Francis A Cucinotta

List of Publications by Citations

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	Cancer risk from exposure to galactic cosmic rays: implications for space exploration by human beings. *Lancet Oncology, The*, **2006**, 7, 431-5	21.7	461
172	Mars' surface radiation environment measured with the Mars Science Laboratory's Curiosity rover. *Science*, **2014**, 343, 1244797	33.3	343
171	Physical basis of radiation protection in space travel. *Reviews of Modern Physics*, **2011**, 83, 1245-1281	40.5	241
170	Space radiation cancer risks and uncertainties for Mars missions. *Radiation Research*, **2001**, 156, 682-8	3.1	222
169	Systematic review and meta-analysis of circulatory disease from exposure to low-level ionizing radiation and estimates of potential population mortality risks. *Environmental Health Perspectives*, **2012**, 120, 1503-11	8.4	215
168	Induction and quantification of gamma-H2AX foci following low and high LET-irradiation. *International Journal of Radiation Biology*, **2006**, 82, 111-8	2.9	168
167	Space radiation risks to the central nervous system. *Life Sciences in Space Research*, **2014**, 2, 54-69	2.4	161
166	Physical and biological organ dosimetry analysis for international space station astronauts. *Radiation Research*, **2008**, 170, 127-38	3.1	140
165	What happens to your brain on the way to Mars. *Science Advances*, **2015**, 1,	14.3	138
164	How safe is safe enough? Radiation risk for a human mission to Mars. *PLoS ONE*, **2013**, 8, e74988	3.7	135
163	Space radiation risks for astronauts on multiple International Space Station missions. *PLoS ONE*, **2014**, 9, e96099	3.7	110
162	Biochemical kinetics model of DSB repair and induction of gamma-H2AX foci by non-homologous end joining. *Radiation Research*, **2008**, 169, 214-22	3.1	110
161	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. *Radiation Research*, **2009**, 172, 10-20	3.1	106
160	Accurate universal parameterization of absorption cross sections. *Nuclear Instruments & Methods in Physics Research B*, **1996**, 117, 347-9	1.2	102
159	The Effects of Delta Rays on the Number of Particle-Track Traversals per Cell in Laboratory and Space Exposures. *Radiation Research*, **1998**, 150, 115	3.1	100
158	Modeling the acute health effects of astronauts from exposure to large solar particle events. *Health Physics*, **2009**, 96, 465-76	2.3	92
157	Image-based modeling reveals dynamic redistribution of DNA damage into nuclear sub-domains. *PLoS Computational Biology*, **2007**, 3, e155	5	86

156	Biological effectiveness of accelerated particles for the induction of chromosome damage measured in metaphase and interphase human lymphocytes. *Radiation Research*, **2003**, 160, 425-35	3.1	86
155	Evaluating shielding effectiveness for reducing space radiation cancer risks. *Radiation Measurements*, **2006**, 41, 1173-1185	1.5	82
154	Cross sections for the interactions of 1 eV–100 MeV electrons in liquid water and application to Monte-Carlo simulation of HZE radiation tracks. *New Journal of Physics*, **2009**, 11, 063047	2.9	77
153	Trapped particle energy spectrum in shuttle middeck. *Advances in Space Research*, **1996**, 18, 149-157	2.4	70
152	Ionization and excitation cross sections for the interaction of HZE particles in liquid water and application to Monte Carlo simulation of radiation tracks. *New Journal of Physics*, **2008**, 10, 125020	2.9	66
151	Review of NASA approach to space radiation risk assessments for Mars exploration. *Health Physics*, **2015**, 108, 131-42	2.3	63
150	Space radiation risk limits and Earth-Moon-Mars environmental models. *Space Weather*, **2010**, 8, n/a-n/a	3.7	62
