

Marco Durante

List of Publications by Citations

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449
papers

12,594
citations

54
h-index

93
g-index

476
ext. papers

14,743
ext. citations

3.6
avg, IF

7
L-index

#	Paper	IF	Citations
449	Charged particles in radiation oncology. <i>Nature Reviews Clinical Oncology</i> , 2010 , 7, 37-43	19.4	467
448	Cancer risk from exposure to galactic cosmic rays: implications for space exploration by human beings. <i>Lancet Oncology</i> , 2006 , 7, 431-5	21.7	461
447	Carbon ion radiotherapy in Japan: an assessment of 20 years of clinical experience. <i>Lancet Oncology</i> , 2015 , 16, e93-e100	21.7	322
446	Charged particle therapy--optimization, challenges and future directions. <i>Nature Reviews Clinical Oncology</i> , 2013 , 10, 411-24	19.4	284
445	Assessing the risk of second malignancies after modern radiotherapy. <i>Nature Reviews Cancer</i> , 2011 , 11, 438-48	31.3	274
444	Motion in radiotherapy: particle therapy. <i>Physics in Medicine and Biology</i> , 2011 , 56, R113-44	3.8	255
443	Physical basis of radiation protection in space travel. <i>Reviews of Modern Physics</i> , 2011 , 83, 1245-1281	40.5	241
442	DNA double-strand breaks in heterochromatin elicit fast repair protein recruitment, histone H2AX phosphorylation and relocation to euchromatin. <i>Nucleic Acids Research</i> , 2011 , 39, 6489-99	20.1	218
441	Quantification of the relative biological effectiveness for ion beam radiotherapy: direct experimental comparison of proton and carbon ion beams and a novel approach for treatment planning. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010 , 78, 1177-83	4	215
440	Charged-particle therapy in cancer: clinical uses and future perspectives. <i>Nature Reviews Clinical Oncology</i> , 2017 , 14, 483-495	19.4	213
439	Proton radiobiology. <i>Cancers</i> , 2015 , 7, 353-81	6.6	153
438	Live cell microscopy analysis of radiation-induced DNA double-strand break motion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 3172-7	11.5	150
437	Systematic analysis of RBE and related quantities using a database of cell survival experiments with ion beam irradiation. <i>Journal of Radiation Research</i> , 2013 , 54, 494-514	2.4	146
436	Nuclear physics in particle therapy: a review. <i>Reports on Progress in Physics</i> , 2016 , 79, 096702	14.4	143
435	A simple method for simultaneous interphase-metaphase chromosome analysis in biodosimetry. <i>International Journal of Radiation Biology</i> , 1998 , 74, 457-62	2.9	136
434	Calculation of the biological effects of ion beams based on the microscopic spatial damage distribution pattern. <i>International Journal of Radiation Biology</i> , 2012 , 88, 103-7	2.9	135
433	Space radiation protection: Destination Mars. <i>Life Sciences in Space Research</i> , 2014 , 1, 2-9	2.4	107

