ThÃ©venet

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1060690/publications.pdf>

Version: 2024-02-01

30
papers

510
citations

840776

11
h-index

642732

23
g-index

30
all docs

30
docs citations

30
times ranked

725
citing authors

#	ARTICLE	IF	CITATIONS
1	Vacuum laser acceleration of relativistic electrons using plasma mirror injectors. <i>Nature Physics</i> , 2016, 12, 355-360.	16.7	112
2	Warp-X: A new exascale computing platform for beam-plasma simulations. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2018, 909, 476-479.	1.6	68
3	Identification of Coupling Mechanisms between Ultraintense Laser Light and Dense Plasmas. <i>Physical Review X</i> , 2019, 9, .	8.9	53
4	Anticorrelated Emission of High Harmonics and Fast Electron Beams From Plasma Mirrors. <i>Physical Review Letters</i> , 2016, 116, 185001.	7.8	28
5	Relativistic Acceleration of Electrons Injected by a Plasma Mirror into a Radially Polarized Laser Beam. <i>Physical Review Letters</i> , 2017, 119, 094801.	7.8	26
6	Porting WarpX to GPU-accelerated platforms. <i>Parallel Computing</i> , 2021, 108, 102833.	2.1	25
7	Probing Strong-Field QED with Doppler-Boosted Petawatt-Class Lasers. <i>Physical Review Letters</i> , 2021, 127, 114801.	7.8	24
8	Modeling of a chain of three plasma accelerator stages with the WarpX electromagnetic PIC code on GPUs. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	23
9	On the physics of electron ejection from laser-irradiated overdense plasmas. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	21
10	Acceleration of high charge ion beams with achromatic divergence by petawatt laser pulses. <i>Physical Review Accelerators and Beams</i> , 2020, 23, .	1.6	21
11	Recovery time of a plasma-wakefield accelerator. <i>Nature</i> , 2022, 603, 58-62.	27.8	17
12	Emittance growth due to misalignment in multistage laser-plasma accelerators. <i>Physical Review Accelerators and Beams</i> , 2019, 22, .	1.6	11
13	Laser and electron deflection from transverse asymmetries in laser-plasma accelerators. <i>Physical Review E</i> , 2019, 100, 063208.	2.1	10
14	Generation of XUV spectral continua from relativistic plasma mirrors driven in the near-single-cycle limit. <i>JPhys Photonics</i> , 2020, 2, 034010.	4.6	10
15	Modeling of emittance growth due to Coulomb collisions in plasma-based accelerators. <i>Physics of Plasmas</i> , 2020, 27, 113105.	1.9	9
16	Pulse front tilt steering in laser plasma accelerators. <i>Physical Review Accelerators and Beams</i> , 2019, 22, .	1.6	9
17	Stable electron beam propagation in a plasma column. <i>Physics of Plasmas</i> , 2022, 29, .	1.9	8
18	HiPACE++: A portable, 3D quasi-static particle-in-cell code. <i>Computer Physics Communications</i> , 2022, 278, 108421.	7.5	8

#	ARTICLE	IF	CITATIONS
19	PICSAR-QED: a Monte Carlo module to simulate strong-field quantum electrodynamics in particle-in-cell codes for exascale architectures. <i>New Journal of Physics</i> , 2022, 24, 025009.	2.9	6
20	Design of a prototype laser-plasma injector for an electron synchrotron. <i>Physical Review Accelerators and Beams</i> , 2021, 24, .	1.6	5
21	Toward the modeling of chains of plasma accelerator stages with WarpX. <i>Journal of Physics: Conference Series</i> , 2020, 1596, 012059.	0.4	4
22	Emittance preservation in advanced accelerators. <i>Journal of Instrumentation</i> , 2022, 17, P05016.	1.2	4
23	Toward Plasma Wakefield Simulations at Exascale. , 2018, , .		2
24	In-situ assessment of device-side compute work for dynamic load balancing in a GPU-accelerated PIC code. , 2021, , .		2
25	Overcoming timestep limitations in boosted-frame particle-in-cell simulations of plasma-based acceleration. <i>Physical Review E</i> , 2021, 104, 055311.	2.1	2
26	Reduced model of plasma evolution in hydrogen discharge capillary plasmas. <i>Physical Review E</i> , 2021, 104, 015211.	2.1	1
27	Target normal sheath acceleration with a large laser focal diameter. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	1
28	Experimental demonstration of rogue waves in disordered Luneburg-type photonic networks. , 2013, , .		0
29	Correlated emission of high-harmonics and fast electrons beams from plasma mirrors. , 2016, , .		0
30	Relativistic-Intensity Near-Single-Cycle KHz Laser Driver. , 2018, , .		0