149	Predictions of space radiation fatality risk for exploration missions. *Life Sciences in Space Research*, **2017**, 13, 1-11	2.4	57
148	Non-targeted effects and the dose response for heavy ion tumor induction. *Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis*, **2010**, 687, 49-53	3.3	56
147	New tricks for an old fox: impact of TGFβ on the DNA damage response and genomic stability. *Science Signaling*, **2014**, 7, re5	8.8	54
146	NATURAL TRANSFER OF VIABLE MICROBES IN SPACE FROM PLANETS IN EXTRA-SOLAR SYSTEMS TO A PLANET IN OUR SOLAR SYSTEM AND VICE VERSA. *Astrophysical Journal*, **2009**, 690, 210-215	4.7	54
145	Radiation climate map for analyzing risks to astronauts on the mars surface from galactic cosmic rays. *Space Science Reviews*, **2004**, 110, 143-156	7.5	53
144	Radiation exposure for human Mars exploration. *Health Physics*, **2000**, 79, 515-25	2.3	51
143	Prediction of frequency and exposure level of solar particle events. *Health Physics*, **2009**, 97, 68-81	2.3	47
142	mBAND analysis of chromosomal aberrations in human epithelial cells exposed to low- and high-LET radiation. *Radiation Research*, **2007**, 168, 98-105	3.1	45
141	A new approach to reduce uncertainties in space radiation cancer risk predictions. *PLoS ONE*, **2015**, 10, e0120717	3.7	45
140	An Analysis of Interplanetary Space Radiation Exposure for Various Solar Cycles. *Radiation Research* , **1994**, 138, 201	3.1	43
139	Non-Targeted Effects Models Predict Significantly Higher Mars Mission Cancer Risk than Targeted Effects Models. *Scientific Reports*, **2017**, 7, 1832	4.9	42

138	Novel Smad proteins localize to IR-induced double-strand breaks: interplay between TGF and ATM pathways. *Nucleic Acids Research*, **2013**, 41, 933-42	20.1	42
137	NASCA report 2: Longitudinal study of relationship of exposure to space radiation and risk of lens opacity. *Radiation Research*, **2012**, 178, 25-32	3.1	40
136	Diurnal variations of energetic particle radiation at the surface of Mars as observed by the Mars Science Laboratory Radiation Assessment Detector. *Journal of Geophysical Research E: Planets*, **2014**, 119, 1345-1358	4.1	39
135	Participation of DNA-PKcs in DSB repair after exposure to high- and low-LET radiation. *Radiation Research*, **2010**, 174, 195-205	3.1	38
134	Biological Effectiveness of High-Energy Protons: Target Fragmentation. *Radiation Research*, **1991**, 127, 130	3.1	38
133	A comparison of depth dependence of dose and linear energy transfer spectra in aluminum and polyethylene. *Radiation Research*, **2000**, 153, 1-8	3.1	37
132	Issues for Simulation of Galactic Cosmic Ray Exposures for Radiobiological Research at Ground-Based Accelerators. *Frontiers in Oncology*, **2015**, 5, 122	5.3	36
131	Safe days in space with acceptable uncertainty from space radiation exposure. *Life Sciences in Space Research*, **2015**, 5, 31-8	2.4	35
130	Nuclear interactions in heavy ion transport and event-based risk models. *Radiation Protection Dosimetry*, **2011**, 143, 384-90	0.9	35
129	The response of tissue-equivalent proportional counters to heavy ions. *Radiation Research*, **2002**, 157, 435-45	3.1	35
128	Dose response of gamma rays and iron nuclei for induction of chromosomal aberrations in normal and repair-deficient cell lines. *Radiation Research*, **2009**, 171, 752-63	3.1	34
127	No evidence for an increase in circulatory disease mortality in astronauts following space radiation exposures. *Life Sciences in Space Research*, **2016**, 10, 53-6	2.4	33
126	Measurements of the secondary particle energy spectra in the Space Shuttle. *Radiation Measurements*, **1995**, 24, 129-38	1.5	32
125	Survey of Cellular Radiosensitivity Parameters. *Radiation Research*, **1994**, 140, 356	3.1	32
