

# Mario P Carante

## List of Publications by Year in descending order

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Version: 2024-02-01

23  
papers

297  
citations

840776

11  
h-index

888059

17  
g-index

23  
all docs

23  
docs citations

23  
times ranked

273  
citing authors

#	ARTICLE	IF	CITATIONS
1	Production of High-Purity $^{52}\text{gMn}$ from $^{nat}\text{V}$ Targets with Alpha Beams at Cyclotrons. Nuclear Technology, 2022, 208, 735-752.	1.2	8
2	Theoretical study of $^{47}\text{Sc}$ production for theranostic applications using proton beams on enriched titanium targets. EPJ Web of Conferences, 2022, 261, 05005.	0.3	1
3	A new route to produce $^{52}\text{gMn}$ with high purity for MultiModal Imaging. EPJ Web of Conferences, 2022, 261, 05003.	0.3	0
4	Improvement of nuclear reaction modeling for the production of $^{47}\text{Sc}$ on natural vanadium targets for medical applications. EPJ Web of Conferences, 2022, 261, 05008.	0.3	2
5	Radiobiological damage by space radiation: extension of the BIANCA model to heavy ions up to iron, and pilot application to cosmic ray exposure. Journal of Radiological Protection, 2022, 42, 021523.	1.1	2
6	Effects of ionizing radiation in biomolecules, cells and tissue/organs: basic mechanisms and applications for cancer therapy, medical imaging and radiation protection. AIMS Biophysics, 2022, 9, 108-112.	0.6	1
7	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
8	New results on proton-induced reactions on vanadium for $^{47}\text{Sc}$ production and the impact of level densities on theoretical cross sections. Physical Review C, 2021, 104, .	2.9	16
9	Radiation Damage in Biomolecules and Cells. International Journal of Molecular Sciences, 2020, 21, 8188.	4.1	2
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	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
12	PREDICTING BIOLOGICAL EFFECTS ALONG HADRONTHERAPY DOSE PROFILES BY THE BIANCA BIOPHYSICAL MODEL. Radiation Protection Dosimetry, 2019, 183, 111-115.	0.8	3
13	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
14	Proximity effects in chromosome aberration induction: Dependence on radiation quality, cell type and dose. DNA Repair, 2018, 64, 45-52.	2.8	16
15	A New Standard DNA Damage (SDD) Data Format. Radiation Research, 2018, 191, 76.	1.5	49
16	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
17	Abstract ID: 37 The BIANCA biophysical model/MC code: calculations of radiation-induced cell damage in view of hadrontherapy treatments. Physica Medica, 2017, 42, 7.	0.7	0
18	Proximity effects in chromosome aberration induction by low-LET ionizing radiation. DNA Repair, 2017, 58, 38-46.	2.8	22

#	ARTICLE	IF	CITATIONS
19	Modelling cell death for cancer hadrontherapy. AIMS Biophysics, 2017, 4, 465-490.	0.6	11
20	Calculating Variations in Biological Effectiveness for a 62 MeV Proton Beam. Frontiers in Oncology, 2016, 6, 76.	2.8	17
21	Chromosome aberrations and cell death by ionizing radiation: Evolution of a biophysical model. Radiation Physics and Chemistry, 2016, 128, 18-25.	2.8	33
22	Modeling radiation-induced cell death: role of different levels of DNA damage clustering. Radiation and Environmental Biophysics, 2015, 54, 305-316.	1.4	34
23	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