

Carlo Pagani

List of Publications by Year in descending order

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62
papers

3,443
citations

759233

12
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302126

39
g-index

62
all docs

62
docs citations

62
times ranked

2926
citing authors

#	ARTICLE	IF	CITATIONS
1	Operation of a free-electron laser from the extreme ultraviolet to the water window. Nature Photonics, 2007, 1, 336-342.	31.4	1,455
2	First Observation of Self-Amplified Spontaneous Emission in a Free-Electron Laser at 109 nm Wavelength. Physical Review Letters, 2000, 85, 3825-3829.	7.8	344
3	A MHz-repetition-rate hard X-ray free-electron laser driven by a superconducting linear accelerator. Nature Photonics, 2020, 14, 391-397.	31.4	315
4	Generation of GW Radiation Pulses from a VUV Free-Electron Laser Operating in the Femtosecond Regime. Physical Review Letters, 2002, 88, 104802.	7.8	313
5	First operation of a free-electron laser generating GW power radiation at 32Ånm wavelength. European Physical Journal D, 2006, 37, 297-303.	1.3	301
6	Superconducting TESLA cavities. Physical Review Special Topics: Accelerators and Beams, 2000, 3, .	1.8	291
7	A new powerful source for coherent VUV radiation: Demonstration of exponential growth and saturation at the TTF free-electron laser. European Physical Journal D, 2002, 20, 149-156.	1.3	103
8	Detailed characterization of electron sources yielding first demonstration of European X-ray Free-Electron Laser beam quality. Physical Review Special Topics: Accelerators and Beams, 2010, 13, .	1.8	77
9	Production of superconducting 1.3-GHz cavities for the European X-ray Free Electron Laser. Physical Review Accelerators and Beams, 2016, 19, .	1.6	29
10	Development, operation and analysis of bialkali antimonide photocathodes for high-brightness photo-injectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1997, 385, 385-390.	1.6	25
11	Characterization of Cs ₂ Te photoemissive film: formation, spectral responses and pollution. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1997, 393, 464-468.	1.6	17
12	Design considerations of -scale extreme ultraviolet SASE FEL for lithography. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 463, 9-25.	1.6	14
13	Neutralization of the emittance blowup induced by rf time dependent forces in rf guns. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1992, 318, 301-307.	1.6	13
14	Alkali photocathode development for superconducting rf guns. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1994, 340, 176-181.	1.6	10
15	High brightness, long pulse, electron beam production with SC photo-injectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1994, 340, 17-25.	1.6	10
16	Conceptual design of a high-brightness linac for soft X-ray SASE-FEL source. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 507, 502-506.	1.6	10
17	Characterization of the electron source at the photo injector test facility at DESY Zeuthen. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 528, 360-365.	1.6	9
18	IRIDE: Interdisciplinary research infrastructure based on dual electron linacs and lasers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 740, 138-146.	1.6	9

#	ARTICLE	IF	CITATIONS
19	The Milan Superconducting Cyclotron Project. IEEE Transactions on Nuclear Science, 1981, 28, 2095-2097.	2.0	7
20	TESLA FEL photo-injector simulations giving high-quality beams. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1997, 393, 430-433.	1.6	7
21	Design considerations and analysis of potential applications of a high power ultraviolet FEL at the TESLA test facility at DESY. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 423, 190-202.	1.6	7
22	First beam measurements at the photo injector test facility at DESY Zeuthen. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 507, 210-214.	1.6	7
23	Prototyping of a multicell superconducting cavity for acceleration of medium-velocity beams. Physical Review Special Topics: Accelerators and Beams, 2005, 8, .	1.8	7
24	Design considerations of a MW-scale, high-efficiency, industrial-use, ultraviolet FEL amplifier. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 455, 733-758.	1.6	6
25	Design considerations of 10kW-scale, extreme ultraviolet SASE FEL for lithography. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 475, 391-396.	1.6	6
26	Model Studies for the Superconducting Cyclotron Project in Milan. IEEE Transactions on Nuclear Science, 1979, 26, 2048-2054.	2.0	4
27	First operations of the LNS heavy ions facility. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 382, 140-146.	1.6	4
28	Test of two Nb superstructure prototypes. Physical Review Special Topics: Accelerators and Beams, 2004, 7, .	1.8	4
29	Superconducting accelerators for nuclear waste transmutation. IEEE Transactions on Applied Superconductivity, 1999, 9, 869-872.	1.7	3
30	High pressure rinsing parameters measurements. Physica C: Superconductivity and Its Applications, 2006, 441, 254-257.	1.2	3
31	A study for the characterization of high QE photocathodes. , 2007, , .		3
32	Study of thermal radiation shields for the ILC cryomodule. , 2012, , .		3
33	Model Study of the RF Cavity for the Milan Superconducting Cyclotron. IEEE Transactions on Nuclear Science, 1979, 26, 2182-2185.	2.0	2
34	RF gun emittance correction using unsymmetrical RF cavities. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1992, 318, 275-281.	1.6	2
35	Mechanical Vibration Measurements on TTF Cryomodules. , 0, , .		2
36	Improved design of the ILC blade-tuner for large scale production. , 2007, , .		2