124	Risks of cognitive detriments after low dose heavy ion and proton exposures. *International Journal of Radiation Biology*, **2019**, 95, 985-998	2.9	31
123	Updates to astronaut radiation limits: radiation risks for never-smokers. *Radiation Research*, **2011**, 176, 102-14	3.1	31
122	Harderian Gland Tumorigenesis: Low-Dose and LET Response. *Radiation Research*, **2016**, 185, 449-60	3.1	29
121	Comparison of Martian surface ionizing radiation measurements from MSL-RAD with Badhwar-O'Neill 2011/HZETRN model calculations. *Journal of Geophysical Research E: Planets*, **2014**, 119, 1311-1321	4.1	28

120	Radiation dosimetry and biophysical models of space radiation effects. *Gravitational and Space Biology Bulletin: Publication of the American Society for Gravitational and Space Biology*, **2003**, 16, 11-8		28
119	mBAND analysis for high- and low-LET radiation-induced chromosome aberrations: a review. *Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis*, **2011**, 711, 187-92	3.3	27
118	Probabilistic assessment of radiation risk for astronauts in space missions. *Acta Astronautica*, **2011**, 68, 747-759	2.9	27
117	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. *International Journal of Radiation Biology*, **2006**, 82, 293-305	2.9	27
116	3D visualisation of the stochastic patterns of the radial dose in nano-volumes by a Monte Carlo simulation of HZE ion track structure. *Radiation Protection Dosimetry*, **2011**, 143, 156-61	0.9	26
115	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. *International Journal of Radiation Biology*, **2008**, 84, 916-29	2.9	26
114	Irradiation of Neurons with High-Energy Charged Particles: An In Silico Modeling Approach. *PLoS Computational Biology*, **2015**, 11, e1004428	5	26
113	HEMODOSE: A Biodosimetry Tool Based on Multi-type Blood Cell Counts. *Health Physics*, **2015**, 109, 54-68	0.83	25
112	Defining the Biological Effectiveness of Components of High-LET Track Structure. *Radiation Research*, **2015**, 184, 105-19	3.1	25
111	Modeling damage complexity-dependent non-homologous end-joining repair pathway. *PLoS ONE*, **2014**, 9, e85816	3.7	24
110	Induction of chromosomal aberrations at fluences of less than one HZE particle per cell nucleus. *Radiation Research*, **2014**, 182, 368-79	3.1	24
109	Low-Dose Radiation Therapy (LDRT) for COVID-19: Benefits or Risks?. *Radiation Research*, **2020**, 194, 452-464	3.1	24
108	Investigation of switch from ATM to ATR signaling at the sites of DNA damage induced by low and high LET radiation. *DNA Repair*, **2013**, 12, 1143-51	4.3	23
107	Energy deposition and relative frequency of hits of cylindrical nanovolume in medium irradiated by ions: Monte Carlo simulation of tracks structure. *Radiation and Environmental Biophysics*, **2010**, 49, 5-13	2	23
106	Relative Biological Effectiveness of HZE Particles for Chromosomal Exchanges and Other Surrogate Cancer Risk Endpoints. *PLoS ONE*, **2016**, 11, e0153998	3.7	22
105	Biological characterization of low-energy ions with high-energy deposition on human cells. *Radiation Research*, **2014**, 182, 282-91	3.1	21
104	Isotopic dependence of GCR fluence behind shielding. *Radiation Measurements*, **2006**, 41, 1235-1249	1.5	21
103	Computational model of chromosome aberration yield induced by high- and low-LET radiation exposures. *Radiation Research*, **2012**, 177, 727-37	3.1	20

102	A stochastic model of DNA fragments rejoining. *PLoS ONE*, **2012**, 7, e44293	3.7	20
101	Characterization of the radiation-damaged precursor cells in bone marrow based on modeling of the peripheral blood granulocytes response. *Health Physics*, **2011**, 101, 67-78	2.3	20
100	Issues in risk assessment from solar particle events. *Radiation Measurements*, **1999**, 30, 261-8	1.5	20
