Luca Giannessi

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/6053551/publications.pdf

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272 papers

6,564 citations

43 h-index 79698 73 g-index

275 all docs

275 docs citations

times ranked

275

3363 citing authors

| # | Article | IF | CITATIONS |
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| 1 | Highly coherent and stable pulses from the FERMI seeded free-electron laser in the extreme ultraviolet. Nature Photonics, 2012, 6, 699-704. | 31.4 | 903 |
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| 4 | Microgel electrophoresis assay (comet test) and SCE analysis in human lymphocytes from 100 normal subjects. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 1994, 307, 323-333. | 1.0 | 161 |
| 5 | Two-colour pump–probe experiments with a twin-pulse-seed extreme ultraviolet free-electron laser. Nature Communications, 2013, 4, 2476. | 12.8 | 156 |
| 6 | Comparative studies by comet test and SCE analysis in human lymphocytes from 200 healthy subjects. Mutation Research - Genetic Toxicology Testing and Biomonitoring of Environmental Or Occupational Exposure, 1995, 343, 201-207. | 1.2 | 127 |
| 7 | SPARC_LAB present and future. Nuclear Instruments & Methods in Physics Research B, 2013, 309, 183-188. | 1.4 | 124 |
| 8 | Attosecond pulse shaping using a seeded free-electron laser. Nature, 2020, 578, 386-391. | 27.8 | 116 |
| 9 | Experimental Demonstration of Emittance Compensation with Velocity Bunching. Physical Review Letters, 2010, 104, 054801. | 7.8 | 111 |
| 10 | The FERMI free-electron lasers. Journal of Synchrotron Radiation, 2015, 22, 485-491. | 2.4 | 101 |
| 11 | Chirped Seeded Free-Electron Lasers: Self-Standing Light Sources for Two-Color Pump-Probe Experiments. Physical Review Letters, 2013, 110, 064801. | 7.8 | 93 |
| 12 | Coherent soft X-ray pulses from an echo-enabled harmonic generation free-electron laser. Nature Photonics, 2019, 13, 555-561. | 31.4 | 92 |
| 13 | Generation of ultra-short, high brightness electron beams for single-spike SASE FEL operation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 593, 39-44. | 1.6 | 88 |
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| 15 | Control of the Polarization of a Vacuum-Ultraviolet, High-Gain, Free-Electron Laser. Physical Review X, 2014, 4, . | 8.9 | 80 |
| 16 | Evaluation of DNA damage in leukocytes of ex-smokers by single cell gel electrophoresis. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 1997, 375, 117-123. | 1.0 | 79 |
| 17 | Widely tunable two-colour seeded free-electron laser source for resonant-pump resonant-probe magnetic scattering. Nature Communications, 2016, 7, 10343. | 12.8 | 77 |
| 18 | High-Gain Harmonic-Generation Free-Electron Laser Seeded by Harmonics Generated in Gas. Physical Review Letters, 2011, 107, 224801. | 7.8 | 76 |

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| 19 | Observation of Time-Domain Modulation of Free-Electron-Laser Pulses by Multipeaked Electron-Energy Spectrum. Physical Review Letters, 2013, 111, 114802. | 7.8 | 68 |
| 20 | Spectrotemporal Shaping of Seeded Free-Electron Laser Pulses. Physical Review Letters, 2015, 115, 114801. | 7.8 | 68 |
| 21 | 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 |
| 22 | Soft X-Ray Second Harmonic Generation as an Interfacial Probe. Physical Review Letters, 2018, 120, 023901. | 7.8 | 64 |
| 23 | Semi-analytical model of self-amplified spontaneous-emission free-electron lasers, including diffraction and pulse-propagation effects. Journal of Applied Physics, 2004, 95, 3206-3210. | 2.5 | 62 |
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| 25 | Self-amplified spontaneous emission for a single pass free-electron laser. Physical Review Special Topics: Accelerators and Beams, 2011, 14, . | 1.8 | 60 |
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| 33 | Tracking attosecond electronic coherences using phase-manipulated extreme ultraviolet pulses. Nature Communications, 2020, 11, 883. | 12.8 | 50 |
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| 38 | Pulse Duration of Seeded Free-Electron Lasers. Physical Review X, 2017, 7, . | 8.9 | 47 |
| 39 | Superradiant Cascade in a Seeded Free-Electron Laser. Physical Review Letters, 2013, 110, 044801. | 7.8 | 46 |
| 40 | EuPRAXIA@SPARC_LAB Design study towards a compact FEL facility at LNF. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 909, 134-138. | 1.6 | 46 |
| 41 | First lasing and initial performance of the European UV/VUV storage ring FEL at ELETTRA. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 475, 20-27. | 1.6 | 45 |
| 42 | Single Shot Polarization Characterization of XUV FEL Pulses from Crossed Polarized Undulators. Scientific Reports, 2015, 5, 13531. | 3.3 | 44 |
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| 44 | Operation of the European storage ring FEL at ELETTRA down to 190nm. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 483, 157-161. | 1.6 | 43 |
| 45 | Experimental Characterization of Superradiance in a Single-Pass High-Gain Laser-Seeded Free-Electron Laser Amplifier. Physical Review Letters, 2007, 98, 034802. | 7.8 | 43 |
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| 49 | High brightness electron beam emittance evolution measurements in an rf photoinjector. Physical Review Special Topics: Accelerators and Beams, 2008, 11 , . | 1.8 | 39 |
| 50 | Experimental Demonstration of Electron Longitudinal-Phase-Space Linearization by Shaping the Photoinjector Laser Pulse. Physical Review Letters, 2014, 112, 044801. | 7.8 | 39 |
| 51 | Photoelectric effect with a twist. Nature Photonics, 2020, 14, 554-558. | 31.4 | 39 |
| 52 | High-Order-Harmonic Generation and Superradiance in a Seeded Free-Electron Laser. Physical Review Letters, 2012, 108, 164801. | 7.8 | 38 |
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| 54 | Free-electron lasing with compact beam-driven plasma wakefield accelerator. Nature, 2022, 605, 659-662. | 27.8 | 36 |

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| 55 | Large-bandwidth two-color free-electron laser driven by a comb-like electron beam. New Journal of Physics, 2014, 16, 033018. | 2.9 | 35 |
| 56 | Two harmonic undulators and harmonic generation in high gain free electron lasers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 495, 48-57. | 1.6 | 33 |
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