

Paolo Craievich

List of Publications by Year in descending order

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49
papers

2,408
citations

471509

17
h-index

315739

38
g-index

50
all docs

50
docs citations

50
times ranked

2146
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	SwissFEL: The Swiss X-ray Free Electron Laser. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 720.	2.5	272
4	A compact and cost-effective hard X-ray free-electron laser driven by a high-brightness and low-energy electron beam. <i>Nature Photonics</i> , 2020, 14, 748-754.	31.4	140
5	Tunability experiments at the FERMI@Elettra free-electron laser. <i>New Journal of Physics</i> , 2012, 14, 113009.	2.9	81
6	The SwissFEL soft X-ray free-electron laser beamline: Athos. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 1073-1084.	2.4	51
7	Laser heater commissioning at an externally seeded free-electron laser. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2014, 17, .	1.8	49
8	Commissioning experience and beam physics measurements at the SwissFEL Injector Test Facility. <i>Physical Review Accelerators and Beams</i> , 2016, 19, .	1.6	41
9	Temporal profile measurements of relativistic electron bunch based on wakefield generation. <i>Physical Review Accelerators and Beams</i> , 2016, 19, .	1.6	39
10	Optimization of a high brightness photoinjector for a seeded FEL facility. <i>Journal of Instrumentation</i> , 2013, 8, P05015-P05015.	1.2	37
11	Design and simulation challenges for FERMI@elettra. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009, 608, 19-27.	1.6	28
12	Passive longitudinal phase space linearizer. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2010, 13, .	1.8	28
13	Implementation of Radio-Frequency Deflecting Devices for Comprehensive High-Energy Electron Beam Diagnosis. <i>IEEE Transactions on Nuclear Science</i> , 2015, 62, 210-220.	2.0	28
14	Single- and two-color attosecond hard x-ray free-electron laser pulses with nonlinear compression. <i>Physical Review Research</i> , 2020, 2, .	3.6	21
15	Generation and Characterization of Intense Ultralow-Emittance Electron Beams for Compact X-Ray Free-Electron Lasers. <i>Physical Review Letters</i> , 2019, 123, 234801.	7.8	19
16	Transverse emittance preservation during bunch compression in the Fermi free electron laser. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2012, 15, .	1.8	18
17	Modeling and experimental study to identify arrival-time jitter sources in the presence of a magnetic chicane. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2013, 16, .	1.8	18
18	Absolute Bunch Length Measurement Using Coherent Diffraction Radiation. <i>Physical Review Letters</i> , 2013, 110, 074802.	7.8	15

#	ARTICLE	IF	CITATIONS
19	Novel $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi} \rangle X \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -band transverse deflection structure with variable polarization. Physical Review Accelerators and Beams, 2020, 23, .	1.6	15
20	Passive Linearization of the Magnetic Bunch Compression Using Self-Induced Fields. Physical Review Letters, 2017, 119, 184802.	7.8	14
21	Impact of an initial energy chirp and an initial energy curvature on a seeded free electron laser: the Green's function. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 045202.	2.1	13
22	Impact of an initial energy chirp and an initial energy curvature on a seeded free electron laser: free electron laser properties. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 085405.	2.1	13
23	The short-range wakefields in the BTW accelerating structure of the ELETTRA LINAC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 558, 58-61.	1.6	12
24	History and Technology Developments of Radio Frequency (RF) Systems for Particle Accelerators. IEEE Transactions on Nuclear Science, 2016, 63, 707-750.	2.0	12
25	Simulation studies for characterizing ultrashort bunches using novel polarizable X-band transverse deflection structures. Scientific Reports, 2019, 9, 19912.	3.3	12
26	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
27	Electromagnetic field and short-range wake function in a beam pipe of elliptical cross section. Physical Review Special Topics: Accelerators and Beams, 2008, 11, .	1.8	10
28	rf traveling-wave electron gun for photoinjectors. Physical Review Accelerators and Beams, 2016, 19, .	1.6	10
29	Effects of the quadrupole wakefields in a passive streaker. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 865, 55-59.	1.6	9
30	Experimental demonstration of novel beam characterization using a polarizable X-band transverse deflection structure. Scientific Reports, 2021, 11, 3560.	3.3	9
31	Longitudinal phase space reconstruction simulation studies using a novel X-band transverse deflecting structure at the SINBAD facility at DESY. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 909, 374-378.	1.6	8
32	Reconstruction of the 3D charge distribution of an electron bunch using a novel variable-polarization transverse deflecting structure (TDS). Journal of Physics: Conference Series, 2017, 874, 012077.	0.4	7
33	Self-synchronized and cost-effective time-resolved measurements at x-ray free-electron lasers with femtosecond resolution. Physical Review Research, 2022, 4, .	3.6	7
34	FERMI@Elettra, a seeded free electron laser source for a broad scientific user program. , 2011, , .		6
35	Theoretical and experimental analysis of a linear accelerator endowed with single feed coupler with movable short-circuit. Review of Scientific Instruments, 2013, 84, 114701.	1.3	6
36	A novel electromagnetic design and a new manufacturing process for the cavity BPM (Beam Position) Tj ETQq0 0 0 rgBT /Overlock 10 Tf Spectrometers, Detectors and Associated Equipment, 2012, 662, 1-11.	1.6	4

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37	Linac upgrading program for the FERMI project: Status and perspectives. , 2007, , .		3
38	The new photoinjector for the FERMI project. , 2007, , .		3
39	The new elettra booster injector. , 2007, , .		3
40	Status and achievements at FERMI@Elettra: the first double cascade seeded EUV-SXR FEL facility open to users. , 2013, , .		3
41	Experimental demonstration of two-color x-ray free-electron-laser pulses via wakefield excitation. Physical Review Accelerators and Beams, 2021, 24, .	1.6	3
42	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
43	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
44	Trapped modes analysis for the elettra booster DCCT installation. , 2007, , .		0
45	Review of the longitudinal impedance budget of the ELETTRA storage ring. , 2007, , .		0
46	Microwave deflectors for high energy beam diagnostic. , 2009, , .		0
47	The Cavity BPM for the microwave measurement of the transversal position of relativistic electron bunches travelling in a vacuum beampipe. , 2011, , .		0
48	Photo-cathode analysis for SwissFEL. , 2014, , .		0
49	2016 Special Issue Dedicated to Particle Accelerators Comments by the Editors. IEEE Transactions on Nuclear Science, 2016, 63, 691-692.	2.0	0