

# Francis A Cucinotta

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

173  
papers

6,319  
citations

39  
h-index

74  
g-index

183  
ext. papers

7,238  
ext. citations

3.6  
avg, IF

6.23  
L-index

#	Paper	IF	Citations
173	Race and ethnic group dependent space radiation cancer risk predictions.. <i>Scientific Reports</i> , <b>2022</b> , 12, 2028	4.9	2
172	Comparison between PHITS and GEANT4 Simulations of the Heavy Ion Beams at the BEVALAC at LBNL and the Booster Accelerator at BNL. <i>Life Sciences in Space Research</i> , <b>2021</b> , 29, 38-45	2.4	0
171	Carbon Ion Radiotherapy in the Management of Hepatocellular Carcinoma. <i>Journal of Hepatocellular Carcinoma</i> , <b>2021</b> , 8, 1169-1179	5.3	0
170	Study of Total, Absorption, and He and H Production Cross Sections in He-proton Collisions.. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2021</b> , 502, 136-141	1.2	0
169	Future space missions and human enhancement: Medical and ethical challenges. <i>Futures</i> , <b>2021</b> , 133, 102819	3.19	1
168	A proposed change to astronaut exposures limits is a giant leap backwards for radiation protection. <i>Life Sciences in Space Research</i> , <b>2021</b> , 31, 59-70	2.4	3
167	Comparison of signaling profiles in the low dose range following low and high LET radiation. <i>Life Sciences in Space Research</i> , <b>2020</b> , 25, 28-41	2.4	3
166	Response Letter: Radiation therapy for COVID-19 pneumopathy. <i>Radiotherapy and Oncology</i> , <b>2020</b> , 149, 238-239	5.3	2
165	Mathematical Model of ATM Activation and Chromatin Relaxation by Ionizing Radiation. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	2
164	Low-Dose Radiation Therapy (LDRT) for COVID-19: Benefits or Risks?. <i>Radiation Research</i> , <b>2020</b> , 194, 452-464	3.1	24
163	Predictions of cognitive detriments from galactic cosmic ray exposures to astronauts on exploration missions. <i>Life Sciences in Space Research</i> , <b>2020</b> , 25, 129-135	2.4	8
162	Cancer Risk of Low Dose Ionizing Radiation. <i>Frontiers in Physics</i> , <b>2020</b> , 8,	3.9	12
161	Benchmarking risk predictions and uncertainties in the NSCR model of GCR cancer risks with revised low let risk coefficients. <i>Life Sciences in Space Research</i> , <b>2020</b> , 27, 64-73	2.4	4
160	Cancer and circulatory disease risks for a human mission to Mars: Private mission considerations. <i>Acta Astronautica</i> , <b>2020</b> , 166, 529-536	2.9	9
159	Risks of cognitive detriments after low dose heavy ion and proton exposures. <i>International Journal of Radiation Biology</i> , <b>2019</b> , 95, 985-998	2.9	31
158	SEVENTEENTH INTERNATIONAL SYMPOSIUM ON MICRODOSIMETRY. <i>Radiation Protection Dosimetry</i> , <b>2019</b> , 183, 1-2	0.9	
157	Nitric Oxide Is Involved in Heavy Ion-Induced Non-Targeted Effects in Human Fibroblasts. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	1

