

Mario P Carante

List of Publications by Year in descending order

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papers

297
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840776

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17
g-index

23
all docs

23
docs citations

23
times ranked

273
citing authors

#	ARTICLE	IF	CITATIONS
1	A New Standard DNA Damage (SDD) Data Format. Radiation Research, 2018, 191, 76.	1.5	49
2	Modeling radiation-induced cell death: role of different levels of DNA damage clustering. Radiation and Environmental Biophysics, 2015, 54, 305-316.	1.4	34
3	Chromosome aberrations and cell death by ionizing radiation: Evolution of a biophysical model. Radiation Physics and Chemistry, 2016, 128, 18-25.	2.8	33
4	BIANCA, a biophysical model of cell survival and chromosome damage by protons, C-ions and He-ions at energies and doses used in hadrontherapy. Physics in Medicine and Biology, 2018, 63, 075007.	3.0	31
5	Proximity effects in chromosome aberration induction by low-LET ionizing radiation. DNA Repair, 2017, 58, 38-46.	2.8	22
6	Calculating Variations in Biological Effectiveness for a 62 MeV Proton Beam. Frontiers in Oncology, 2016, 6, 76.	2.8	17
7	Proximity effects in chromosome aberration induction: Dependence on radiation quality, cell type and dose. DNA Repair, 2018, 64, 45-52.	2.8	16
8	New results on proton-induced reactions on vanadium for ^{47}Sc production and the impact of level densities on theoretical cross sections. Physical Review C, 2021, 104, .	2.9	16
9	First benchmarking of the BIANCA model for cell survival prediction in a clinical hadron therapy scenario. Physics in Medicine and Biology, 2019, 64, 215008.	3.0	14
10	In Vivo Validation of the BIANCA Biophysical Model: Benchmarking against Rat Spinal Cord RBE Data. International Journal of Molecular Sciences, 2020, 21, 3973.	4.1	12
11	Modelling cell death for cancer hadrontherapy. AIMS Biophysics, 2017, 4, 465-490.	0.6	11
12	Analysis of Radiation-Induced Chromosomal Aberrations on a Cell-by-Cell Basis after Alpha-Particle Microbeam Irradiation: Experimental Data and Simulations. Radiation Research, 2018, 189, 597-604.	1.5	10
13	Production of High-Purity ^{52}Mn from $^{52}\text{natV}$ Targets with Alpha Beams at Cyclotrons. Nuclear Technology, 2022, 208, 735-752.	1.2	8
14	Biological effectiveness of He-3 and He-4 ion beams for cancer hadrontherapy: a study based on the BIANCA biophysical model. Physics in Medicine and Biology, 2021, 66, 195009.	3.0	8
15	Comparative study of the radiobiological effects induced on adherent vs suspended cells by BNCT, neutrons and gamma rays treatments. Applied Radiation and Isotopes, 2015, 106, 226-232.	1.5	5
16	PREDICTING BIOLOGICAL EFFECTS ALONG HADRONTHERAPY DOSE PROFILES BY THE BIANCA BIOPHYSICAL MODEL. Radiation Protection Dosimetry, 2019, 183, 111-115.	0.8	3
17	Radiation Damage in Biomolecules and Cells. International Journal of Molecular Sciences, 2020, 21, 8188.	4.1	2
18	Improvement of nuclear reaction modeling for the production of ^{47}Sc on natural vanadium targets for medical applications. EPJ Web of Conferences, 2022, 261, 05008.	0.3	2

#	ARTICLE	IF	CITATIONS
19	Radiobiological damage by space radiation: extension of the BIANCA model to heavy ions up to iron, and pilot application to cosmic ray exposure. <i>Journal of Radiological Protection</i> , 2022, 42, 021523.	1.1	2
20	Theoretical study of ⁴⁷ Sc production for theranostic applications using proton beams on enriched titanium targets. <i>EPJ Web of Conferences</i> , 2022, 261, 05005.	0.3	1
21	Effects of ionizing radiation in biomolecules, cells and tissue/organs: basic mechanisms and applications for cancer therapy, medical imaging and radiation protection. <i>AIMS Biophysics</i> , 2022, 9, 108-112.	0.6	1
22	Abstract ID: 37 The BIANCA biophysical model/MC code: calculations of radiation-induced cell damage in view of hadrontherapy treatments. <i>Physica Medica</i> , 2017, 42, 7.	0.7	0
23	A new route to produce ^{52g} Mn with high purity for MultiModal Imaging. <i>EPJ Web of Conferences</i> , 2022, 261, 05003.	0.3	0