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List of PR Articles by Year in descending order

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58

PR articles

1,434

PR citations

198607

25

PR h-index

285901

37

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documents

1607

doc citations

211771

26

h-index

1293

citing authors

#	ARTICLE	IF	PR CITATIONS
1	A Mission to Mars: Prediction of GCR Doses and Comparison with Astronaut Dose Limits. International Journal of Molecular Sciences, 2023, 24, 2328.	4.5	22
2	Multimodal evaluation of ¹⁹ F-BPA internalization in pancreatic cancer cells for boron capture and proton therapy potential applications. Physica Medica, 2022, 94, 75-84.	1.5	4
3	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.	1.5	11
4	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.	0.9	3
5	First application of the BIANCA biophysical model to carbon-ion patient cases. Physics in Medicine and Biology, 2022, 67, 115013.	3.1	8
6	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.	3.1	14
7	Healthy Tissue Damage Following Cancer Ion Therapy: A Radiobiological Database Predicting Lymphocyte Chromosome Aberrations Based on the BIANCA Biophysical Model. International Journal of Molecular Sciences, 2021, 22, 10877.	4.5	10
8	In Vivo Validation of the BIANCA Biophysical Model: Benchmarking against Rat Spinal Cord RBE Data. International Journal of Molecular Sciences, 2020, 21, 3973.	4.5	18
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.	3.1	20
10	PREDICTING BIOLOGICAL EFFECTS ALONG HADRONTHERAPY DOSE PROFILES BY THE BIANCA BIOPHYSICAL MODEL. Radiation Protection Dosimetry, 2019, 183, 111-115.	0.7	3
11	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.	3.1	42
12	Proximity effects in chromosome aberration induction: Dependence on radiation quality, cell type and dose. DNA Repair, 2018, 64, 45-52.	2.6	18
13	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.	2.1	11
14	Predicting Late Fecal Incontinence Risk After Radiation Therapy for Prostate Cancer: New Insights From External Independent Validation. International Journal of Radiation Oncology Biology Physics, 2018, 102, 127-136.	1.6	18
15	Proximity effects in chromosome aberration induction by low-LET ionizing radiation. DNA Repair, 2017, 58, 38-46.	2.6	27
16	Modelling cell death for cancer hadrontherapy. AIMS Biophysics, 2017, 4, 465-490.	0.9	14
17	Calculating Variations in Biological Effectiveness for a 62 MeV Proton Beam. Frontiers in Oncology, 2016, 6, .	2.7	20
18	An improved neutron autoradiography set-up for ¹⁰ B concentration measurements in biological samples. Reports of Practical Oncology and Radiotherapy, 2016, 21, 123-128.	1.0	28

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19	Chromosome aberrations and cell death by ionizing radiation: Evolution of a biophysical model. Radiation Physics and Chemistry, 2016, 128, 18-25.	3.0	40
20	The BIANCA model/code of radiation-induced cell death: application to human cells exposed to different radiation types. Radiation and Environmental Biophysics, 2014, 53, 525-533.	2.1	41
21	Gamma Residual Radioactivity Measurements on Rats and Mice Irradiated in the Thermal Column of a Triga Mark II Reactor for BNCT. Health Physics, 2014, 107, 534-541.	0.9	11
22	A Model of Radiation-Induced Cell Killing: Insights into Mechanisms and Applications for Hadron Therapy. Radiation Research, 2013, 180, 307-315.	2.1	13
23	Dose estimation in B16 tumour bearing mice for future irradiation in the thermal column of the TRIGA reactor after B/Gd/LDL adduct infusion. Applied Radiation and Isotopes, 2011, 69, 1842-1845.	1.5	0
24	Design, development and characterization of multi-functionalized gold nanoparticles for biodetection and targeted boron delivery in BNCT applications. Applied Radiation and Isotopes, 2011, 69, 1692-1697.	1.5	42
25	MRI-Guided Neutron Capture Therapy by Use of a Dual Gadolinium/Boron Agent Targeted at Tumour Cells through Upregulated Low-Density Lipoprotein Transporters. Chemistry - A European Journal, 2011, 17, 8479-8486.	3.4	63
26	From radiation-induced chromosome damage to cell death: modelling basic mechanisms and applications to boron neutron capture therapy. Radiation Protection Dosimetry, 2011, 143, 523-527.	0.7	10
27	Cellular communication and non-targeted effects: Modelling approaches. Advances in Space Research, 2009, 44, 917-925.	2.6	13
28	Experimental and theoretical analysis of cytokine release for the study of radiation-induced bystander effect. International Journal of Radiation Biology, 2009, 85, 690-699.	2.2	37
29	First steps towards systems radiation biology studies concerned with DNA and chromosome structure within living cells. Radiation and Environmental Biophysics, 2008, 47, 49-61.	2.1	75
30	Heavy-ion effects: from track structure to DNA and chromosome damage. New Journal of Physics, 2008, 10, 075008.	2.9	33
31	Modeling of DNA fragmentation induced in human fibroblasts by 56Fe ions. Advances in Space Research, 2007, 40, 1401-1407.	2.6	10
32	Radiation risk estimation: Modelling approaches for targeted and non-targeted effects. Advances in Space Research, 2007, 40, 1392-1400.	2.6	15
33	The physics of the FLUKA code: Recent developments. Advances in Space Research, 2007, 40, 1339-1349.	2.6	73
34	A Monte Carlo approach to study neutron and fragment emission in heavy-ion reactions. Advances in Space Research, 2007, 40, 1350-1356.	2.6	2
35	Simulation of light ion induced DNA damage patterns. Radiation Protection Dosimetry, 2006, 122, 116-120.	0.7	49
36	GCR and SPE organ doses in deep space with different shielding: Monte Carlo simulations based on the FLUKA code coupled to anthropomorphic phantoms. Advances in Space Research, 2006, 37, 1791-1797.	2.6	33