156	Meta-analysis of Cognitive Performance by Novel Object Recognition after Proton and Heavy Ion Exposures. <i>Radiation Research</i> , <b>2019</b> , 192, 463-472	3.1	9
155	DETRIMENTS IN NEURON MORPHOLOGY FOLLOWING HEAVY ION IRRADIATION: WHAT'S THE TARGET?. <i>Radiation Protection Dosimetry</i> , <b>2019</b> , 183, 69-74	0.9	2
154	NON-TARGETED EFFECTS LEAD TO A PARIDIGM SHIFT IN RISK ASSESSMENT FOR A MISSION TO THE EARTH'S MOON OR MARTIAN MOON PHOBOS. <i>Radiation Protection Dosimetry</i> , <b>2019</b> , 183, 213-218	0.9	8
153	Pion-heavy ion scattering total and inelastic cross sections for space radiation applications. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2019</b> , 438, 14-19	1.2	2
152	Stochastic Modeling of Radiation-induced Dendritic Damage on in silico Mouse Hippocampal Neurons. <i>Scientific Reports</i> , <b>2018</b> , 8, 5494	4.9	11
151	Dynamical modeling approach to risk assessment for radiogenic leukemia among astronauts engaged in interplanetary space missions. <i>Life Sciences in Space Research</i> , <b>2018</b> , 16, 76-83	2.4	2
150	Biophysics Model of Heavy-Ion Degradation of Neuron Morphology in Mouse Hippocampal Granular Cell Layer Neurons. <i>Radiation Research</i> , <b>2018</b> , 189, 312-325	3.1	14
149	2nd-order optical model of the isotopic dependence of heavy ion absorption cross sections for radiation transport studies. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2018</b> , 414, 11-17	1.2	1
148	Dependence of the human leukemia risk on the dose and dose rate of continuous irradiation: Modeling study. <i>Life Sciences in Space Research</i> , <b>2018</b> , 19, 17-23	2.4	1
147	Modeling Reveals the Dependence of Hippocampal Neurogenesis Radiosensitivity on Age and Strain of Rats. <i>Frontiers in Neuroscience</i> , <b>2018</b> , 12, 980	5.1	4
146	Predictions of space radiation fatality risk for exploration missions. <i>Life Sciences in Space Research</i> , <b>2017</b> , 13, 1-11	2.4	57
145	Non-Targeted Effects Models Predict Significantly Higher Mars Mission Cancer Risk than Targeted Effects Models. <i>Scientific Reports</i> , <b>2017</b> , 7, 1832	4.9	42
144	Track structure model of microscopic energy deposition by protons and heavy ions in segments of neuronal cell dendrites represented by cylinders or spheres. <i>Life Sciences in Space Research</i> , <b>2017</b> , 13, 27-38	2.4	7
143	No evidence for an increase in circulatory disease mortality in astronauts following space radiation exposures. <i>Life Sciences in Space Research</i> , <b>2016</b> , 10, 53-6	2.4	33
142	Skin Response to Single and Fractionated Irradiation: Dynamic Modeling Approach. <i>Health Physics</i> , <b>2016</b> , 111, 513-527	2.3	1
141	Relative Biological Effectiveness of HZE Particles for Chromosomal Exchanges and Other Surrogate Cancer Risk Endpoints. <i>PLoS ONE</i> , <b>2016</b> , 11, e0153998	3.7	22
140	Space Radiation Quality Factors and the Delta Ray Dose and Dose-Rate Reduction Effectiveness Factor. <i>Health Physics</i> , <b>2016</b> , 110, 262-6	2.3	9
139	Harderian Gland Tumorigenesis: Low-Dose and LET Response. <i>Radiation Research</i> , <b>2016</b> , 185, 449-60	3.1	29

