

Simone Di Mitri

List of Publications by Year in descending order

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99
papers

3,226
citations

257450

24
h-index

155660

55
g-index

102
all docs

102
docs citations

102
times ranked

2508
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly coherent and stable pulses from the FERMI seeded free-electron laser in the extreme ultraviolet. <i>Nature Photonics</i> , 2012, 6, 699-704.	31.4	903
2	Two-stage seeded soft-X-ray free-electron laser. <i>Nature Photonics</i> , 2013, 7, 913-918.	31.4	424
3	Coherent control with a short-wavelength free-electron laser. <i>Nature Photonics</i> , 2016, 10, 176-179.	31.4	197
4	Two-colour pump-probe experiments with a twin-pulse-seed extreme ultraviolet free-electron laser. <i>Nature Communications</i> , 2013, 4, 2476.	12.8	156
5	The FERMI free-electron lasers. <i>Journal of Synchrotron Radiation</i> , 2015, 22, 485-491.	2.4	101
6	Coherent soft X-ray pulses from an echo-enabled harmonic generation free-electron laser. <i>Nature Photonics</i> , 2019, 13, 555-561.	31.4	92
7	Tunability experiments at the FERMI@Elettra free-electron laser. <i>New Journal of Physics</i> , 2012, 14, 113009.	2.9	81
8	Control of the Polarization of a Vacuum-Ultraviolet, High-Gain, Free-Electron Laser. <i>Physical Review X</i> , 2014, 4, .	8.9	80
9	Soft X-Ray Second Harmonic Generation as an Interfacial Probe. <i>Physical Review Letters</i> , 2018, 120, 023901.	7.8	64
10	Cancellation of Coherent Synchrotron Radiation Kicks with Optics Balance. <i>Physical Review Letters</i> , 2013, 110, 014801.	7.8	54
11	Electron beam brightness in linac drivers for free-electron-lasers. <i>Physics Reports</i> , 2014, 539, 1-48.	25.6	53
12	Laser heater commissioning at an externally seeded free-electron laser. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2014, 17, .	1.8	49
13	Multicolor High-Gain Free-Electron Laser Driven by Seeded Microbunching Instability. <i>Physical Review Letters</i> , 2015, 115, 214801.	7.8	48
14	EuPRAXIA@SPARC_LAB Design study towards a compact FEL facility at LNF. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2018, 909, 134-138.	1.6	46
15	Chirped pulse amplification in an extreme-ultraviolet free-electron laser. <i>Nature Communications</i> , 2016, 7, 13688.	12.8	43
16	Two-colour generation in a chirped seeded free-electron laser: a close look. <i>Optics Express</i> , 2013, 21, 22728.	3.4	42
17	The TeraFERMI terahertz source at the seeded FERMI free-electron-laser facility. <i>Review of Scientific Instruments</i> , 2013, 84, 022702.	1.3	39
18	Experimental Demonstration of Electron Longitudinal-Phase-Space Linearization by Shaping the Photoinjector Laser Pulse. <i>Physical Review Letters</i> , 2014, 112, 044801.	7.8	39

