Luca Labate

List of Publications by Year
in descending order

29 papers	643 citations	567281 15 h-index	580821 25 g-index
29 all docs	29 docs citations	29 times ranked	924 citing authors

#	Article	IF	Citations
1	Evidence of Resonant Surface-Wave Excitation in the Relativistic Regime through Measurements of Proton Acceleration from Grating Targets. Physical Review Letters, 2013, 111, 185001.	7.8	100
2	Horizon 2020 EuPRAXIA design study. Journal of Physics: Conference Series, 2017, 874, 012029.	0.4	60
3	SiCILIAâ€"Silicon Carbide Detectors for Intense Luminosity Investigations and Applications. Sensors, 2018, 18, 2289.	3.8	51
4	Investigation on laserâ€"plasma coupling in intense, ultrashort irradiation of a nanostructured silicon target. Plasma Physics and Controlled Fusion, 2014, 56, 095001.	2.1	36
5	The resonant multi-pulse ionization injection. Physics of Plasmas, 2017, 24, .	1.9	36
6	Toward an effective use of laser-driven very high energy electrons for radiotherapy: Feasibility assessment of multi-field and intensity modulation irradiation schemes. Scientific Reports, 2020, 10, 17307.	3.3	36
7	Linear and Nonlinear Thomson Scattering for Advanced X-ray Sources in PLASMONX. IEEE Transactions on Plasma Science, 2008, 36, 1782-1789.	1.3	35
8	Study of forward accelerated fast electrons in ultrashort Ti K Î± sources. Applied Physics B: Lasers and Optics, 2007, 86, 229-233.	2.2	27
9	Radiobiological Effectiveness of Ultrashort Laser-Driven Electron Bunches: Micronucleus Frequency, Telomere Shortening and Cell Viability. Radiation Research, 2016, 186, 245-253.	1.5	21
10	Experimental investigation of fast electron transport through KÎ± imaging and spectroscopy in relativistic laserâ€"solid interactions. Plasma Physics and Controlled Fusion, 2009, 51, 014007.	2.1	20
11	A viable laser driver for a user plasma accelerator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 909, 58-66.	1.6	20
12	Preliminary results from the LMJ-PETAL experiment on hot electrons characterization in the context of shock ignition. High Energy Density Physics, 2020, 36, 100796.	1.5	19
13	A New Line for Laser-Driven Light Ions Acceleration and Related TNSA Studies. Applied Sciences (Switzerland), 2017, 7, 984.	2.5	18
14	New thick silicon carbide detectors: Response to 14 MeV neutrons and comparison with single-crystal diamonds. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 946, 162637.	1.6	18
15	Intense proton acceleration in ultrarelativistic interaction with nanochannels. Physical Review Research, 2020, 2, .	3.6	18
16	Acceleration with self-injection for an all-optical radiation source at LNF. Nuclear Instruments & Methods in Physics Research B, 2013, 309, 202-209.	1.4	15
17	Laser-driven proton acceleration via excitation of surface plasmon polaritons into TiO₂ nanotube array targets. Plasma Physics and Controlled Fusion, 2020, 62, 114001.	2.1	15
18	Nuclear fragment identification with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll" id="d1e1454" altimg="si68.gif"><mml:mi>Î”</mml:mi></mml:math>E-E telescopes exploiting silicon carbide detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 925, 60-69.	1.6	14

#	Article	IF	Citations
19	Enhanced laser-driven proton acceleration via improved fast electron heating in a controlled pre-plasma. Scientific Reports, 2021, 11, 13728.	3.3	14
20	Spatially resolved analysis ofKÎ±x-ray emission from plasmas induced by a femtosecond weakly relativistic laser pulse at various polarizations. Physical Review E, 2013, 87, 023103.	2.1	12
21	A novel technique for single-shot energy-resolved 2D x-ray imaging of plasmas relevant for the inertial confinement fusion. Review of Scientific Instruments, 2012, 83, 103504.	1.3	9
22	LESM: a laser-driven sub-MeV electron source delivering ultra-high dose rate on thin biological samples. Journal Physics D: Applied Physics, 2016, 49, 275401.	2.8	8
23	Light Ion Accelerating Line (L3IA): Test experiment at ILIL-PW. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 909, 160-163.	1.6	8
24	Numerical simulation of novel concept 4D cardiac microtomography for small rodents based on all-optical Thomson scattering X-ray sources. Scientific Reports, 2019, 9, 8439.	3.3	8
25	Bremsstrahlung cannon design for shock ignition relevant regime. Review of Scientific Instruments, 2021, 92, 013501.	1.3	7
26	Optical and spectroscopic study of a supersonic flowing helium plasma: energy transport in the afterglow. Scientific Reports, 2020, 10, 5087.	3.3	6
27	Fabrication of ZnO-nanowire-coated thin-foil targets for ultra-high intensity laser interaction experiments. Matter and Radiation at Extremes, 2021, 6, .	3.9	6
28	Overview and specifications of laser and target areas at the Intense Laser Irradiation Laboratory. High Power Laser Science and Engineering, 2021, 9, .	4.6	3
29	Inverse Compton Scattering X-ray Sources. , 2017, , 309-324.		3