138	Modeling Heavy-Ion Impairment of Hippocampal Neurogenesis after Acute and Fractionated Irradiation. <i>Radiation Research</i> , <b>2016</b> , 186, 624-637	3.1	15
137	Modeling Impaired Hippocampal Neurogenesis after Radiation Exposure. <i>Radiation Research</i> , <b>2016</b> , 185, 319-31	3.1	15
136	Safe days in space with acceptable uncertainty from space radiation exposure. <i>Life Sciences in Space Research</i> , <b>2015</b> , 5, 31-8	2.4	35
135	What happens to your brain on the way to Mars. <i>Science Advances</i> , <b>2015</b> , 1,	14.3	138
134	Biophysics of NASA radiation quality factors. <i>Radiation Protection Dosimetry</i> , <b>2015</b> , 166, 282-9	0.9	5
133	Review of NASA approach to space radiation risk assessments for Mars exploration. <i>Health Physics</i> , <b>2015</b> , 108, 131-42	2.3	63
132	HEMODOSE: A Biodosimetry Tool Based on Multi-type Blood Cell Counts. <i>Health Physics</i> , <b>2015</b> , 109, 54-68	3	25
131	Issues for Simulation of Galactic Cosmic Ray Exposures for Radiobiological Research at Ground-Based Accelerators. <i>Frontiers in Oncology</i> , <b>2015</b> , 5, 122	5.3	36
130	Biological Effectiveness of Accelerated Protons for Chromosome Exchanges. <i>Frontiers in Oncology</i> , <b>2015</b> , 5, 226	5.3	13
129	Defining the Biological Effectiveness of Components of High-LET Track Structure. <i>Radiation Research</i> , <b>2015</b> , 184, 105-19	3.1	25
128	Irradiation of Neurons with High-Energy Charged Particles: An In Silico Modeling Approach. <i>PLoS Computational Biology</i> , <b>2015</b> , 11, e1004428	5	26
127	A new approach to reduce uncertainties in space radiation cancer risk predictions. <i>PLoS ONE</i> , <b>2015</b> , 10, e0120717	3.7	45
126	Calculations of distance distributions and probabilities of binding by ligands between parallel plane membranes comprising receptors. <i>Computer Physics Communications</i> , <b>2014</b> , 185, 697-707	4.2	1
125	Mars' surface radiation environment measured with the Mars Science Laboratory's Curiosity rover. <i>Science</i> , <b>2014</b> , 343, 1244797	33.3	343
124	Epidermal homeostasis and radiation responses in a multiscale tissue modeling framework. <i>Integrative Biology (United Kingdom)</i> , <b>2014</b> , 6, 76-89	3.7	2
123	Generalized time-dependent model of radiation-induced chromosomal aberrations in normal and repair-deficient human cells. <i>Radiation Research</i> , <b>2014</b> , 181, 284-92	3.1	9
122	Biological characterization of low-energy ions with high-energy deposition on human cells. <i>Radiation Research</i> , <b>2014</b> , 182, 282-91	3.1	21
121	Analysis of the lymphocytopoiesis dynamics in nonirradiated and irradiated humans: a modeling approach. <i>Radiation Research</i> , <b>2014</b> , 181, 240-50	3.1	15