99	Calculation of the energy deposition in nanovolumes by protons and HZE particles: geometric patterns of initial distributions of DNA repair foci. *Physics in Medicine and Biology*, **2013**, 58, 6393-405	3.8	19
98	Radiation carcinogenesis risk assessments for never-smokers. *Health Physics*, **2012**, 103, 643-51	2.3	19
97	A biomathematical model of lymphopoiesis following severe radiation accidents--potential use for dose assessment. *Health Physics*, **2012**, 102, 425-36	2.3	19
96	Description of light ion production cross sections and fluxes on the Mars surface using the QMSFRG model. *Radiation and Environmental Biophysics*, **2007**, 46, 101-6	2	19
95	Temporal Analysis of the October 1989 Proton Flare Using Computerized Anatomical Models. *Radiation Research*, **1993**, 133, 1	3.1	19
94	Biological effectiveness of accelerated particles for the induction of chromosome damage: track structure effects. *Radiation Research*, **2013**, 180, 25-33	3.1	18
93	Binding sites of the E. Coli DNA recombinase protein to the ssDNA: a computational study. *Journal of Biomolecular Structure and Dynamics*, **2010**, 27, 407-28	3.6	17
92	Space radiation protection issues. *Health Physics*, **2012**, 103, 556-67	2.3	17
91	Protons sensitize epithelial cells to mesenchymal transition. *PLoS ONE*, **2012**, 7, e41249	3.7	16
90	Modeling non-homologous end joining. *Journal of Theoretical Biology*, **2011**, 283, 122-35	2.3	16
89	Analysis of the lymphocytopoiesis dynamics in nonirradiated and irradiated humans: a modeling approach. *Radiation Research*, **2014**, 181, 240-50	3.1	15
88	Putative binding modes of Ku70-SAP domain with double strand DNA: a molecular modeling study. *Journal of Molecular Modeling*, **2012**, 18, 2163-74	2	15
87	Association of inter- and intrachromosomal exchanges with the distribution of low- and high-LET radiation-induced breaks in chromosomes. *Radiation Research*, **2011**, 176, 25-37	3.1	15
86	A temporal forecast of radiation environments for future space exploration missions. *Radiation and Environmental Biophysics*, **2007**, 46, 95-100	2	15
85	Modeling Heavy-Ion Impairment of Hippocampal Neurogenesis after Acute and Fractionated Irradiation. *Radiation Research*, **2016**, 186, 624-637	3.1	15

84	Modeling Impaired Hippocampal Neurogenesis after Radiation Exposure. *Radiation Research*, **2016**, 185, 319-31	3.1	15
83	Biophysics Model of Heavy-Ion Degradation of Neuron Morphology in Mouse Hippocampal Granular Cell Layer Neurons. *Radiation Research*, **2018**, 189, 312-325	3.1	14
82	Heavy ions can enhance TGF□mediated epithelial to mesenchymal transition. *Journal of Radiation Research*, **2012**, 53, 51-7	2.4	14
81	Evaluation of skin cancer risk for lunar and Mars missions. *Advances in Space Research*, **2006**, 37, 1798-1803	2.4	14
80	Alpha-cluster description of excitation energies in 12C(12C,3 alpha)X at 2.1A GeV. *Physical Review C* , **1994**, 50, 1090-6	2.7	14
79	Biological Effectiveness of Accelerated Protons for Chromosome Exchanges. *Frontiers in Oncology*, **2015**, 5, 226	5.3	13
78	Analysis of flow cytometry DNA damage response protein activation kinetics after exposure to x rays and high-energy iron nuclei. *Radiation Research*, **2010**, 174, 691-702	3.1	13
77	Using high-energy proton fluence to improve risk prediction for consequences of solar particle events. *Advances in Space Research*, **2009**, 44, 1428-1432	2.4	13
76	Model predictions and visualization of the particle flux on the surface of Mars. *Journal of Radiation Research*, **2002**, 43 Suppl, S35-9	2.4	13
75	Implementation of Gy-Eq for deterministic effects limitation in shield design. *Journal of Radiation Research*, **2002**, 43 Suppl, S103-6	2.4	13
