Simone Di Mitri

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Single-shot transverse coherence in seeded and unseeded free-electron lasers: A comparison. Physical Review Accelerators and Beams, 2022, 25, .	1.6	2

2 Addendum: Experimental evidence of intrabeam scattering in a free-electron laser driver (2020 New J.) Tj ETQq0 0 0.25 BT /Overlock 10 T

3	Nonlinear harmonics of a seeded free-electron laser as a coherent and ultrafast probe to investigate matter at the water window and beyond. Physical Review A, 2022, 105, .	2.5	7
4	Addendum: Beyond the limits of 1D coherent synchrotron radiation (2018 New J. Phys. 20 073035). New Journal of Physics, 2021, 23, 049401.	2.9	1
5	Matrix model for collective phenomena in electron beam's longitudinal phase space. Scientific Reports, 2021, 11, 7895.	3.3	5
6	Generation and measurement of intense few-femtosecond superradiant extreme-ultraviolet free-electron laser pulses. Nature Photonics, 2021, 15, 523-529.	31.4	20
7	Bridging the gap of storage ring light sources and linac-driven free-electron lasers. Physical Review Accelerators and Beams, 2021, 24, .	1.6	4
8	Characterization of soft x-ray echo-enabled harmonic generation free-electron laser pulses in the presence of incoherent electron beam energy modulations. Physical Review Accelerators and Beams, 2021, 24, .	1.6	3
9	Scaling of Beam Collective Effects with Bunch Charge in the CompactLight Free-Electron Laser. Photonics, 2020, 7, 125.	2.0	4
10	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
11	Terahertz Tuning of Dirac Plasmons in <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Bi</mml:mi></mml:mrow><mml:mrow><mm Topological Insulator. Physical Review Letters, 2020, 124, 226403.</mm </mml:mrow></mml:msub></mml:mrow></mml:math>	າl:m ກ. 82 <td>יmַצַּמּיַחה> <!--</td--></td>	יm ַצַּמּ יַחה> </td
12	Characterisation of microbunching instability with 2D Fourier analysis. Scientific Reports, 2020, 10, 5059.	3.3	7
13	The TeraFERMI Electro-Optic Sampling Set-Up for Fluence-Dependent Spectroscopic Measurements. Condensed Matter, 2020, 5, 8.	1.8	4
14	Slice collective dynamics, projected emittance deterioration and free electron laser performances detrimental effects. Journal of Plasma Physics, 2020, 86, .	2.1	1
15	Experimental evidence of intrabeam scattering in a free-electron laser driver. New Journal of Physics, 2020, 22, 083053.	2.9	13
16	Spectrotemporal control of soft x-ray laser pulses. Physical Review Accelerators and Beams, 2020, 23, .	1.6	4
17	Microbunching instability characterization via temporally modulated laser pulses. Physical Review Accelerators and Beams, 2020, 23, .	1.6	2
18	Linear optics control of sideband instability for improved free-electron laser spectral brightness. Physical Review Accelerators and Beams, 2020, 23, .	1.6	5

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19	Enhanced seeded free electron laser performance with a "cold―electron beam. Physical Review Accelerators and Beams, 2020, 23, .	1.6	14
20	A detailed investigation of single-photon laser enabled Auger decay in neon. New Journal of Physics, 2019, 21, 113036.	2.9	12
21	Coherent soft X-ray pulses from an echo-enabled harmonic generation free-electron laser. Nature Photonics, 2019, 13, 555-561.	31.4	92
22	MariX, an advanced MHz-class repetition rate X-ray source for linear regime time-resolved spectroscopy and photon scattering. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 930, 167-172.	1.6	29
23	GeV-Class Two-Fold CW Linac Driven by an Arc-Compressor. Instruments, 2019, 3, 54.	1.8	3
24	Wakefield benchmarking at a single-pass high brightness electron linac. Physical Review Accelerators and Beams, 2019, 22, .	1.6	4
25	Two-pass two-way acceleration in a superconducting continuous wave linac to drive low jitter x-ray free electron lasers. Physical Review Accelerators and Beams, 2019, 22, .	1.6	10
26	Laser-slicing at a low-emittance storage ring. Journal of Synchrotron Radiation, 2019, 26, 1523-1538.	2.4	3
27	Simple and robust free-electron laser doubler. Physical Review Accelerators and Beams, 2019, 22, .	1.6	Ο
28	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
29	Soft X-Ray Second Harmonic Generation as an Interfacial Probe. Physical Review Letters, 2018, 120, 023901.	7.8	64
30	Beyond the limits of 1D coherent synchrotron radiation. New Journal of Physics, 2018, 20, 073035.	2.9	20
31	Two-photon absorption of soft X-ray free electron laser radiation by graphite near the carbon K-absorption edge. Chemical Physics Letters, 2018, 703, 112-116.	2.6	9
32	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
33	Coherent THz Emission Enhanced by Coherent Synchrotron Radiation Wakefield. Scientific Reports, 2018, 8, 11661.	3.3	16
34	One way only to synchrotron light sources upgrade?. Journal of Synchrotron Radiation, 2018, 25, 1323-1334.	2.4	4
35	Time-Resolved Measurement of Interatomic Coulombic Decay Induced by Two-Photon Double Excitation of <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Ne</mml:mi></mml:mrow><mml:mrow><m Physical Review Letters, 2017, 118, 033202.</m </mml:mrow></mml:msub></mml:mrow></mml:math>	ıml:mħ\$2 </td <td>mm32 </td>	mm 32
36	Compact FEL-driven inverse compton scattering gamma-ray source. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 855, 55-60.	1.6	9

