Concetta Ronsivalle

List of Publications by Year
in descending order

47	917	567281 15	454955 30
papers	citations	h-index	g-index

47	47	47	890
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Enhancement of Coherent Emission by Energy-Phase Correlation in a Bunched Electron Beam. Physical Review Letters, 1998, 80, 2841-2844.	7.8	89
2	High-Gain Harmonic-Generation Free-Electron Laser Seeded by Harmonics Generated in Gas. Physical Review Letters, 2011, 107, 224801.	7.8	76
3	Observation of Time-Domain Modulation of Free-Electron-Laser Pulses by Multipeaked Electron-Energy Spectrum. Physical Review Letters, 2013, 111, 114802.	7.8	68
4	Self-Amplified Spontaneous Emission Free-Electron Laser with an Energy-Chirped Electron Beam and Undulator Tapering. Physical Review Letters, 2011, 106, 144801.	7.8	66
5	Semi-analytical model of self-amplified spontaneous-emission free-electron lasers, including diffraction and pulse-propagation effects. Journal of Applied Physics, 2004, 95, 3206-3210.	2.5	62
6	Electron Linac design to drive bright Compton back-scattering gamma-ray sources. Journal of Applied Physics, 2013, 113, 194508.	2.5	61
7	Direct Measurement of the Double Emittance Minimum in the Beam Dynamics of the Sparc High-Brightness Photoinjector. Physical Review Letters, 2007, 99, 234801.	7.8	59
8	The TOP-IMPLART project. European Physical Journal Plus, 2011, 126, 1.	2.6	46
9	Solid state detectors based on point defects in lithium fluoride for advanced proton beam diagnostics. Journal of Luminescence, 2014, 156, 170-174.	3.1	38
10	Calibration of GafChromic EBT3 for absorbed dose measurements in 5 MeV proton beam and ⁶⁰Co Î³â€rays. Medical Physics, 2015, 42, 4678-4684.	3.0	37
11	Photoluminescence of radiation-induced color centers in lithium fluoride thin films for advanced diagnostics of proton beams. Applied Physics Letters, 2015, 106, .	3.3	32
12	Proton beam dose-mapping via color centers in LiF thin-film detectors by fluorescence microscopy. Europhysics Letters, 2017, 117, 37004.	2.0	27
13	Proton beam spatial distribution and Bragg peak imaging by photoluminescence of color centers in lithium fluoride crystals at the TOP-IMPLART linear accelerator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 872, 41-51.	1.6	20
14	Dose response and Bragg curve reconstruction by radiophotoluminescence of color centers in lithium fluoride crystals irradiated with 35ÂMeV proton beams from 0.5 to 50ÂGy. Radiation Measurements, 2020, 133, 106275.	1.4	19
15	First acceleration of a proton beam in a side coupled drift tube linac. Europhysics Letters, 2015, 111, 14002.	2.0	16
16	An analytical approximation of proton Bragg curves in lithium fluoride for beam energy distribution analysis. Nuclear Instruments & Methods in Physics Research B, 2019, 446, 29-36.	1.4	16
17	Analysis of Roman Imperial coins by combined PIXE, HE-PIXE and Î¼-XRF. Applied Radiation and Isotopes, 2019, 143, 35-40.	1.5	16
18	Beam commissioning of the 35ÂMeV section in an intensity modulated proton linear accelerator for proton therapy. Physical Review Accelerators and Beams, 2020, 23, .	1.6	16