432	Chromosome aberrations in the blood lymphocytes of astronauts after space flight. <i>Radiation Research</i> , 2001 , 156, 731-8	3.1	105
431	Immunofluorescence detection of clustered gamma-H2AX foci induced by HZE-particle radiation. <i>Radiation Research</i> , 2005 , 164, 518-22	3.1	99
430	Identification of the elementary structural units of the DNA damage response. <i>Nature Communications</i> , 2017 , 8, 15760	17.4	94
429	New challenges in high-energy particle radiobiology. <i>British Journal of Radiology</i> , 2014 , 87, 20130626	3.4	92
428	Karyotypes of human lymphocytes exposed to high-energy iron ions. <i>Radiation Research</i> , 2002 , 158, 581-90	3.0	90
427	Inactivation of human normal and tumour cells irradiated with low energy protons. <i>International Journal of Radiation Biology</i> , 2000 , 76, 831-9	2.9	90
426	Heart in space: effect of the extraterrestrial environment on the cardiovascular system. <i>Nature Reviews Cardiology</i> , 2018 , 15, 167-180	14.8	89
425	Kill-painting of hypoxic tumours in charged particle therapy. <i>Scientific Reports</i> , 2015 , 5, 17016	4.9	87
424	Biological effectiveness of accelerated particles for the induction of chromosome damage measured in metaphase and interphase human lymphocytes. <i>Radiation Research</i> , 2003 , 160, 425-35	3.1	86
423	Faster and safer? FLASH ultra-high dose rate in radiotherapy. <i>British Journal of Radiology</i> , 2018 , 91, 20170628	9.4	81
422	Simulations of dose enhancement for heavy atom nanoparticles irradiated by protons. <i>Physics in Medicine and Biology</i> , 2014 , 59, 1441-58	3.8	80
421	Effects of sparsely and densely ionizing radiation on plants. <i>Radiation and Environmental Biophysics</i> , 2011 , 50, 1-19	2	79
420	Galactic cosmic ray simulation at the NASA Space Radiation Laboratory. <i>Life Sciences in Space Research</i> , 2016 , 8, 38-51	2.4	78
419	Organotypic slice cultures of human glioblastoma reveal different susceptibilities to treatments. <i>Neuro-Oncology</i> , 2013 , 15, 670-81	1	74
418	Immunologically augmented cancer treatment using modern radiotherapy. <i>Trends in Molecular Medicine</i> , 2013 , 19, 565-82	11.5	73
417	Modeling cell survival after photon irradiation based on double-strand break clustering in megabase pair chromatin loops. <i>Radiation Research</i> , 2012 , 178, 385-94	3.1	70
416	Impact of enhancements in the local effect model (LEM) on the predicted RBE-weighted target dose distribution in carbon ion therapy. <i>Physics in Medicine and Biology</i> , 2012 , 57, 7261-74	3.8	69
415	New Ions for Therapy. <i>International Journal of Particle Therapy</i> , 2016 , 2, 428-438	1.5	69

4 ¹⁴	Helium ions for radiotherapy? Physical and biological verifications of a novel treatment modality. <i>Medical Physics</i> , 2016 , 43, 1995	4.4	68
4 ¹³	From DNA damage to chromosome aberrations: joining the break. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2013 , 756, 5-13	3	67
4 ¹²	Feasibility Study on Cardiac Arrhythmia Ablation Using High-Energy Heavy Ion Beams. <i>Scientific Reports</i> , 2016 , 6, 38895	4.9	67
4 ¹¹	Motion mitigation in intensity modulated particle therapy by internal target volumes covering range changes. <i>Medical Physics</i> , 2012 , 39, 6004-13	4.4	66
4 ¹⁰	Biodosimetry Results from Space Flight Mir-18. <i>Radiation Research</i> , 1997 , 148, S17	3.1	66
4 ⁰⁹	Clustered DNA damage induces pan-nuclear H2AX phosphorylation mediated by ATM and DNA-PK. <i>Nucleic Acids Research</i> , 2013 , 41, 6109-18	20.1	65
4 ⁰⁸	Ion beam transport calculations and treatment plans in particle therapy. <i>European Physical Journal D</i> , 2010 , 60, 195-202	1.3	65
4 ⁰⁷	Chromosome aberration dosimetry in cosmonauts after single or multiple space flights. <i>Cytogenetic and Genome Research</i> , 2003 , 103, 40-6	1.9	65
4 ⁰⁶	Biological effects of space radiation on human cells: history, advances and outcomes. <i>Journal of Radiation Research</i> , 2011 , 52, 126-46	2.4	64
4 ⁰⁵	Speed and accuracy of a beam tracking system for treatment of moving targets with scanned ion beams. <i>Physics in Medicine and Biology</i> , 2009 , 54, 4849-62	3.8	64
4 ⁰⁴	Rejoining and Misrejoining of Radiation-Induced Chromatin Breaks. IV. Charged Particles. <i>Radiation Research</i> , 1998 , 149, 446	3.1	64
4 ⁰³	Association between G 2 -Phase Block and Repair of Radiation-Induced Chromosome Fragments in Human Lymphocytes. <i>Radiation Research</i> , 1999 , 151, 670	3.1	62
4 ⁰²	Chromosome condensation outside of mitosis: mechanisms and new tools. <i>Journal of Cellular Physiology</i> , 2006 , 209, 297-304	7	60
4 ⁰¹	Including oxygen enhancement ratio in ion beam treatment planning: model implementation and experimental verification. <i>Physics in Medicine and Biology</i> , 2013 , 58, 3871-95	3.8	59
4 ⁰⁰	Heavy-ion induced chromosomal aberrations: a review. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2010 , 701, 38-46	3	59
399	Radiation-Induced Chromosomal Aberrations and Immunotherapy: Micronuclei, Cytosolic DNA, and Interferon-Production Pathway. <i>Frontiers in Oncology</i> , 2018 , 8, 192	5.3	58
398	Assessment of potential advantages of relevant ions for particle therapy: a model based study. <i>Medical Physics</i> , 2015 , 42, 1037-47	4.4	56
397	Out-of-field dose measurements in a water phantom using different radiotherapy modalities. <i>Physics in Medicine and Biology</i> , 2012 , 57, 5059-74	3.8	56