74	Increased Artemis levels confer radioresistance to both high and low LET radiation exposures. *Radiation Oncology*, **2012**, 7, 96	4.2	12
73	AT cells are not radiosensitive for simple chromosomal exchanges at low dose. *Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis*, **2011**, 716, 76-83	3.3	12
72	Cancer Risk of Low Dose Ionizing Radiation. *Frontiers in Physics*, **2020**, 8,	3.9	12
71	Stochastic Modeling of Radiation-induced Dendritic Damage on in silico Mouse Hippocampal Neurons. *Scientific Reports*, **2018**, 8, 5494	4.9	11
70	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. *International Journal of Radiation Biology*, **2010**, 86, 507-15	2.9	11
69	Nuclear absorption cross sections using medium modified nucleon-nucleon amplitudes. *Nuclear Instruments & Methods in Physics Research B*, **1998**, 145, 277-82	1.2	11
68	Solar particle events observed at Mars: dosimetry measurements and model calculations. *Advances in Space Research*, **2004**, 33, 2215-8	2.4	11
67	Radial dose distributions in the delta-ray theory of track structure. *AIP Conference Proceedings*, **1996**,	0	11

66	Depth-Dose Equivalent Relationship for Cosmic Rays at Various Solar Minima. *Radiation Research*, **1993**, 134, 9	3.1	11
65	Visualization of particle flux in the human body on the surface of Mars. *Journal of Radiation Research*, **2002**, 43 Suppl, S119-24	2.4	10
64	Meta-analysis of Cognitive Performance by Novel Object Recognition after Proton and Heavy Ion Exposures. *Radiation Research*, **2019**, 192, 463-472	3.1	9
63	Generalized time-dependent model of radiation-induced chromosomal aberrations in normal and repair-deficient human cells. *Radiation Research*, **2014**, 181, 284-92	3.1	9
62	Initiation-promotion model of tumor prevalence in mice from space radiation exposures. *Radiation and Environmental Biophysics*, **1995**, 34, 145-9	2	9
61	Production of 3H at large momentum in alpha-12C collisions at 2A GeV. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **1992**, 282, 1-6	4.2	9
60	Space Radiation Quality Factors and the Delta Ray Dose and Dose-Rate Reduction Effectiveness Factor. *Health Physics*, **2016**, 110, 262-6	2.3	9
59	Cancer and circulatory disease risks for a human mission to Mars: Private mission considerations. *Acta Astronautica*, **2020**, 166, 529-536	2.9	9
58	Comment on "dose-responses from multi-model inference for the non-cancer disease mortality of atomic bomb survivors" (Radiat. Environ. Biophys (2012) 51:165-178) by Schl□nberger et al. *Radiation and Environmental Biophysics*, **2013**, 52, 157-9	2	8
57	Smad7 foci are present in micronuclei induced by heavy particle radiation. *Mutation Research - Genetic Toxicology and Environmental Mutagenesis*, **2013**, 756, 108-14	3	8
56	Dynamics of acutely irradiated skin epidermal epithelium in swine: modeling studies. *Health Physics*, **2014**, 107, 47-59	2.3	8
55	Model of the initiation of signal transduction by ligands in a cell culture: simulation of molecules near a plane membrane comprising receptors. *Physical Review E*, **2011**, 84, 051920	2.4	8
54	A cell kinetic model of granulopoiesis under radiation exposure: extension from rodents to canines and humans. *Radiation Protection Dosimetry*, **2011**, 143, 207-13	0.9	8
53	Multiple-scattering effects in quasielastic alpha-4He scattering. *Physical Review C*, **1992**, 46, 1451-6	2.7	8
52	Energy deposition at the bone-tissue interface from nuclear fragments produced by high-energy nucleons. *Health Physics*, **1990**, 59, 819-25	2.3	8
51	Predictions of cognitive detriments from galactic cosmic ray exposures to astronauts on exploration missions. *Life Sciences in Space Research*, **2020**, 25, 129-135	2.4	8