#	Article	IF	Citations
19	Modelling of photoluminescence from F2 and F3+ colour centres in lithium fluoride irradiated at high doses by low-energy proton beams. Optical Materials, 2019, 89, 414-418.	3.6	13
20	Wave theories of non-laminar charged particle beams: from quantum to thermal regime. Journal of Plasma Physics, 2014, 80, 133-145.	2.1	11
21	Radiation testing of a commercial 6-axis MEMS inertial navigation unit at ENEA Frascati proton linear accelerator. Advances in Space Research, 2021, 67, 1379-1391.	2.6	11
22	Visible photoluminescence of aggregate colour centres in lithium fluoride thin films for low-energy proton beam radiation detectors at high doses. Journal of Luminescence, 2018, 200, 30-34.	3.1	10
23	Design development of the SCDTL structure for the TOP linac. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 425, 8-22.	1.6	9
24	Visible photoluminescence of color centers in lithium fluoride detectors for low-energy proton beam Bragg curve imaging and dose mapping. Optical Materials, 2019, 95, 109242.	3.6	9
25	Enhanced photoluminescence of F2 and F3+ colour centres in lithium fluoride film-based detectors for proton beams. Optical Materials, 2021, 119, 111376.	3.6	9
26	Numerical studies and measurements on the side-coupled drift tube linac (SCDTL) accelerating structure. Nuclear Instruments & Methods in Physics Research B, 2000, 170, 219-229.	1.4	8
27	The SPARC/X SASE-FEL Projects. Laser and Particle Beams, 2004, 22, 341-350.	1.0	8
28	Optical investigation of radiation-induced color centers in lithium fluoride thin films for low-energy proton-beam detectors. Optical Materials, 2019, 88, 580-585.	3.6	8
29	RF behaviour of 3ÂGHz SCDTL structures. EPJ Applied Physics, 2002, 20, 61-68.	0.7	6
30	Cooling and focusing of a relativistic charged particle beam in crossed laser field. Laser and Particle Beams, 1987, 5, 557-564.	1.0	5
31	Lithium fluoride colour centres-based imaging detectors for proton beam characterization at high doses. Radiation Measurements, 2016, 90, 188-191.	1.4	5
32	THE TOP-IMPLART PROTON LINEAR ACCELERATOR: INTERIM CHARACTERISTICS OF THE 35 MEV BEAM. Radiation Protection Dosimetry, 2019, 186, 113-118.	0.8	5
33	Visible photoluminescence of color centers in LiF crystals for advanced diagnostics of 18 and 27â€¯MeV proton beams. Radiation Measurements, 2019, 124, 59-62.	1.4	5
34	Photoluminescent Bragg curves in lithium fluoride thin films on silicon substrates irradiated with a 35â€‰MeV proton beam. Journal of Applied Physics, 2022, 132, .	2.5	5
35	Beam dynamics in a high brightness linac for short wavelength SASE-FEL experiments. New Journal of Physics, 2006, 8, 295-295.	2.9	4
36	Phase space distribution of an electron beam emerging from Compton/Thomson back-scattering by an intense laser pulse. Europhysics Letters, 2013, 101, 10008.	2.0	3

#	Article	IF	Citations
37	CHARACTERIZATION OF 27 MEV PROTON BEAM GENERATED BY TOP-IMPLART LINEAR ACCELERATOR. Radiation Protection Dosimetry, 2018, 180, 329-333.	0.8	3
38	IRRADIATION ACTIVITY WITH THE TOP-IMPLART PROTON LINEAR ACCELERATOR. RAD Association Journal, 2017, 2, .	0.0	3
39	Concept and performance evaluation of two 3 GHz buncher units optimizing the dose rate of a novel preclinical proton minibeam irradiation facility. PLoS ONE, 2021, 16, e0258477.	2.5	3
40	Perspectives for a High Energy Electron Cooling at Lear an Experimental Test. IEEE Transactions on Nuclear Science, 1985, 32, 2409-2411.	2.0	2
41	Sensitivity study in a compact accelerator for laser-generated protons. Journal of Plasma Physics, 2012, 78, 441-445.	2.1	2
42	Beam characterization methods at the TOP-IMPLART proton linear accelerator: an application to space components qualification. , 2021, , .		2
43	DesignÂand test of a compact beam current monitor based on a passive RF cavity for a proton therapy linear accelerator. Review of Scientific Instruments, 2021, 92, 113304.	1.3	2
44	PRELIMINARY STUDY OF NEUTRON FIELD IN TOP-IMPLART PROTON THERAPY BEAM. Radiation Protection Dosimetry, 2018, 180, 360-364.	0.8	1
45	Recombination effects in the ionization chambers dose delivery monitor of the TOP-IMPLART proton beam. Journal of Physics: Conference Series, 2020, 1561, 012008.	0.4	1
46	RESONANT MODES IN A 1.6 CELLS RF GUN. International Journal of Modern Physics A, 2007, 22, 4204-4213.	1.5	0
47	FIRST SIMULATIONS RESULTS ON LASER PULSE JITTER AND MICROBUNCHING INSTABILITY AT SPARXINO. International Journal of Modern Physics A, 2007, 22, 4254-4264.	1.5	0