396	DNA end resection is needed for the repair of complex lesions in G1-phase human cells. <i>Cell Cycle</i> , 2014 , 13, 2509-16	4.7	54
395	X-rays vs. carbon-ion tumor therapy: cytogenetic damage in lymphocytes. <i>International Journal of Radiation Oncology Biology Physics</i> , 2000 , 47, 793-8	4	54
394	Cytogenetic effects of high-energy iron ions: dependence on shielding thickness and material. <i>Radiation Research</i> , 2005 , 164, 571-6	3.1	53
393	Risk estimation based on chromosomal aberrations induced by radiation. <i>Radiation Research</i> , 2001 , 156, 662-7	3.1	53
392	Chromatid break rejoining and exchange aberration formation following gamma-ray exposure: analysis in G2 human fibroblasts by chemically induced premature chromosome condensation. <i>International Journal of Radiation Biology</i> , 1999 , 75, 1129-35	2.9	53
391	Measurement of charged particle yields from PMMA irradiated by a 220 MeV/u (12)C beam. <i>Physics in Medicine and Biology</i> , 2014 , 59, 1857-72	3.8	52
390	Ground-based research with heavy ions for space radiation protection. <i>Advances in Space Research</i> , 2005 , 35, 180-4	2.4	51
389	Spatiotemporal analysis of DNA repair using charged particle radiation. <i>Mutation Research - Reviews in Mutation Research</i> , 2010 , 704, 54-60	7	50
388	Chromosome intrachanges and interchanges detected by multicolor banding in lymphocytes: searching for clastogen signatures in the human genome. <i>Radiation Research</i> , 2004 , 161, 540-8	3.1	50
387	The quality of DNA double-strand breaks: a Monte Carlo simulation of the end-structure of strand breaks produced by protons and alpha particles. <i>Radiation and Environmental Biophysics</i> , 1995 , 34, 239-44	2	50
386	Shielding from cosmic radiation for interplanetary missions: Active and passive methods. <i>Radiation Measurements</i> , 2007 , 42, 14-23	1.5	49
385	Does Heavy Ion Therapy Work Through the Immune System?. <i>International Journal of Radiation Oncology Biology Physics</i> , 2016 , 96, 934-936	4	49
384	Upgrade and benchmarking of a 4D treatment planning system for scanned ion beam therapy. <i>Medical Physics</i> , 2013 , 40, 051722	4.4	48
383	Effectiveness of monoenergetic and spread-out bragg peak carbon-ions for inactivation of various normal and tumour human cell lines. <i>Journal of Radiation Research</i> , 2008 , 49, 597-607	2.4	48
382	Biomarkers of space radiation risk. <i>Radiation Research</i> , 2005 , 164, 467-73	3.1	47
381	Mapping of RBE-weighted doses between HIMAC- and LEM-Based treatment planning systems for carbon ion therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012 , 84, 854-60	4	46
380	Induction of Chromosome Aberrations in Human Cells by Charged Particles. <i>Radiation Research</i> , 1997 , 148, S102	3.1	44
379	Hibernation for space travel: Impact on radioprotection. <i>Life Sciences in Space Research</i> , 2016 , 11, 1-9	2.4	44

