

# Maxence ThÃ©venet

## List of Publications by Year in descending order

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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	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
2	Recovery time of a plasma-wakefield accelerator. <i>Nature</i> , 2022, 603, 58-62.	27.8	17
3	Stable electron beam propagation in a plasma column. <i>Physics of Plasmas</i> , 2022, 29, .	1.9	8
4	Emittance preservation in advanced accelerators. <i>Journal of Instrumentation</i> , 2022, 17, P05016.	1.2	4
5	HiPACE++: A portable, 3D quasi-static particle-in-cell code. <i>Computer Physics Communications</i> , 2022, 278, 108421.	7.5	8
6	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
7	In-situ assessment of device-side compute work for dynamic load balancing in a GPU-accelerated PIC code. , 2021, , .		2
8	Reduced model of plasma evolution in hydrogen discharge capillary plasmas. <i>Physical Review E</i> , 2021, 104, 015211.	2.1	1
9	Probing Strong-Field QED with Doppler-Boosted Petawatt-Class Lasers. <i>Physical Review Letters</i> , 2021, 127, 114801.	7.8	24
10	Porting WarpX to GPU-accelerated platforms. <i>Parallel Computing</i> , 2021, 108, 102833.	2.1	25
11	Design of a prototype laser-plasma injector for an electron synchrotron. <i>Physical Review Accelerators and Beams</i> , 2021, 24, .	1.6	5
12	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
13	Modeling of emittance growth due to Coulomb collisions in plasma-based accelerators. <i>Physics of Plasmas</i> , 2020, 27, 113105.	1.9	9
14	Toward the modeling of chains of plasma accelerator stages with WarpX. <i>Journal of Physics: Conference Series</i> , 2020, 1596, 012059.	0.4	4
15	Target normal sheath acceleration with a large laser focal diameter. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	1
16	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
17	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
18	Identification of Coupling Mechanisms between Ultraintense Laser Light and Dense Plasmas. <i>Physical Review X</i> , 2019, 9, .	8.9	53

#	ARTICLE	IF	CITATIONS
19	Laser and electron deflection from transverse asymmetries in laser-plasma accelerators. Physical Review E, 2019, 100, 063208.	2.1	10
20	Emittance growth due to misalignment in multistage laser-plasma accelerators. Physical Review Accelerators and Beams, 2019, 22, .	1.6	11
21	Pulse front tilt steering in laser plasma accelerators. Physical Review Accelerators and Beams, 2019, 22, .	1.6	9
22	Warp-X: A new exascale computing platform for beam-plasma simulations. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 909, 476-479.	1.6	68
23	Toward Plasma Wakefield Simulations at Exascale. , 2018, , .		2
24	Relativistic-Intensity Near-Single-Cycle KHz Laser Driver. , 2018, , .		0
25	Relativistic Acceleration of Electrons Injected by a Plasma Mirror into a Radially Polarized Laser Beam. Physical Review Letters, 2017, 119, 094801.	7.8	26
26	Anticorrelated Emission of High Harmonics and Fast Electron Beams From Plasma Mirrors. Physical Review Letters, 2016, 116, 185001.	7.8	28
27	On the physics of electron ejection from laser-irradiated overdense plasmas. Physics of Plasmas, 2016, 23, .	1.9	21
28	Vacuum laser acceleration of relativistic electrons using plasma mirror injectors. Nature Physics, 2016, 12, 355-360.	16.7	112
29	Correlated emission of high-harmonics and fast electrons beams from plasma mirrors. , 2016, , .		0
30	Experimental demonstration of rogue waves in disordered Luneburg-type photonic networks. , 2013, , .		0