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37	TeraFERMI: A Superradiant Beamline for THz Nonlinear Studies at the FERMI Free Electron Laser Facility. Synchrotron Radiation News, 2017, 30, 36-39.	0.8	12
38	Passive Linearization of the Magnetic Bunch Compression Using Self-Induced Fields. Physical Review Letters, 2017, 119, 184802.	7.8	14
39	Design study of high gradient, low impedance accelerating structures for the FERMI free electron laser linac upgrade. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 867, 78-87.	1.6	5
40	TeraFERMI: Status of the beamline and pilot experiments. , 2017, , .		0
41	Polarization Characterization of Soft X-Ray Radiation at FERMI FEL-2. Photonics, 2017, 4, 29.	2.0	11
42	Conditions for coherent-synchrotron-radiation-induced microbunching suppression in multibend beam transport or recirculation arcs. Physical Review Accelerators and Beams, 2017, 20, .	1.6	11
43	Compact compressive arc and beam switchyard for energy recovery linac-driven ultraviolet free electron lasers. Physical Review Accelerators and Beams, 2017, 20, .	1.6	5
44	Microbunching instability study in a linac-driven free electron laser spreader beam line. Physical Review Accelerators and Beams, 2017, 20, .	1.6	6
45	The FERMI seeded-FEL facility: Status and perspectives. AIP Conference Proceedings, 2016, , .	0.4	4
46	THz coherent transition radiation at TeraFERMI: First characterization of THz radiation and electron beam dynamics. , 2016, , .		0
47	Chirped pulse amplification in an extreme-ultraviolet free-electron laser. Nature Communications, 2016, 7, 13688.	12.8	43
48	Slow Interatomic Coulombic Decay of Multiply Excited Neon Clusters. Physical Review Letters, 2016, 117, 276806.	7.8	24
49	Four-wave-mixing experiments with seeded free electron lasers. Faraday Discussions, 2016, 194, 283-303.	3.2	20
50	Coherent control with a short-wavelength free-electron laser. Nature Photonics, 2016, 10, 176-179.	31.4	197
51	Feasibility study of a periodic arc compressor in the presence of coherent synchrotron radiation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 806, 184-192.	1.6	15
52	Multicolor High-Gain Free-Electron Laser Driven by Seeded Microbunching Instability. Physical Review Letters, 2015, 115, 214801.	7.8	48
53	Interatomic Coulombic Decay Processes after Multiple Valence Excitations in Ne Clusters. Journal of Physics: Conference Series, 2015, 635, 112067.	0.4	0
54	Operating synchrotron light sources with a high gain free electron laser. New Journal of Physics, 2015, 17, 113006.	2.9	10

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55	On the Importance of Electron Beam Brightness in High Gain Free Electron Lasers. Photonics, 2015, 2, 317-341.	2.0	19
56	Implementation of Radio-Frequency Deflecting Devices for Comprehensive High-Energy Electron Beam Diagnosis. IEEE Transactions on Nuclear Science, 2015, 62, 210-220.	2.0	28
57	The FERMI free-electron lasers. Journal of Synchrotron Radiation, 2015, 22, 485-491.	2.4	101
58	Experimental characterization of the FERMI laser heater and its impact on the FEL operations. Proceedings of SPIE, 2015, , .	0.8	0
59	Transverse emittance-preserving arc compressor for high-brightness electron beam-based light sources and colliders. Europhysics Letters, 2015, 109, 62002.	2.0	21
60	Control of the Polarization of a Vacuum-Ultraviolet, High-Gain, Free-Electron Laser. Physical Review X, 2014, 4, .	8.9	80
61	Laser heater commissioning at an externally seeded free-electron laser. Physical Review Special Topics: Accelerators and Beams, 2014, 17, .	1.8	49
62	Noninvasive emittance and energy spread monitor using optical synchrotron radiation. Physical Review Special Topics: Accelerators and Beams, 2014, 17, .	1.8	2
63	Estimate of free electron laser gain length in the presence of electron beam collective effects. Physical Review Special Topics: Accelerators and Beams, 2014, 17, .	1.8	8
64	Intrabeam scattering in high brightness electron linacs. Physical Review Special Topics: Accelerators and Beams, 2014, 17, .	1.8	6
65	Energy slicing analysis for time-resolved measurement of electron-beam properties. Physical Review Special Topics: Accelerators and Beams, 2014, 17, .	1.8	6
66	Microbunching Instability Suppression via Electron-Magnetic-Phase Mixing. Physical Review Letters, 2014, 112, 134802.	7.8	21
67	Experimental Demonstration of Electron Longitudinal-Phase-Space Linearization by Shaping the Photoinjector Laser Pulse. Physical Review Letters, 2014, 112, 044801.	7.8	39
68	Electron beam brightness in linac drivers for free-electron-lasers. Physics Reports, 2014, 539, 1-48.	25.6	53
69	Merit functions for the linac optics design for colliders and light sources. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 735, 60-65.	1.6	13
70	Polarization measurement of free electron laser pulses in the VUV generated by the variable polarization source FERMI. , 2014, , .		4
71	Coherent Pulses from a Seeded Free-Electron Laser in the Extreme Ultraviolet. Springer Proceedings in Physics, 2014, , 1-6.	0.2	0
72	The TeraFERMI terahertz source at the seeded FERMI free-electron-laser facility. Review of Scientific Instruments, 2013, 84, 022702.	1.3	39