378	Particle therapy for noncancer diseases. <i>Medical Physics</i> , 2012 , 39, 1716-27	4.4	43
377	Chromosome damage in human cells by γ rays, μ particles and heavy ions: track interactions in basic dose-response relationships. <i>Radiation Research</i> , 2013 , 179, 9-20	3.1	42
376	Carbon Ion Radiobiology. <i>Cancers</i> , 2020 , 12,	6.6	42
375	All the fun of the FAIR: fundamental physics at the facility for antiproton and ion research. <i>Physica Scripta</i> , 2019 , 94, 033001	2.6	42
374	Heavy Ions in Cancer Therapy. <i>JAMA Oncology</i> , 2016 , 2, 1539-1540	13.4	41
373	Physical and biological factors determining the effective proton range. <i>Medical Physics</i> , 2013 , 40, 111716	4.4	41
372	Oxygen beams for therapy: advanced biological treatment planning and experimental verification. <i>Physics in Medicine and Biology</i> , 2017 , 62, 7798-7813	3.8	40
371	Biological dose estimation of UVA laser microirradiation utilizing charged particle-induced protein foci. <i>Mutagenesis</i> , 2010 , 25, 289-97	2.8	40
370	High-LET radiation-induced aberrations in prematurely condensed G2 chromosomes of human fibroblasts. <i>International Journal of Radiation Biology</i> , 2000 , 76, 929-37	2.9	40
369	The Immunoregulatory Potential of Particle Radiation in Cancer Therapy. <i>Frontiers in Immunology</i> , 2017 , 8, 99	8.4	39
368	Heavy Charged Particles: Does Improved Precision and Higher Biological Effectiveness Translate to Better Outcome in Patients?. <i>Seminars in Radiation Oncology</i> , 2018 , 28, 160-167	5.5	38
367	Observations on the Influence of Tool-Sheet Contact Conditions on an Incremental Forming Process. <i>Journal of Materials Engineering and Performance</i> , 2011 , 20, 941-946	1.6	38
366	Four-dimensional patient dose reconstruction for scanned ion beam therapy of moving liver tumors. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014 , 89, 175-81	4	37
365	The Wear Behaviour of Composite Materials with Epoxy Matrix Filled with Hard Powder. <i>Applied Composite Materials</i> , 2001 , 8, 179-189	2	37
364	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	2.9	37
363	A breathing thorax phantom with independently programmable 6D tumour motion for dosimetric measurements in radiation therapy. <i>Physics in Medicine and Biology</i> , 2012 , 57, 2235-50	3.8	36
362	A DNA double-strand break kinetic rejoining model based on the local effect model. <i>Radiation Research</i> , 2013 , 180, 524-38	3.1	36
361	Accelerator-based tests of radiation shielding properties of materials used in human space infrastructures. <i>Health Physics</i> , 2008 , 94, 242-7	2.3	36