50	NON-TARGETED EFFECTS LEAD TO A PARIDIGM SHIFT IN RISK ASSESSMENT FOR A MISSION TO THE EARTH'S MOON OR MARTIAN MOON PHOBOS. *Radiation Protection Dosimetry*, **2019**, 183, 213-218	0.9	8
49	Track structure model of microscopic energy deposition by protons and heavy ions in segments of neuronal cell dendrites represented by cylinders or spheres. *Life Sciences in Space Research*, **2017**, 13, 27-38	2.4	7

48	Cytogenetic biodosimetry using the blood lymphocytes of astronauts. *Acta Astronautica*, **2013**, 92, 97-102	2.9	7
47	Distinct roles of Ape1 protein, an enzyme involved in DNA repair, in high or low linear energy transfer ionizing radiation-induced cell killing. *Journal of Biological Chemistry*, **2014**, 289, 30635-30644	5.4	7
46	Modelling and calculations of the response of tissue equivalent proportional counter to charged particles. *Radiation Protection Dosimetry*, **2007**, 126, 512-8	0.9	7
45	A robust procedure for removing background damage in assays of radiation-induced DNA fragment distributions. *Radiation Research*, **2006**, 166, 908-16	3.1	7
44	A procedure for benchmarking laboratory exposures with 1 A GeV iron ions. *Advances in Space Research*, **2005**, 35, 185-93	2.4	7
43	Transport Methods and Interactions for Space Radiations **1993**, 187-786		7
42	Random sampling of the Green Functions for reversible reactions with an intermediate state. *Journal of Computational Physics*, **2013**, 242, 531-543	4.1	6
41	Mean occurrence frequency and temporal risk analysis of solar particle events. *Radiation Measurements*, **2006**, 41, 1115-1122	1.5	6
40	Novel image processing interface to relate DSB spatial distribution from experiments with phosphorylation foci to the state-of-the-art models of DNA breakage. *Radiation Measurements*, **2006**, 41, 1075-1079	1.5	6
39	Shuttle measurements of galactic cosmic radiation let spectra. *Advances in Space Research*, **1996**, 18, 159-165	2.4	6
38	Biophysics of NASA radiation quality factors. *Radiation Protection Dosimetry*, **2015**, 166, 282-9	0.9	5
37	Modularized Smad-regulated TGF signaling pathway. *Mathematical Biosciences*, **2012**, 240, 187-200	3.9	5
36	Description of transport codes for space radiation shielding. *Health Physics*, **2012**, 103, 621-39	2.3	5
35	Model calculations of the particle spectrum of the galactic cosmic ray (GCR) environment: Assessment with ACE/CRIS and MARIE measurements. *Radiation Measurements*, **2006**, 41, 1152-1157	1.5	5
34	Benchmarking risk predictions and uncertainties in the NSCR model of GCR cancer risks with revised low let risk coefficients. *Life Sciences in Space Research*, **2020**, 27, 64-73	2.4	4
33	Modeling Reveals the Dependence of Hippocampal Neurogenesis Radiosensitivity on Age and Strain of Rats. *Frontiers in Neuroscience*, **2018**, 12, 980	5.1	4
32	Comparison of signaling profiles in the low dose range following low and high LET radiation. *Life Sciences in Space Research*, **2020**, 25, 28-41	2.4	3
31	Modelling the way Ku binds DNA. *Radiation Protection Dosimetry*, **2011**, 143, 196-201	0.9	3

30	Comparison of organ dose and dose equivalent for human phantoms of CAM vs. MAX. *Advances in Space Research*, **2010**, 45, 850-857	2.4	3
29	Multiple CPU Computing: The Example of the Code RITRACKS. *Lecture Notes in Computer Science*, **2013**, 12-25	0.9	3
28	A proposed change to astronaut exposures limits is a giant leap backwards for radiation protection. *Life Sciences in Space Research*, **2021**, 31, 59-70	2.4	3
27	Response Letter: Radiation therapy for COVID-19 pneumopathy. *Radiotherapy and Oncology*, **2020**, 149, 238-239	5.3	2
26	Mathematical Model of ATM Activation and Chromatin Relaxation by Ionizing Radiation. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	2
