

# P-E Masson-Laborde

## List of Publications by Year in descending order

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46  
papers

795  
citations

471509

17  
h-index

526287

27  
g-index

47  
all docs

47  
docs citations

47  
times ranked

740  
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical investigation of spallation neutrons generated from petawatt-scale laser-driven proton beams. <i>Matter and Radiation at Extremes</i> , 2022, 7, .	3.9	9
2	Analysis of a kinetic model for electron heat transport in inertial confinement fusion plasmas. <i>Physics of Plasmas</i> , 2022, 29, 062301.	1.9	6
3	Forward scattering and filamentation of a spatially smoothed laser pulse in the hydrodynamic and kinetic frameworks. <i>Physics of Plasmas</i> , 2021, 28, 052701.	1.9	5
4	Enhanced ion acceleration using the high-energy petawatt PETAL laser. <i>Matter and Radiation at Extremes</i> , 2021, 6, .	3.9	18
5	Experimental investigation of the collective stimulated Brillouin and Raman scattering of multiple laser beams in inertial confinement fusion experiments. <i>Plasma Physics and Controlled Fusion</i> , 2020, 62, 014024.	2.1	10
6	Kinetic analytical modeling of Gaussian pulse beam-bending including the transient regime. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	5
7	Fluid modeling of stimulated Raman scattering accounting for trapped particles benchmarked against fully kinetic simulations. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	5
8	Development and validation of the TROLL radiation-hydrodynamics code for 3D hohlraum calculations. <i>Nuclear Fusion</i> , 2019, 59, 032010.	3.5	25
9	A unified modeling of wave mixing processes with the ray tracing method. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	15
10	Interpretation of proton radiography experiments of hohlraums with three-dimensional simulations. <i>Physical Review E</i> , 2019, 99, 053207.	2.1	5
11	Measuring heat flux from collective Thomson scattering with non-Maxwellian distribution functions. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	13
12	Inhibition of crossed-beam energy transfer induced by expansion-velocity fluctuations. <i>Plasma Physics and Controlled Fusion</i> , 2018, 60, 044006.	2.1	3
13	Stimulated Raman backscattering from a laser wakefield accelerator. <i>New Journal of Physics</i> , 2018, 20, 073039.	2.9	4
14	Cross-beam energy transfer: On the accuracy of linear stationary models in the linear kinetic regime. <i>Physics of Plasmas</i> , 2018, 25, 052702.	1.9	11
15	Enhancement and control of laser wakefields via a backward Raman amplifier. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	3
16	Polarization modification of a spatially randomized picosecond-pulse beam during its amplification by a nanosecond pump. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	6
17	Simulation of laser-plasma interaction experiments with gas-filled hohlraums on the LIL facility. <i>Journal of Physics: Conference Series</i> , 2016, 688, 012059.	0.4	2
18	Experimental Investigation of the Collective Raman Scattering of Multiple Laser Beams in Inhomogeneous Plasmas. <i>Physical Review Letters</i> , 2016, 117, 235002.	7.8	38

#	ARTICLE	IF	CITATIONS
19	Modeling crossed-beam energy transfer for inertial confinement fusion. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	24
20	Time history prediction of direct-drive implosions on the Omega facility. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	6
21	Laser plasma interaction on rugby hohlraum on the Omega Laser Facility: Comparisons between cylinder, rugby, and elliptical hohlraums. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	22
22	Spatial and Transient Effects during the Amplification of a Picosecond Pulse Beam by a Nanosecond Pump. <i>Physical Review Letters</i> , 2016, 117, 145001.	7.8	14
23	Experimental Evidence of the Collective Brillouin Scattering of Multiple Laser Beams Sharing Acoustic Waves. <i>Physical Review Letters</i> , 2016, 116, 235002.	7.8	23
24	Probing the deep nonlinear stage of the ablative Rayleigh-Taylor instability in indirect drive experiments on the National Ignition Facility. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	30
25	Reduction of stimulated Brillouin backscattering with plasma beam smoothing. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	11
26	Stimulated Brillouin scattering reduction induced by self-focusing for a single laser speckle interacting with an expanding plasma. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	15
27	Giga-electronvolt electrons due to a transition from laser wakefield acceleration to plasma wakefield acceleration. <i>Physics of Plasmas</i> , 2014, 21, 123113.	1.9	34
28	Demonstrated high performance of gas-filled rugby-shaped hohlraums on Omega. <i>Physics of Plasmas</i> , 2014, 21, 074504.	1.9	11
29	Laser light triggers increased Raman amplification in the regime of nonlinear Landau damping. <i>Nature Communications</i> , 2014, 5, 4158.	12.8	28
30	Laser plasma interaction physics on the LIL facility. <i>EPJ Web of Conferences</i> , 2013, 59, 05003.	0.3	2
31	Experimental investigation of the stimulated Brillouin scattering growth and saturation at 526 and 351 nm for direct drive and shock ignition. <i>Physics of Plasmas</i> , 2012, 19, 012705.	1.9	18
32	Driven Spatially Autoresonant Stimulated Raman Scattering in the Kinetic Regime. <i>Physical Review Letters</i> , 2012, 108, 145003.	7.8	33
33	Progress on LMJ targets for ignition. <i>Journal of Physics: Conference Series</i> , 2010, 244, 022009.	0.4	17
34	Laser-plasma interaction physics in multi kilojoule experiments. <i>Journal of Physics: Conference Series</i> , 2010, 244, 022021.	0.4	4
35	Spatially autoresonant stimulated Raman scattering in inhomogeneous plasmas in the kinetic regime. <i>Physics of Plasmas</i> , 2010, 17, .	1.9	22
36	Evolution of the stimulated Raman scattering instability in two-dimensional particle-in-cell simulations. <i>Physics of Plasmas</i> , 2010, 17, .	1.9	47

#	ARTICLE	IF	CITATIONS
37	Temperature scaling of hot electrons produced by a tightly focused relativistic-intensity laser at 0.5 kHz repetition rate. Applied Physics Letters, 2010, 96, .	3.3	24
38	Progress on LMJ targets for ignition. Plasma Physics and Controlled Fusion, 2009, 51, 124018.	2.1	20
39	Quasimonoenergetic Electron Beams with Relativistic Energies and Ultrashort Duration from Laser-Solid Interactions at 0.5ÅkHz. Physical Review Letters, 2009, 103, 235001.	7.8	67
40	Modeling of stimulated Brillouin scattering in expanding plasmas. Journal of Physics: Conference Series, 2008, 112, 022031.	0.4	12
41	Quasi-monoenergetic electron beams generated from 7 TW laser pulses in N2 and He gas targets. Laser and Particle Beams, 2008, 26, 147-155.	1.0	46
42	Laser-plasma interaction in the context of inertial fusion: experiments and modeling. European Physical Journal D, 2007, 44, 283-288.	1.3	8
43	Harmonic decomposition to describe the nonlinear evolution of stimulated Brillouin scattering. Physics of Plasmas, 2006, 13, 022703.	1.9	50
44	Modeling parametric scattering instabilities in large-scale expanding plasmas. European Physical Journal Special Topics, 2006, 133, 247-251.	0.2	15
45	Studies on laser beam propagation and stimulated scattering in multiple beam experiments. European Physical Journal Special Topics, 2006, 133, 29-33.	0.2	5
46	Kinetic effects in stimulated Brillouin scattering. European Physical Journal Special Topics, 2006, 133, 339-342.	0.2	4