360	A 4D-optimization concept for scanned ion beam therapy. <i>Radiotherapy and Oncology</i> , 2013 , 109, 419-24	5.3	35
359	Inactivation of individual mammalian cells by single alpha-particles. <i>International Journal of Radiation Biology</i> , 1997 , 72, 397-407	2.9	35
358	APPA at FAIR: From fundamental to applied research. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015 , 365, 680-685	1.2	34
357	Influence of acute hypoxia and radiation quality on cell survival. <i>Journal of Radiation Research</i> , 2013 , 54 Suppl 1, i23-30	2.4	34
356	Atrioventricular node ablation in Langendorff-perfused porcine hearts using carbon ion particle therapy: methods and an in vivo feasibility investigation for catheter-free ablation of cardiac arrhythmias. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2015 , 8, 429-38	6.4	33
355	Dose-response of initial G2-chromatid breaks induced in normal human fibroblasts by heavy ions. <i>International Journal of Radiation Biology</i> , 2001 , 77, 165-74	2.9	33
354	Model-based approach for quantitative estimates of skin, heart, and lung toxicity risk for left-side photon and proton irradiation after breast-conserving surgery. <i>Acta Oncologica</i> , 2017 , 56, 730-736	3.2	32
353	Clinical Indications for Carbon Ion Radiotherapy. <i>Clinical Oncology</i> , 2018 , 30, 317-329	2.8	32
352	DNA double strand breaks and chromosomal aberrations. <i>Cytogenetic and Genome Research</i> , 2010 , 128, 8-16	1.9	32
351	Truly incomplete and complex exchanges in prematurely condensed chromosomes of human fibroblasts exposed in vitro to energetic heavy ions. <i>Radiation Research</i> , 2003 , 160, 418-24	3.1	32
350	Biological dosimetry in Russian and Italian astronauts. <i>Advances in Space Research</i> , 2003 , 31, 1495-503	2.4	32
349	A New Standard DNA Damage (SDD) Data Format. <i>Radiation Research</i> , 2019 , 191, 76-92	3.1	32
348	Influence of chronic hypoxia and radiation quality on cell survival. <i>Journal of Radiation Research</i> , 2013 , 54 Suppl 1, i13-22	2.4	31
347	Chromosomes lacking telomeres are present in the progeny of human lymphocytes exposed to heavy ions. <i>Radiation Research</i> , 2006 , 165, 51-8	3.1	31
346	Harnessing radiation to improve immunotherapy: better with particles?. <i>British Journal of Radiology</i> , 2020 , 93, 20190224	3.4	31
345	Characterization of the secondary neutron field produced during treatment of an anthropomorphic phantom with x-rays, protons and carbon ions. <i>Physics in Medicine and Biology</i> , 2014 , 59, 2111-25	3.8	30
344	Dosimetric precision of an ion beam tracking system. <i>Radiation Oncology</i> , 2010 , 5, 61	4.2	30
343	Research plans in Europe for radiation health hazard assessment in exploratory space missions. <i>Life Sciences in Space Research</i> , 2019 , 21, 73-82	2.4	28