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37	Passive Linearization of the Magnetic Bunch Compression Using Self-Induced Fields. <i>Physical Review Letters</i> , 2017, 119, 184802.	7.8	14
38	Enhanced seeded free electron laser performance with a cold electron beam. <i>Physical Review Accelerators and Beams</i> , 2020, 23, .	1.6	14
39	Merit functions for the linac optics design for colliders and light sources. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014, 735, 60-65.	1.6	13
40	Experimental evidence of intrabeam scattering in a free-electron laser driver. <i>New Journal of Physics</i> , 2020, 22, 083053.	2.9	13
41	TeraFERMI: A Superradiant Beamline for THz Nonlinear Studies at the FERMI Free Electron Laser Facility. <i>Synchrotron Radiation News</i> , 2017, 30, 36-39.	0.8	12
42	A detailed investigation of single-photon laser enabled Auger decay in neon. <i>New Journal of Physics</i> , 2019, 21, 113036.	2.9	12
43	Single-bunch emittance preservation in the presence of trajectory jitter for FERMI@eletra-seeded FEL. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009, 604, 457-465.	1.6	11
44	Polarization Characterization of Soft X-Ray Radiation at FERMI FEL-2. <i>Photonics</i> , 2017, 4, 29.	2.0	11
45	Conditions for coherent-synchrotron-radiation-induced microbunching suppression in multibend beam transport or recirculation arcs. <i>Physical Review Accelerators and Beams</i> , 2017, 20, .	1.6	11
46	Electron slicing for the generation of tunable femtosecond soft x-ray pulses from a free electron laser and slice diagnostics. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2013, 16, .	1.8	10
47	Operating synchrotron light sources with a high gain free electron laser. <i>New Journal of Physics</i> , 2015, 17, 113006.	2.9	10
48	Two-pass two-way acceleration in a superconducting continuous wave linac to drive low jitter x-ray free electron lasers. <i>Physical Review Accelerators and Beams</i> , 2019, 22, .	1.6	10
49	Maximum brightness of linac-driven electron beams in the presence of collective effects. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2013, 16, .	1.8	9
50	Compact FEL-driven inverse Compton scattering gamma-ray source. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2017, 855, 55-60.	1.6	9
51	Two-photon absorption of soft X-ray free electron laser radiation by graphite near the carbon K-absorption edge. <i>Chemical Physics Letters</i> , 2018, 703, 112-116.	2.6	9
52	Electron beam optics and trajectory control in the Fermi free electron laser delivery system. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2012, 15, .	1.8	8
53	Estimate of free electron laser gain length in the presence of electron beam collective effects. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2014, 17, .	1.8	8
54	Characterisation of microbunching instability with 2D Fourier analysis. <i>Scientific Reports</i> , 2020, 10, 5059.	3.3	7

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55	Nonlinear harmonics of a seeded free-electron laser as a coherent and ultrafast probe to investigate matter at the water window and beyond. <i>Physical Review A</i> , 2022, 105, .	2.5	7
56	FERMI@Elettra, a seeded free electron laser source for a broad scientific user program. , 2011, , .		6
57	Intrabeam scattering in high brightness electron linacs. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2014, 17, .	1.8	6
58	Energy slicing analysis for time-resolved measurement of electron-beam properties. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2014, 17, .	1.8	6
59	Microbunching instability study in a linac-driven free electron laser spreader beam line. <i>Physical Review Accelerators and Beams</i> , 2017, 20, .	1.6	6
60	Influence of longitudinally tapered collimators on a high brightness electron beam. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2012, 15, .	1.8	5
61	Design study of high gradient, low impedance accelerating structures for the FERMI free electron laser linac upgrade. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2017, 867, 78-87.	1.6	5
62	Matrix model for collective phenomena in electron beamâ€™s longitudinal phase space. <i>Scientific Reports</i> , 2021, 11, 7895.	3.3	5
63	Compact compressive arc and beam switchyard for energy recovery linac-driven ultraviolet free electron lasers. <i>Physical Review Accelerators and Beams</i> , 2017, 20, .	1.6	5
64	Linear optics control of sideband instability for improved free-electron laser spectral brightness. <i>Physical Review Accelerators and Beams</i> , 2020, 23, .	1.6	5
65	Geometric efficiency of a two-stage fully absorbing collimation system in single-pass linacs. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2010, 13, .	1.8	4
66	Polarization measurement of free electron laser pulses in the VUV generated by the variable polarization source FERMI. , 2014, , .		4
67	The FERMI seeded-FEL facility: Status and perspectives. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	4
68	One way only to synchrotron light sources upgrade?. <i>Journal of Synchrotron Radiation</i> , 2018, 25, 1323-1334.	2.4	4
69	Scaling of Beam Collective Effects with Bunch Charge in the CompactLight Free-Electron Laser. <i>Photonics</i> , 2020, 7, 125.	2.0	4
70	The TeraFERMI Electro-Optic Sampling Set-Up for Fluence-Dependent Spectroscopic Measurements. <i>Condensed Matter</i> , 2020, 5, 8.	1.8	4
71	Bridging the gap of storage ring light sources and linac-driven free-electron lasers. <i>Physical Review Accelerators and Beams</i> , 2021, 24, .	1.6	4
72	Wakefield benchmarking at a single-pass high brightness electron linac. <i>Physical Review Accelerators and Beams</i> , 2019, 22, .	1.6	4

