# Massimo Ferrario

List of Publications by Year
in descending order



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|---|---|---|---|
| 38 papers | 1,694 citations | 361413 20 h-index | 315739 38 g-index |
| 38 all docs | 38 docs citations | 38 times ranked | 1439 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | 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 |
| 2 | 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 |
| 3 | SPARC_LAB present and future. Nuclear Instruments & Methods in Physics Research B, 2013, 309, 183-188. | 1.4 | 124 |
| 4 | THE PHOTON COLLIDER AT TESLA. International Journal of Modern Physics A, 2004, 19, 5097-5186. | 1.5 | 120 |
| 5 | High-Gain Harmonic-Generation Free-Electron Laser Seeded by Harmonics Generated in Gas. Physical Review Letters, 2011, 107, 224801. | 7.8 | 76 |
| 6 | Observation of Time-Domain Modulation of Free-Electron-Laser Pulses by Multipeaked Electron-Energy Spectrum. Physical Review Letters, 2013, 111, 114802. | 7.8 | 68 |
| 7 | 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 |
| 8 | Electron Linac design to drive bright Compton back-scattering gamma-ray sources. Journal of Applied Physics, 2013, 113, 194508. | 2.5 | 61 |
| 9 | 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 |
| 10 | 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 |
| 11 | Experimental characterization of active plasma lensing for electron beams. Applied Physics Letters, 2017, 110, . | 3.3 | 42 |
| 12 | Longitudinal Phase-Space Manipulation with Beam-Driven Plasma Wakefields. Physical Review Letters, 2019, 122, 114801. | 7.8 | 41 |
| 13 | Focusing of High-Brightness Electron Beams with Active-Plasma Lenses. Physical Review Letters, 2018, 121, 174801. | 7.8 | 39 |
| 14 | High-Order-Harmonic Generation and Superradiance in a Seeded Free-Electron Laser. Physical Review Letters, 2012, 108, 164801. | 7.8 | 38 |
| 15 | Linear and Nonlinear Thomson Scattering for Advanced X-ray Sources in PLASMONX. IEEE Transactions on Plasma Science, 2008, 36, 1782-1789. | 1.3 | 35 |
| 16 | Femtosecond dynamics of energetic electrons in high intensity laser-matter interactions. Scientific Reports, 2016, 6, 35000. | 3.3 | 32 |
| 17 | Energy spread minimization in a beam-driven plasma wakefield accelerator. Nature Physics, 2021, 17, 499-503. | 16.7 | 30 |
| 18 | Experimental characterization of the effects induced by passive plasma lens on high brightness electron bunches. Applied Physics Letters, 2017, 111, . | 3.3 | 29 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 19 | 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 |
| 20 | White-light femtosecond Lidar at 100ÂTW power level. Applied Physics B: Lasers and Optics, 2014, 114, 319-325. | 2.2 | 23 |
| 21 | 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 |
| 22 | 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 |
| 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 | Tailoring of Highly Intense THz Radiation Through High Brightness Electron Beams Longitudinal Manipulation. Applied Sciences (Switzerland), 2016, 6, 56. | 2.5 | 17 |
| 25 | Sub-picosecond snapshots of fast electrons from high intensity laser-matter interactions. Optics Express, 2016, 24, 29512. | 3.4 | 17 |
| 26 | Design of sub-Angstrom compact free-electron laser source. Optics Communications, 2017, 382, 58-63. | 2.1 | 15 |
| 27 | Ultrafast evolution of electric fields from high-intensity laser-matter interactions. Scientific Reports, 2018, 8, 3243. | 3.3 | 15 |
| 28 | Novel Single-Shot Diagnostics for Electrons from Laser-Plasma Interaction at SPARC_LAB. Quantum Beam Science, 2017, 1, 13. | 1.2 | 14 |
| 29 | 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 |
| 30 | The Potential of EuPRAXIA@SPARC_LAB for Radiation Based Techniques. Condensed Matter, 2019, 4, 30. | 1.8 | 12 |
| 31 | The C-Band accelerating structures for SPARC photoinjector energy upgrade. Journal of Instrumentation, 2013, 8, P05004-P05004. | 1.2 | 11 |
| 32 | 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 |
| 33 | A Versatile THz Source from High-Brightness Electron Beams: Generation and Characterization. Condensed Matter, 2020, 5, 40. | 1.8 | 7 |
| 34 | Simultaneous observation of ultrafast electron and proton beams in TNSA. High Power Laser Science and Engineering, 2020, 8, . | 4.6 | 6 |
| 35 | Review on TNSA diagnostics and recent developments at SPARC_LAB. High Power Laser Science and Engineering, 2019, 7, . | 4.6 | 4 |
| 36 | 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 |

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|---|---|---|---|
| 37 | 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 |
| 38 | Ultrafast electron and proton bunches correlation in laserâ€“solid matter experiments. Optics Letters, 2020, 45, 5575. | 3.3 | 1 |