120	Space radiation risks to the central nervous system. <i>Life Sciences in Space Research</i> , <b>2014</b> , 2, 54-69	2.4	161
119	Modeling damage complexity-dependent non-homologous end-joining repair pathway. <i>PLoS ONE</i> , <b>2014</b> , 9, e85816	3.7	24
118	Space radiation risks for astronauts on multiple International Space Station missions. <i>PLoS ONE</i> , <b>2014</b> , 9, e96099	3.7	110
117	Induction of chromosomal aberrations at fluences of less than one HZE particle per cell nucleus. <i>Radiation Research</i> , <b>2014</b> , 182, 368-79	3.1	24
116	Cosmic Rays: Hurdles on the Road to Mars. <i>Nuclear Physics News</i> , <b>2014</b> , 24, 32-34	0.7	2
115	Distinct roles of Ape1 protein, an enzyme involved in DNA repair, in high or low linear energy transfer ionizing radiation-induced cell killing. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 30635-30644	5.4	7
114	Comparison of Martian surface ionizing radiation measurements from MSL-RAD with Badhwar-O'Neill 2011/HZETRN model calculations. <i>Journal of Geophysical Research E: Planets</i> , <b>2014</b> , 119, 1311-1321	4.1	28
113	Dynamics of acutely irradiated skin epidermal epithelium in swine: modeling studies. <i>Health Physics</i> , <b>2014</b> , 107, 47-59	2.3	8
112	Diurnal variations of energetic particle radiation at the surface of Mars as observed by the Mars Science Laboratory Radiation Assessment Detector. <i>Journal of Geophysical Research E: Planets</i> , <b>2014</b> , 119, 1345-1358	4.1	39
111	New tricks for an old fox: impact of TGFβ on the DNA damage response and genomic stability. <i>Science Signaling</i> , <b>2014</b> , 7, re5	8.8	54
110	Biological effectiveness of accelerated particles for the induction of chromosome damage: track structure effects. <i>Radiation Research</i> , <b>2013</b> , 180, 25-33	3.1	18
109	Comment on "dose-responses from multi-model inference for the non-cancer disease mortality of atomic bomb survivors" ( <i>Radiat. Environ. Biophys</i> (2012) 51:165-178) by SchInberger et al. <i>Radiation and Environmental Biophysics</i> , <b>2013</b> , 52, 157-9	2	8
108	Investigation of switch from ATM to ATR signaling at the sites of DNA damage induced by low and high LET radiation. <i>DNA Repair</i> , <b>2013</b> , 12, 1143-51	4.3	23
107	Cytogenetic biodosimetry using the blood lymphocytes of astronauts. <i>Acta Astronautica</i> , <b>2013</b> , 92, 97-102	2.9	7
106	Smad7 foci are present in micronuclei induced by heavy particle radiation. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , <b>2013</b> , 756, 108-14	3	8
105	Calculation of the energy deposition in nanovolumes by protons and HZE particles: geometric patterns of initial distributions of DNA repair foci. <i>Physics in Medicine and Biology</i> , <b>2013</b> , 58, 6393-405	3.8	19
104	Random sampling of the Green's Functions for reversible reactions with an intermediate state. <i>Journal of Computational Physics</i> , <b>2013</b> , 242, 531-543	4.1	6
103	Novel Smad proteins localize to IR-induced double-strand breaks: interplay between TGFβ and ATM pathways. <i>Nucleic Acids Research</i> , <b>2013</b> , 41, 933-42	20.1	42

102	How safe is safe enough? Radiation risk for a human mission to Mars. <i>PLoS ONE</i> , <b>2013</b> , 8, e74988	3.7	135
101	Multiple CPU Computing: The Example of the Code RITRACKS. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 12-25	0.9	3
100	Modeling the Depressed Hematopoietic Cells for Immune System under Chronic Radiation. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 26-36	0.9	2
99	A Theoretical Analysis of Visual Distributions of Ionizing-Radiation-Induced Foci in Human Cells by Heavy Ions. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 1-11	0.9	
98	Modularized Smad-regulated TGF $\beta$ signaling pathway. <i>Mathematical Biosciences</i> , <b>2012</b> , 240, 187-200	3.9	5
97	Computational model of chromosome aberration yield induced by high- and low-LET radiation exposures. <i>Radiation Research</i> , <b>2012</b> , 177, 727-37	3.1	20
96	Increased Artemis levels confer radioresistance to both high and low LET radiation exposures. <i>Radiation Oncology</i> , <b>2012</b> , 7, 96	4.2	12
95	Protons sensitize epithelial cells to mesenchymal transition. <i>PLoS ONE</i> , <b>2012</b> , 7, e41249	3.7	16
94	A stochastic model of DNA fragments rejoining. <i>PLoS ONE</i> , <b>2012</b> , 7, e44293	3.7	20
93	NASCA report 2: Longitudinal study of relationship of exposure to space radiation and risk of lens opacity. <i>Radiation Research</i> , <b>2012</b> , 178, 25-32	3.1	40
92	Putative binding modes of Ku70-SAP domain with double strand DNA: a molecular modeling study. <i>Journal of Molecular Modeling</i> , <b>2012</b> , 18, 2163-74	2	15
91	Systematic review and meta-analysis of circulatory disease from exposure to low-level ionizing radiation and estimates of potential population mortality risks. <i>Environmental Health Perspectives</i> , <b>2012</b> , 120, 1503-11	8.4	215
90	Estimating Risk of Circulatory Disease: Little et al. Respond. <i>Environmental Health Perspectives</i> , <b>2012</b> , 120,	8.4	2
89	Heavy ions can enhance TGF $\beta$ -mediated epithelial to mesenchymal transition. <i>Journal of Radiation Research</i> , <b>2012</b> , 53, 51-7	2.4	14
88	Description of transport codes for space radiation shielding. <i>Health Physics</i> , <b>2012</b> , 103, 621-39	2.3	5
87	Radiation carcinogenesis risk assessments for never-smokers. <i>Health Physics</i> , <b>2012</b> , 103, 643-51	2.3	19
86	A biomathematical model of lymphopoiesis following severe radiation accidents--potential use for dose assessment. <i>Health Physics</i> , <b>2012</b> , 102, 425-36	2.3	19
85	Space radiation protection issues. <i>Health Physics</i> , <b>2012</b> , 103, 556-67	2.3	17

