Massimo Ferrario

List of Publications by Year
in descending order

38	1,694	361413 20	315739 38
papers	citations	h-index	g-index

38	38	38	1439
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Energy spread minimization in a beam-driven plasma wakefield accelerator. Nature Physics, 2021, 17, 499-503.	16.7	30
2	Accurate spectra for high energy ions by advanced time-of-flight diamond-detector schemes in experiments with high energy and intensity lasers. Scientific Reports, 2021, 11, 3071.	3.3	14
3	Simultaneous observation of ultrafast electron and proton beams in TNSA. High Power Laser Science and Engineering, 2020, 8, .	4.6	6
4	A Versatile THz Source from High-Brightness Electron Beams: Generation and Characterization. Condensed Matter, 2020, 5, 40.	1.8	7
5	Ultrafast electron and proton bunches correlation in laserâ€“solid matter experiments. Optics Letters, 2020, 45, 5575.	3.3	1
6	Single-shot electrons and protons time-resolved detection from high-intensity laserâ€“solid matter interactions at SPARC_LAB. High Power Laser Science and Engineering, 2019, 7, .	4.6	9
7	Review on TNSA diagnostics and recent developments at SPARC_LAB. High Power Laser Science and Engineering, 2019, 7, .	4.6	4
8	Longitudinal Phase-Space Manipulation with Beam-Driven Plasma Wakefields. Physical Review Letters, 2019, 122, 114801.	7.8	41
9	The Potential of EuPRAXIA@SPARC_LAB for Radiation Based Techniques. Condensed Matter, 2019, 4, 30.	1.8	12
10	Ultrafast evolution of electric fields from high-intensity laser-matter interactions. Scientific Reports, 2018, 8, 3243.	3.3	15
11	Recent studies on single-shot diagnostics for plasma accelerators at SPARC_LAB. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 909, 364-368.	1.6	1
12	The FLAME laser at SPARC_LAB. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 909, 452-455.	1.6	20
13	Evolution of the electric fields induced in high intensity laserâ€“matter interactions. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 909, 398-401.	1.6	2
14	Focusing of High-Brightness Electron Beams with Active-Plasma Lenses. Physical Review Letters, 2018, 121, 174801.	7.8	39
15	Experimental characterization of active plasma lensing for electron beams. Applied Physics Letters, 2017, 110, .	3.3	42
16	Experimental characterization of the effects induced by passive plasma lens on high brightness electron bunches. Applied Physics Letters, 2017, 111, .	3.3	29
17	Design of sub-Angstrom compact free-electron laser source. Optics Communications, 2017, 382, 58-63.	2.1	15
18	Novel Single-Shot Diagnostics for Electrons from Laser-Plasma Interaction at SPARC_LAB. Quantum Beam Science, 2017, 1, 13.	1.2	14

#	Article	IF	Citations
19	Tailoring of Highly Intense THz Radiation Through High Brightness Electron Beams Longitudinal Manipulation. Applied Sciences (Switzerland), 2016, 6, 56.	2.5	17
20	Sub-picosecond snapshots of fast electrons from high intensity laser-matter interactions. Optics Express, 2016, 24, 29512.	3.4	17
21	Femtosecond dynamics of energetic electrons in high intensity laser-matter interactions. Scientific Reports, 2016, 6, 35000.	3.3	32
22	Femtosecond timing-jitter between photo-cathode laser and ultra-short electron bunches by means of hybrid compression. New Journal of Physics, 2016, 18, 083033.	2.9	26
23	Mapping the transverse coherence of the self amplified spontaneous emission of a free-electron laser with the heterodyne speckle method. Optics Express, 2014, 22, 30013.	3.4	18
24	White-light femtosecond Lidar at 100ÂTW power level. Applied Physics B: Lasers and Optics, 2014, 114, 319-325.	2.2	23
25	The External-Injection experiment at the SPARC_LAB facility. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 740, 60-66.	1.6	45
26	SPARC_LAB present and future. Nuclear Instruments & Methods in Physics Research B, 2013, 309, 183-188.	1.4	124
27	The C-Band accelerating structures for SPARC photoinjector energy upgrade. Journal of Instrumentation, 2013, 8, P05004-P05004.	1.2	11
28	Electron Linac design to drive bright Compton back-scattering gamma-ray sources. Journal of Applied Physics, 2013, 113, 194508.	2.5	61
29	Observation of Time-Domain Modulation of Free-Electron-Laser Pulses by Multipeaked Electron-Energy Spectrum. Physical Review Letters, 2013, 111, 114802.	7.8	68
30	High-Order-Harmonic Generation and Superradiance in a Seeded Free-Electron Laser. Physical Review Letters, 2012, 108, 164801.	7.8	38
31	Time-domain measurement of a self-amplified spontaneous emission free-electron laser with an energy-chirped electron beam and undulator tapering. Applied Physics Letters, 2012, 101, 134102.	3.3	20
32	High-Gain Harmonic-Generation Free-Electron Laser Seeded by Harmonics Generated in Gas. Physical Review Letters, 2011, 107, 224801.	7.8	76
33	Self-Amplified Spontaneous Emission Free-Electron Laser with an Energy-Chirped Electron Beam and Undulator Tapering. Physical Review Letters, 2011, 106, 144801.	7.8	66
34	Linear and Nonlinear Thomson Scattering for Advanced X-ray Sources in PLASMONX. IEEE Transactions on Plasma Science, 2008, 36, 1782-1789.	1.3	35
35	Direct Measurement of the Double Emittance Minimum in the Beam Dynamics of the Sparc High-Brightness Photoinjector. Physical Review Letters, 2007, 99, 234801.	7.8	59
36	Design considerations for table-top, laser-based VUV and X-ray free electron lasers. Applied Physics B: Lasers and Optics, 2007, 86, 431-435.	2.2	193

#	Article	IF	Citations
37	THE PHOTON COLLIDER AT TESLA. International Journal of Modern Physics A, 2004, 19, 5097-5186.	1.5	120
38	First Observation of Self-Amplified Spontaneous Emission in a Free-Electron Laser at 109 nm Wavelength. Physical Review Letters, 2000, 85, 3825-3829.	7.8	344