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37	Overview of ILC. AIP Conference Proceedings, 2007, , .	0.4	2
38	High QE photocathodes performance during operation at FLASH / PITZ photoinjectors. , 2007, , .		2
39	Defect detection inside superconducting 1.3 GHz cavities by means of x-ray fluorescence spectroscopy. Review of Scientific Instruments, 2016, 87, 013103.	1.3	2
40	Cooldown Simulations for TESLA Test Facility (TTF) Cryostats. , 1998, , 315-324.		2
41	The ARES linac as a possible VUV FEL driver. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1991, 304, 251-254.	1.6	1
42	Subharmonic optical klystron: SHOK. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1991, 304, 654-658.	1.6	1
43	A microstrip based position system for the alignment of the TTF cryostat. , 0, , .		1
44	A high current superconducting proton linac for an accelerator driven transmutation system. , 0, , .		1
45	Developments and achievements at the TESLA test facility (TTF). IEEE Transactions on Applied Superconductivity, 1999, 9, 276-281.	1.7	1
46	Recent Developments at PITZ. , 0, , .		1
47	Proposal of an Experiment on Bunch Length Modulation in DAφNe. , 0, , .		1
48	Design of a Multi-Cell, HOM Damped Superconducting Cavity for the Strong RF Focusing Experiment at DAφNE. , 0, , .		1
49	High pressure rinsing system comparison. , 2007, , .		1
50	Influence of the cathode materials on the sorption of noble gases by sputter-ion pumps. Vacuum, 2015, 122, 218-221.	3.5	1
51	Characterisation of sputter-ion pumps to be used in combination with non-evaporable getters. Vacuum, 2016, 123, 23-28.	3.5	1
52	A special refrigerator cooled cryopump for operation into the rf cavities of the Milan Superconducting cyclotron. Vacuum, 1988, 38, 831-834.	3.5	0
53	An FEL based high-intensity gamma source at the TESLA Test Facility at DESY. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 429, 476-480.	1.6	0
54	CARE activities on superconducting RF cavities at INFN Milano. , 2005, 5948, 292.		0

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55	Improvement of the Blade Tuner Design for Superconducting RF Cavities. , 0, , .		0
56	SC RF Studies in Europe. Nuclear Physics, Section B, Proceedings Supplements, 2006, 154, 149-156.	0.4	0
57	Conditioning of a new gun cavity towards 60 MV/m at PITZ. , 2007, , .		0
58	A new wire position monitor readout system for ILC cryomodules. , 2007, , .		0
59	Growth of microscopic cones on titanium cathodes of sputter-ion pumps driven by sorption of large argon quantities. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2015, 33, 05E109.	2.1	0
60	An apparatus for the continuous measurement of thickness during the electropolishing of superconducting cavities. Review of Scientific Instruments, 2021, 92, 023307.	1.3	0
61	Characterization of the electron source at the photo injector test facility at DESY Zeuthen. , 2004, , 360-365.		0
62	Cold RF R&D. , 2007, , .		0