84	Association of inter- and intrachromosomal exchanges with the distribution of low- and high-LET radiation-induced breaks in chromosomes. <i>Radiation Research</i> , <b>2011</b> , 176, 25-37	3.1	15
83	Physical basis of radiation protection in space travel. <i>Reviews of Modern Physics</i> , <b>2011</b> , 83, 1245-1281	40.5	241
82	Characterization of the radiation-damaged precursor cells in bone marrow based on modeling of the peripheral blood granulocytes response. <i>Health Physics</i> , <b>2011</b> , 101, 67-78	2.3	20
81	mBAND analysis for high- and low-LET radiation-induced chromosome aberrations: a review. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , <b>2011</b> , 711, 187-92	3.3	27
80	AT cells are not radiosensitive for simple chromosomal exchanges at low dose. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , <b>2011</b> , 716, 76-83	3.3	12
79	Binding selectivity of RecA to a single stranded DNA, a computational approach. <i>Journal of Molecular Modeling</i> , <b>2011</b> , 17, 133-50	2	2
78	Modeling non-homologous end joining. <i>Journal of Theoretical Biology</i> , <b>2011</b> , 283, 122-35	2.3	16
77	Probabilistic assessment of radiation risk for astronauts in space missions. <i>Acta Astronautica</i> , <b>2011</b> , 68, 747-759	2.9	27
76	A model of the effects of heavy ion radiation on human tissue. <i>Advances in Space Research</i> , <b>2011</b> , 47, 37-48	2.4	1
75	Updates to astronaut radiation limits: radiation risks for never-smokers. <i>Radiation Research</i> , <b>2011</b> , 176, 102-14	3.1	31
74	Model of the initiation of signal transduction by ligands in a cell culture: simulation of molecules near a plane membrane comprising receptors. <i>Physical Review E</i> , <b>2011</b> , 84, 051920	2.4	8
73	3D visualisation of the stochastic patterns of the radial dose in nano-volumes by a Monte Carlo simulation of HZE ion track structure. <i>Radiation Protection Dosimetry</i> , <b>2011</b> , 143, 156-61	0.9	26
72	Modelling the way Ku binds DNA. <i>Radiation Protection Dosimetry</i> , <b>2011</b> , 143, 196-201	0.9	3
71	Nuclear interactions in heavy ion transport and event-based risk models. <i>Radiation Protection Dosimetry</i> , <b>2011</b> , 143, 384-90	0.9	35
70	A cell kinetic model of granulopoiesis under radiation exposure: extension from rodents to canines and humans. <i>Radiation Protection Dosimetry</i> , <b>2011</b> , 143, 207-13	0.9	8
69	Participation of DNA-PKcs in DSB repair after exposure to high- and low-LET radiation. <i>Radiation Research</i> , <b>2010</b> , 174, 195-205	3.1	38
68	Analysis of flow cytometry DNA damage response protein activation kinetics after exposure to x rays and high-energy iron nuclei. <i>Radiation Research</i> , <b>2010</b> , 174, 691-702	3.1	13
67	The analysis of the densely populated patterns of radiation-induced foci by a stochastic, Monte Carlo model of DNA double-strand breaks induction by heavy ions. <i>International Journal of Radiation Biology</i> , <b>2010</b> , 86, 507-15	2.9	11

