Paolo Craievich

List of Publications by Year
in descending order

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	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
2	Experimental demonstration of novel beam characterization using a polarizable X-band transverse deflection structure. Scientific Reports, 2021, 11, 3560.	3.3	9
3	Experimental demonstration of two-color x-ray free-electron-laser pulses via wakefield excitation. Physical Review Accelerators and Beams, 2021, 24, .	1.6	3
4	A compact and cost-effective hard X-ray free-electron laser driven by a high-brightness and low-energy electron beam. Nature Photonics, 2020, 14, 748-754.	31.4	140
5	Novel <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>X</mml:mi></mml:math> -band transverse deflection structure with variable polarization. Physical Review Accelerators and Beams, 2020, 23, .	1.6	15
6	Single- and two-color attosecond hard x-ray free-electron laser pulses with nonlinear compression. Physical Review Research, 2020, 2, .	3.6	21
7	Simulation studies for characterizing ultrashort bunches using novel polarizable X-band transverse deflection structures. Scientific Reports, 2019, 9, 19912.	3.3	12
8	Generation and Characterization of Intense Ultralow-Emittance Electron Beams for Compact X-Ray Free-Electron Lasers. Physical Review Letters, 2019, 123, 234801.	7.8	19
9	The SwissFEL soft X-ray free-electron laser beamline: Athos. Journal of Synchrotron Radiation, 2019, 26, 1073-1084.	2.4	51
10	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
11	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
12	Passive Linearization of the Magnetic Bunch Compression Using Self-Induced Fields. Physical Review Letters, 2017, 119, 184802.	7.8	14
13	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
14	SwissFEL: The Swiss X-ray Free Electron Laser. Applied Sciences (Switzerland), 2017, 7, 720.	2.5	272
15	2016 Special Issue Dedicated to Particle Accelerators Comments by the Editors. IEEE Transactions on Nuclear Science, 2016, 63, 691-692.	2.0	0
16	History and Technology Developments of Radio Frequency (RF) Systems for Particle Accelerators. IEEE Transactions on Nuclear Science, 2016, 63, 707-750.	2.0	12
17	Temporal profile measurements of relativistic electron bunch based on wakefield generation. Physical Review Accelerators and Beams, 2016, 19, .	1.6	39
18	rf traveling-wave electron gun for photoinjectors. Physical Review Accelerators and Beams, 2016, 19, .	1.6	10

#	Article	IF	Citations
19	Commissioning experience and beam physics measurements at the SwissFEL Injector Test Facility. Physical Review Accelerators and Beams, 2016, 19, .	1.6	41
20	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
21	Laser heater commissioning at an externally seeded free-electron laser. Physical Review Special Topics: Accelerators and Beams, 2014, 17, .	1.8	49
22	Photo-cathode analysis for SwissFEL. , 2014, , .		0
23	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
24	Two-stage seeded soft-X-ray free-electron laser. Nature Photonics, 2013, 7, 913-918.	31.4	424
25	Absolute Bunch Length Measurement Using Coherent Diffraction Radiation. Physical Review Letters, 2013, 110, 074802.	7.8	15
26	Status and achievements at FERMI@Elettra: the first double cascade seeded EUV-SXR FEL facility open to users. , 2013, , .		3
27	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
28	Optimization of a high brightness photoinjector for a seeded FEL facility. Journal of Instrumentation, 2013, 8, P05015-P05015.	1.2	37
29	Tunability experiments at the FERMI@Elettra free-electron laser. New Journal of Physics, 2012, 14, 113009.	2.9	81
30	Publisherâ€™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
31	Transverse emittance preservation during bunch compression in the Fermi free electron laser. Physical Review Special Topics: Accelerators and Beams, 2012, 15, .	1.8	18
32	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
33	A novel electromagnetic design and a new manufacturing process for the cavity BPM (Beam Position) Tj ETQq1 1 0.784314 rgBT /Ove Spectrometers, Detectors and Associated Equipment, 2012, 662, 1-11.	1.6	4
34	The Cavity BPM for the microwave measurement of the transversal position of relativistic electron bunches travelling in a vacuum beampipe. , 2011, , .		0
35	FERMI@Elettra, a seeded free electron laser source for a broad scientific user program. , 2011, , .		6
36	Passive longitudinal phase space linearizer. Physical Review Special Topics: Accelerators and Beams, 2010, 13, .	1.8	28

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37	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
38	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
39	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
40	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
41	Microwave deflectors for high energy beam diagnostic. , 2009, , .		0
42	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
43	Linac upgrading program for the FERMI project: Status and perspectives. , 2007, , .		3
44	The new photoinjector for the FERMI project. , 2007, , .		3
45	The new elettra booster injector. , 2007, , .		3
46	Trapped modes analysis for the elettra booster DCCT installation. , 2007, , .		0
47	Review of the longitudinal impedance budget of the ELETTRA storage ring. , 2007, , .		0
48	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
49	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