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	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
2	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
3	Beam characterization methods at the TOP-IMPLART proton linear accelerator: an application to space components qualification. , 2021, , .		2
4	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
5	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
6	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
7	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
8	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
9	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
10	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
11	THE TOP-IMPLART PROTON LINEAR ACCELERATOR: INTERIM CHARACTERISTICS OF THE 35 MEV BEAM. Radiation Protection Dosimetry, 2019, 186, 113-118.	0.8	5
12	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
13	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
14	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
15	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
16	Analysis of Roman Imperial coins by combined PIXE, HE-PIXE and Î¼-XRF. Applied Radiation and Isotopes, 2019, 143, 35-40.	1.5	16
17	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
18	CHARACTERIZATION OF 27 MEV PROTON BEAM GENERATED BY TOP-IMPLART LINEAR ACCELERATOR. Radiation Protection Dosimetry, 2018, 180, 329-333.	0.8	3

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19	PRELIMINARY STUDY OF NEUTRON FIELD IN TOP-IMPLART PROTON THERAPY BEAM. Radiation Protection Dosimetry, 2018, 180, 360-364.	0.8	1
20	Proton beam dose-mapping via color centers in LiF thin-film detectors by fluorescence microscopy. Europhysics Letters, 2017, 117, 37004.	2.0	27
21	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
22	IRRADIATION ACTIVITY WITH THE TOP-IMPLART PROTON LINEAR ACCELERATOR. RAD Association Journal, 2017, 2, .	0.0	3
23	Lithium fluoride colour centres-based imaging detectors for proton beam characterization at high doses. Radiation Measurements, 2016, 90, 188-191.	1.4	5
24	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
25	First acceleration of a proton beam in a side coupled drift tube linac. Europhysics Letters, 2015, 111, 14002.	2.0	16
26	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
27	Wave theories of non-laminar charged particle beams: from quantum to thermal regime. Journal of Plasma Physics, 2014, 80, 133-145.	2.1	11
28	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
29	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
30	Electron Linac design to drive bright Compton back-scattering gamma-ray sources. Journal of Applied Physics, 2013, 113, 194508.	2.5	61
31	Observation of Time-Domain Modulation of Free-Electron-Laser Pulses by Multipeaked Electron-Energy Spectrum. Physical Review Letters, 2013, 111, 114802.	7.8	68
32	Sensitivity study in a compact accelerator for laser-generated protons. Journal of Plasma Physics, 2012, 78, 441-445.	2.1	2
33	The TOP-IMPLART project. European Physical Journal Plus, 2011, 126, 1.	2.6	46
34	High-Gain Harmonic-Generation Free-Electron Laser Seeded by Harmonics Generated in Gas. Physical Review Letters, 2011, 107, 224801.	7.8	76
35	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
36	RESONANT MODES IN A 1.6 CELLS RF GUN. International Journal of Modern Physics A, 2007, 22, 4204-4213.	1.5	0

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37	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
38	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
39	Beam dynamics in a high brightness linac for short wavelength SASE-FEL experiments. New Journal of Physics, 2006, 8, 295-295.	2.9	4
40	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
41	The SPARC/X SASE-FEL Projects. Laser and Particle Beams, 2004, 22, 341-350.	1.0	8
42	RF behaviour of 3ÂGHz SCDTL structures. EPJ Applied Physics, 2002, 20, 61-68.	0.7	6
43	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
44	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
45	Enhancement of Coherent Emission by Energy-Phase Correlation in a Bunched Electron Beam. Physical Review Letters, 1998, 80, 2841-2844.	7.8	89
46	Cooling and focusing of a relativistic charged particle beam in crossed laser field. Laser and Particle Beams, 1987, 5, 557-564.	1.0	5
47	Perspectives for a High Energy Electron Cooling at Lear an Experimental Test. IEEE Transactions on Nuclear Science, 1985, 32, 2409-2411.	2.0	2