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37	Gamma ray-induced bystander effect in tumour glioblastoma cells: a specific study on cell survival, cytokine release and cytokine receptors. Radiation Protection Dosimetry, 2006, 122, 271-274.	0.7	48
38	Modelling radiation-induced bystander effect and cellular communication. Radiation Protection Dosimetry, 2006, 122, 244-251.	0.7	33
39	Human exposure to space radiation: role of primary and secondary particles. Radiation Protection Dosimetry, 2006, 122, 362-366.	0.7	19
40	Role of DNA/chromatin organisation and scavenging capacity in USX- and proton- induced DNA damage. Radiation Protection Dosimetry, 2006, 122, 141-146.	0.7	2
41	The FLUKA code: New developments and application to 1GeV/n iron beams. Advances in Space Research, 2005, 35, 214-222.	2.6	42
42	A Model of Chromosome Aberration Induction: Applications to Space Research. Radiation Research, 2005, 164, 567-570.	2.1	32
43	The application of FLUKA to dosimetry and radiation therapy. Radiation Protection Dosimetry, 2005, 116, 113-117.	0.7	17
44	DNA DSB induced in human cells by charged particles and gamma rays: Experimental results and theoretical approaches. International Journal of Radiation Biology, 2005, 81, 841-854.	2.2	65
45	Heavy ion interactions from Coulomb barrier to few GeV/n: Boltzmann Master Equation theory and FLUKA code performances. Brazilian Journal of Physics, 2004, 34, 897-900.	1.5	6
46	A model of chromosome aberration induction and chronic myeloid leukaemia incidence at low doses. Radiation and Environmental Biophysics, 2004, 43, 165-171.	2.1	31
47	The fluka code for space applications: recent developments. Advances in Space Research, 2004, 34, 1302-1310.	2.6	104
48	Role of shielding in modulating the effects of solar particle events: Monte Carlo calculation of absorbed dose and DNA complex lesions in different organs. Advances in Space Research, 2004, 34, 1338-1346.	2.6	21
49	Chromosome aberrations as biomarkers of radiation exposure: Modelling basic mechanisms. Advances in Space Research, 2003, 31, 1557-1568.	2.6	34
50	Low-dose radiation action: possible implications of bystander effects and adaptive response. Journal of Radiological Protection, 2002, 22, A39-A42.	1.5	14
51	Nuclear Architecture and Radiation Induced Chromosome Aberrations: Models and Simulations. Radiation Protection Dosimetry, 2002, 99, 175-182.	0.7	31
52	Modelling the Influence of Shielding on Physical and Biological Organ Doses. Journal of Radiation Research, 2002, 43, S99-S102.	1.8	5
53	Cellular communication and bystander effects: a critical review for modelling low-dose radiation action. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2002, 501, 1-12.	1.8	94
54	Modelling chromosomal aberration induction by ionising radiation: The influence of interphase chromosome architecture. Advances in Space Research, 2001, 27, 369-382.	2.6	32

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55	Stochastic aspects and uncertainties in the prechemical and chemical stages of electron tracks in liquid water: a quantitative analysis based on Monte Carlo simulations. <i>Radiation and Environmental Biophysics</i> , 2000, 39, 179-188.	2.1	54
56	Chromosome aberrations induced by light ions: Monte Carlo simulations based on a mechanistic model. <i>International Journal of Radiation Biology</i> , 1999, 75, 35-46.	2.2	43
57	Modelling radiation-induced biological lesions: from initial energy depositions to chromosome aberrations. <i>Radiation and Environmental Biophysics</i> , 1999, 38, 1-13.	2.1	33
58	Physical and biophysical characteristics of a fully modulated 72 MeV therapeutic proton beam: model predictions and experimental data. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1999, 159, 89-100.	1.2	47