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73	Spectrotemporal control of soft x-ray laser pulses. <i>Physical Review Accelerators and Beams</i> , 2020, 23, .	1.6	4
74	Linac upgrading program for the FERMI project: Status and perspectives. , 2007, , .		3
75	The new elettra booster injector. , 2007, , .		3
76	Status and achievements at FERMI@Elettra: the first double cascade seeded EUV-SXR FEL facility open to users. , 2013, , .		3
77	GeV-Class Two-Fold CW Linac Driven by an Arc-Compressor. <i>Instruments</i> , 2019, 3, 54.	1.8	3
78	Characterization of soft x-ray echo-enabled harmonic generation free-electron laser pulses in the presence of incoherent electron beam energy modulations. <i>Physical Review Accelerators and Beams</i> , 2021, 24, .	1.6	3
79	Laser-slicing at a low-emittance storage ring. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 1523-1538.	2.4	3
80	Photo-injector study for the ELETTRA linac FEL. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2004, 528, 412-415.	1.6	2
81	Noninvasive emittance and energy spread monitor using optical synchrotron radiation. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2014, 17, .	1.8	2
82	Microbunching instability characterization via temporally modulated laser pulses. <i>Physical Review Accelerators and Beams</i> , 2020, 23, .	1.6	2
83	Single-shot transverse coherence in seeded and unseeded free-electron lasers: A comparison. <i>Physical Review Accelerators and Beams</i> , 2022, 25, .	1.6	2
84	Commissioning of two new insertion devices at ELETTRA. , 0, , .		1
85	Publisher's Note: Transverse emittance preservation during bunch compression in the Fermi free electron laser [<i>Phys. Rev. ST Accel. Beams</i> 15, 020701 (2012)]. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2012, 15, .	1.8	1
86	Addendum: Beyond the limits of 1D coherent synchrotron radiation (2018 New J. Phys. 20 073035). <i>New Journal of Physics</i> , 2021, 23, 049401.	2.9	1
87	Slice collective dynamics, projected emittance deterioration and free electron laser performances detrimental effects. <i>Journal of Plasma Physics</i> , 2020, 86, .	2.1	1
88	FERMI@ELETTRA: the single-pass free-electron laser for the VUV and soft x-ray spectral range at ELETTRA. , 0, , .		0
89	Facility Updates: Fermi @ Elettra: A Free Electron Laser for EUV and Soft X-ray Radiation. <i>Synchrotron Radiation News</i> , 2005, 18, 30-35.	0.8	0
90	The TeraFERMI beamline at the FERMI Free-Electron-Laser. , 2013, , .		0

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91	Interatomic Coulombic Decay Processes after Multiple Valence Excitations in Ne Clusters. Journal of Physics: Conference Series, 2015, 635, 112067.	0.4	0
92	Experimental characterization of the FERMI laser heater and its impact on the FEL operations. Proceedings of SPIE, 2015, , .	0.8	0
93	THz coherent transition radiation at TeraFERMI: First characterization of THz radiation and electron beam dynamics. , 2016, , .		0
94	TeraFERMI: Status of the beamline and pilot experiments. , 2017, , .		0
95	Progress of the development of the ELI-NP GBS high level applications. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 909, 327-331.	1.6	0
96	Electron Beam Transport in Plasma-Accelerator-Driven Free-Electron Lasers in the Presence of Coherent Synchrotron Radiation and Microbunching Instability. Physics, 2020, 2, 521-530.	1.4	0
97	Coherent Pulses from a Seeded Free-Electron Laser in the Extreme Ultraviolet. Springer Proceedings in Physics, 2014, , 1-6.	0.2	0
98	Simple and robust free-electron laser doubler. Physical Review Accelerators and Beams, 2019, 22, .	1.6	0
99	Addendum: Experimental evidence of intrabeam scattering in a free-electron laser driver (2020 New J.) Tj ETQq1 1 0,784314 rgBT /Ove	2.9	0