66	Binding sites of the E. Coli DNA recombinase protein to the ssDNA: a computational study. <i>Journal of Biomolecular Structure and Dynamics</i> , <b>2010</b> , 27, 407-28	3.6	17
65	Space radiation risk limits and Earth-Moon-Mars environmental models. <i>Space Weather</i> , <b>2010</b> , 8, n/a-n/a	3.7	62
64	Energy deposition and relative frequency of hits of cylindrical nanovolume in medium irradiated by ions: Monte Carlo simulation of tracks structure. <i>Radiation and Environmental Biophysics</i> , <b>2010</b> , 49, 5-13	2	23
63	Non-targeted effects and the dose response for heavy ion tumor induction. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , <b>2010</b> , 687, 49-53	3.3	56
62	Comparison of organ dose and dose equivalent for human phantoms of CAM vs. MAX. <i>Advances in Space Research</i> , <b>2010</b> , 45, 850-857	2.4	3
61	Cross sections for the interactions of 1 eV-100 MeV electrons in liquid water and application to Monte-Carlo simulation of HZE radiation tracks. <i>New Journal of Physics</i> , <b>2009</b> , 11, 063047	2.9	77
60	NATURAL TRANSFER OF VIABLE MICROBES IN SPACE FROM PLANETS IN EXTRA-SOLAR SYSTEMS TO A PLANET IN OUR SOLAR SYSTEM AND VICE VERSA. <i>Astrophysical Journal</i> , <b>2009</b> , 690, 210-215	4.7	54
59	Using high-energy proton fluence to improve risk prediction for consequences of solar particle events. <i>Advances in Space Research</i> , <b>2009</b> , 44, 1428-1432	2.4	13
58	Dose response of gamma rays and iron nuclei for induction of chromosomal aberrations in normal and repair-deficient cell lines. <i>Radiation Research</i> , <b>2009</b> , 171, 752-63	3.1	34
57	NASA study of cataract in astronauts (NASCA). Report 1: Cross-sectional study of the relationship of exposure to space radiation and risk of lens opacity. <i>Radiation Research</i> , <b>2009</b> , 172, 10-20	3.1	106
56	Prediction of frequency and exposure level of solar particle events. <i>Health Physics</i> , <b>2009</b> , 97, 68-81	2.3	47
55	Modeling the acute health effects of astronauts from exposure to large solar particle events. <i>Health Physics</i> , <b>2009</b> , 96, 465-76	2.3	92
54	Physical and biological organ dosimetry analysis for international space station astronauts. <i>Radiation Research</i> , <b>2008</b> , 170, 127-38	3.1	140
53	Biochemical kinetics model of DSB repair and induction of gamma-H2AX foci by non-homologous end joining. <i>Radiation Research</i> , <b>2008</b> , 169, 214-22	3.1	110
52	Stochastic properties of radiation-induced DSB: DSB distributions in large scale chromatin loops, the HPRT gene and within the visible volumes of DNA repair foci. <i>International Journal of Radiation Biology</i> , <b>2008</b> , 84, 916-29	2.9	26
51	Ionization and excitation cross sections for the interaction of HZE particles in liquid water and application to Monte Carlo simulation of radiation tracks. <i>New Journal of Physics</i> , <b>2008</b> , 10, 125020	2.9	66
50	mBAND analysis of chromosomal aberrations in human epithelial cells exposed to low- and high-LET radiation. <i>Radiation Research</i> , <b>2007</b> , 168, 98-105	3.1	45
49	A temporal forecast of radiation environments for future space exploration missions. <i>Radiation and Environmental Biophysics</i> , <b>2007</b> , 46, 95-100	2	15