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73	Two-stage seeded soft-X-ray free-electron laser. Nature Photonics, 2013, 7, 913-918.	31.4	424
74	The TeraFERMI beamline at the FERMI Free-Electron-Laser. , 2013, , .		0
75	Electron slicing for the generation of tunable femtosecond soft x-ray pulses from a free electron laser and slice diagnostics. Physical Review Special Topics: Accelerators and Beams, 2013, 16, .	1.8	10
76	Two-colour generation in a chirped seeded free-electron laser: a close look. Optics Express, 2013, 21, 22728.	3.4	42
77	Status and achievements at FERMI@Elettra: the first double cascade seeded EUV-SXR FEL facility open to users. , 2013, , .		3
78	Cancellation of Coherent Synchrotron Radiation Kicks with Optics Balance. Physical Review Letters, 2013, 110, 014801.	7.8	54
79	Modeling and experimental study to identify arrival-time jitter sources in the presence of a magnetic chicane. Physical Review Special Topics: Accelerators and Beams, 2013, 16, .	1.8	18
80	Maximum brightness of linac-driven electron beams in the presence of collective effects. Physical Review Special Topics: Accelerators and Beams, 2013, 16, .	1.8	9
81	Two-colour pump–probe experiments with a twin-pulse-seed extreme ultraviolet free-electron laser. Nature Communications, 2013, 4, 2476.	12.8	156
82	Tunability experiments at the FERMI@Elettra free-electron laser. New Journal of Physics, 2012, 14, 113009.	2.9	81
83	Electron beam optics and trajectory control in the Fermi free electron laser delivery system. Physical Review Special Topics: Accelerators and Beams, 2012, 15, .	1.8	8
84	Influence of longitudinally tapered collimators on a high brightness electron beam. Physical Review Special Topics: Accelerators and Beams, 2012, 15, .	1.8	5
85	Publisher's Note: Transverse emittance preservation during bunch compression in the Fermi free electron laser [Phys. Rev. ST Accel. Beams15, 020701 (2012)]. Physical Review Special Topics: Accelerators and Beams, 2012, 15, .	1.8	1
86	Transverse emittance preservation during bunch compression in the Fermi free electron laser. Physical Review Special Topics: Accelerators and Beams, 2012, 15, .	1.8	18
87	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
88	FERMI@Elettra, a seeded free electron laser source for a broad scientific user program. , 2011, , .		6
89	Suppression of microbunching instability with magnetic bunch length compression in a linac-based free electron laser. Physical Review Special Topics: Accelerators and Beams, 2010, 13, .	1.8	15
90	Geometric efficiency of a two-stage fully absorbing collimation system in single-pass linacs. Physical Review Special Topics: Accelerators and Beams, 2010, 13, .	1.8	4

#	ARTICLE	IF	CITATIONS
91	Single-bunch emittance preservation in the presence of trajectory jitter for FERMI@elettra-seeded FEL. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 604, 457-465.	1.6	11
92	Design and simulation challenges for FERMI@elettra. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 608, 19-27.	1.6	28
93	Linac upgrading program for the FERMI project: Status and perspectives. , 2007, , .		3
94	The new elettra booster injector. , 2007, , .		3
95	Formation of electron bunches for harmonic cascade x-ray free electron lasers. Physical Review Special Topics: Accelerators and Beams, 2006, 9, .	1.8	30
96	Facility Updates: Fermi @ Elettra: A Free Electron Laser for EUV and Soft X-ray Radiation. Synchrotron Radiation News, 2005, 18, 30-35.	0.8	0
97	Photo-injector study for the ELETTRA linac FEL. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 528, 412-415.	1.6	2
98	FERMI@ELETTRA: the single-pass free-electron laser for the VUV and soft x-ray spectral range at ELETTRA. , 0, , .		0
99	Commissioning of two new insertion devices at ELETTRA. , 0, , .		1