25	Dynamical modeling approach to risk assessment for radiogenic leukemia among astronauts engaged in interplanetary space missions. *Life Sciences in Space Research*, **2018**, 16, 76-83	2.4	2
24	Epidermal homeostasis and radiation responses in a multiscale tissue modeling framework. *Integrative Biology (United Kingdom)*, **2014**, 6, 76-89	3.7	2
23	Cosmic Rays: Hurdles on the Road to Mars. *Nuclear Physics News*, **2014**, 24, 32-34	0.7	2
22	Binding selectivity of RecA to a single stranded DNA, a computational approach. *Journal of Molecular Modeling*, **2011**, 17, 133-50	2	2
21	Estimating Risk of Circulatory Disease: Little et al. Respond. *Environmental Health Perspectives*, **2012**, 120,	8.4	2
20	Subtraction of background damage in PFGE experiments on DNA fragment-size distributions. *Radiation and Environmental Biophysics*, **2007**, 46, 155-60	2	2
19	Race and ethnic group dependent space radiation cancer risk predictions.. *Scientific Reports*, **2022**, 12, 2028	4.9	2
18	Modeling the Depressed Hematopoietic Cells for Immune System under Chronic Radiation. *Lecture Notes in Computer Science*, **2013**, 26-36	0.9	2
17	DETRIMENTS IN NEURON MORPHOLOGY FOLLOWING HEAVY ION IRRADIATION: WHAT'S THE TARGET?. *Radiation Protection Dosimetry*, **2019**, 183, 69-74	0.9	2
16	Pion-heavy ion scattering total and inelastic cross sections for space radiation applications. *Nuclear Instruments & Methods in Physics Research B*, **2019**, 438, 14-19	1.2	2
15	Radiation Climate Map for Analyzing Risks to Astronauts on the Mars Surface from Galactic Cosmic Rays **2004**, 143-156		2
14	2nd-order optical model of the isotopic dependence of heavy ion absorption cross sections for radiation transport studies. *Nuclear Instruments & Methods in Physics Research B*, **2018**, 414, 11-17	1.2	1
13	Skin Response to Single and Fractionated Irradiation: Dynamic Modeling Approach. *Health Physics*, **2016**, 111, 513-527	2.3	1

12	Nitric Oxide Is Involved in Heavy Ion-Induced Non-Targeted Effects in Human Fibroblasts. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	1
11	Calculations of distance distributions and probabilities of binding by ligands between parallel plane membranes comprising receptors. *Computer Physics Communications*, **2014**, 185, 697-707	4.2	1
10	A model of the effects of heavy ion radiation on human tissue. *Advances in Space Research*, **2011**, 47, 37-48	2.4	1
9	Theoretical nuclear database for high-energy, heavy-ion (HZE) transport. *Radiation and Environmental Biophysics*, **1995**, 34, 151-4	2	1
8	Dependence of the human leukemia risk on the dose and dose rate of continuous irradiation: Modeling study. *Life Sciences in Space Research*, **2018**, 19, 17-23	2.4	1
7	Race and Ethnic Group Dependent Space Radiation Cancer Risk Predictions		1
6	Future space missions and human enhancement: Medical and ethical challenges. *Futures*, **2021**, 133, 102819	3.9	1
5	Comparison between PHITS and GEANT4 Simulations of the Heavy Ion Beams at the BEVALAC at LBNL and the Booster Accelerator at BNL. *Life Sciences in Space Research*, **2021**, 29, 38-45	2.4	0
4	Carbon Ion Radiotherapy in the Management of Hepatocellular Carcinoma. *Journal of Hepatocellular Carcinoma*, **2021**, 8, 1169-1179	5.3	0
3	Study of Total, Absorption, and He and H Production Cross Sections in He-proton Collisions.. *Nuclear Instruments & Methods in Physics Research B*, **2021**, 502, 136-141	1.2	0
2	SEVENTEENTH INTERNATIONAL SYMPOSIUM ON MICRODOSIMETRY. *Radiation Protection Dosimetry*, **2019**, 183, 1-2	0.9	
1	A Theoretical Analysis of Visual Distributions of Ionizing-Radiation-Induced Foci in Human Cells by Heavy Ions. *Lecture Notes in Computer Science*, **2013**, 1-11	0.9	