48	Subtraction of background damage in PFGE experiments on DNA fragment-size distributions. <i>Radiation and Environmental Biophysics</i> , <b>2007</b> , 46, 155-60	2	2
47	Description of light ion production cross sections and fluxes on the Mars surface using the QMSFRG model. <i>Radiation and Environmental Biophysics</i> , <b>2007</b> , 46, 101-6	2	19
46	Image-based modeling reveals dynamic redistribution of DNA damage into nuclear sub-domains. <i>PLoS Computational Biology</i> , <b>2007</b> , 3, e155	5	86
45	Modelling and calculations of the response of tissue equivalent proportional counter to charged particles. <i>Radiation Protection Dosimetry</i> , <b>2007</b> , 126, 512-8	0.9	7
44	Mean occurrence frequency and temporal risk analysis of solar particle events. <i>Radiation Measurements</i> , <b>2006</b> , 41, 1115-1122	1.5	6
43	Chromatin loops are responsible for higher counts of small DNA fragments induced by high-LET radiation, while chromosomal domains do not affect the fragment sizes. <i>International Journal of Radiation Biology</i> , <b>2006</b> , 82, 293-305	2.9	27
42	A robust procedure for removing background damage in assays of radiation-induced DNA fragment distributions. <i>Radiation Research</i> , <b>2006</b> , 166, 908-16	3.1	7
41	Cancer risk from exposure to galactic cosmic rays: implications for space exploration by human beings. <i>Lancet Oncology</i> , <b>2006</b> , 7, 431-5	21.7	461
40	Induction and quantification of gamma-H2AX foci following low and high LET-irradiation. <i>International Journal of Radiation Biology</i> , <b>2006</b> , 82, 111-8	2.9	168
39	Evaluation of skin cancer risk for lunar and Mars missions. <i>Advances in Space Research</i> , <b>2006</b> , 37, 1798-1803	3.1	14
38	Novel image processing interface to relate DSB spatial distribution from experiments with phosphorylation foci to the state-of-the-art models of DNA breakage. <i>Radiation Measurements</i> , <b>2006</b> , 41, 1075-1079	1.5	6
37	Model calculations of the particle spectrum of the galactic cosmic ray (GCR) environment: Assessment with ACE/CRIS and MARIE measurements. <i>Radiation Measurements</i> , <b>2006</b> , 41, 1152-1157	1.5	5
36	Evaluating shielding effectiveness for reducing space radiation cancer risks. <i>Radiation Measurements</i> , <b>2006</b> , 41, 1173-1185	1.5	82
35	Isotopic dependence of GCR fluence behind shielding. <i>Radiation Measurements</i> , <b>2006</b> , 41, 1235-1249	1.5	21
34	A procedure for benchmarking laboratory exposures with 1 A GeV iron ions. <i>Advances in Space Research</i> , <b>2005</b> , 35, 185-93	2.4	7
33	Radiation climate map for analyzing risks to astronauts on the mars surface from galactic cosmic rays. <i>Space Science Reviews</i> , <b>2004</b> , 110, 143-156	7.5	53
32	Solar particle events observed at Mars: dosimetry measurements and model calculations. <i>Advances in Space Research</i> , <b>2004</b> , 33, 2215-8	2.4	11
31	Radiation Climate Map for Analyzing Risks to Astronauts on the Mars Surface from Galactic Cosmic Rays <b>2004</b> , 143-156		2

30	Biological effectiveness of accelerated particles for the induction of chromosome damage measured in metaphase and interphase human lymphocytes. <i>Radiation Research</i> , <b>2003</b> , 160, 425-35	3.1	86
29	Radiation dosimetry and biophysical models of space radiation effects. <i>Gravitational and Space Biology Bulletin: Publication of the American Society for Gravitational and Space Biology</i> , <b>2003</b> , 16, 11-8		28
28	Model predictions and visualization of the particle flux on the surface of Mars. <i>Journal of Radiation Research</i> , <b>2002</b> , 43 Suppl, S35-9	2.4	13
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