342	The FIRST experiment at GSI. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2012 , 678, 130-138	1.2	28
341	Negative and positive incremental forming: Comparison by geometrical, experimental, and FEM considerations. <i>Materials and Manufacturing Processes</i> , 2017 , 32, 530-536	4.1	28
340	The link between cell-cycle dependent radiosensitivity and repair pathways: a model based on the local, sister-chromatid conformation dependent switch between NHEJ and HR. <i>DNA Repair</i> , 2015 , 27, 28-39	4.3	28
339	Experimental verification of a real-time compensation functionality for dose changes due to target motion in scanned particle therapy. <i>Medical Physics</i> , 2011 , 38, 5448-58	4.4	28
338	Radiation-induced chromosomal instability in human mammary epithelial cells. <i>Advances in Space Research</i> , 1996 , 18, 99-108	2.4	28
337	Applied nuclear physics at the new high-energy particle accelerator facilities. <i>Physics Reports</i> , 2019 , 800, 1-37	27.7	27
336	Relative biological effectiveness of carbon ions for tumor control, acute skin damage and late radiation-induced fibrosis in a mouse model. <i>Acta Oncologica</i> , 2015 , 54, 1623-30	3.2	27
335	Particle therapy in Europe. <i>Molecular Oncology</i> , 2020 , 14, 1492-1499	7.9	27
334	Proton beam characterization in the experimental room of the Trento Proton Therapy facility. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2017 , 869, 15-20	1.2	27
333	Microdosimetry measurements characterizing the radiation fields of 300 MeV/u 12C and 185 MeV/u 7Li pencil beams stopping in water. <i>Physics in Medicine and Biology</i> , 2010 , 55, 3441-9	3.8	27
332	Chromosomal aberrations in peripheral blood lymphocytes of prostate cancer patients treated with IMRT and carbon ions. <i>Radiotherapy and Oncology</i> , 2010 , 95, 73-8	5.3	27
331	ATM alters the otherwise robust chromatin mobility at sites of DNA double-strand breaks (DSBs) in human cells. <i>PLoS ONE</i> , 2014 , 9, e92640	3.7	27
330	TRAX-CHEM: A pre-chemical and chemical stage extension of the particle track structure code TRAX in water targets. <i>Chemical Physics Letters</i> , 2018 , 698, 11-18	2.5	26
329	Residual motion mitigation in scanned carbon ion beam therapy of liver tumors using enlarged pencil beam overlap. <i>Radiotherapy and Oncology</i> , 2014 , 113, 290-5	5.3	26
328	Ion beam tracking using ultrasound motion detection. <i>Medical Physics</i> , 2014 , 41, 041708	4.4	26
327	4D in-beam positron emission tomography for verification of motion-compensated ion beam therapy. <i>Medical Physics</i> , 2009 , 36, 4230-43	4.4	26
326	Complex chromosomal rearrangements induced in vivo by heavy ions. <i>Cytogenetic and Genome Research</i> , 2004 , 104, 240-4	1.9	26
325	G2 chromatid damage and repair kinetics in normal human fibroblast cells exposed to low- or high-LET radiation. <i>Cytogenetic and Genome Research</i> , 2004 , 104, 211-5	1.9	26

324	Inactivation of C3H 10T1/2 cells by monoenergetic high LET alpha-particles. <i>International Journal of Radiation Biology</i> , 1992 , 61, 813-20	2.9	26
323	Sensitivity analysis of the relative biological effectiveness predicted by the local effect model. <i>Physics in Medicine and Biology</i> , 2013 , 58, 6827-49	3.8	25
322	Complex exchanges are responsible for the increased effectiveness of C-ions compared to X-rays at the first post-irradiation mitosis. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2010 , 701, 52-9	3	25
321	Space radiation does not induce a significant increase of intrachromosomal exchanges in astronauts' lymphocytes. <i>Radiation and Environmental Biophysics</i> , 2005 , 44, 219-24	2	25
320	Chromosome damage induced by high-LET alpha-particles in plateau-phase C3H 10T1/2 cells. <i>International Journal of Radiation Biology</i> , 1992 , 62, 571-80	2.9	25
319	Induction and Processing of the Radiation-Induced Gamma-H2AX Signal and Its Link to the Underlying Pattern of DSB: A Combined Experimental and Modelling Study. <i>PLoS ONE</i> , 2015 , 10, e0129416	3.7	25
318	Fragmentation of 120 and 200 MeV uHe ions in water and PMMA targets. <i>Physics in Medicine and Biology</i> , 2017 , 62, 1310-1326	3.8	24
317	Overview of recent advances in treatment planning for ion beam radiotherapy. <i>European Physical Journal D</i> , 2014 , 68, 1	1.3	24
316	Overcoming resistance of cancer stem cells. <i>Lancet Oncology, The</i> , 2012 , 13, e187-8	21.7	24
315	Spatiotemporal dynamics of early DNA damage response proteins on complex DNA lesions. <i>PLoS ONE</i> , 2013 , 8, e57953	3.7	24
314	Reduction of Lung Metastases in a Mouse Osteosarcoma Model Treated With Carbon Ions and Immune Checkpoint Inhibitors. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021 , 109, 594-602	4	24
313	Spatial Dose Patterns Associated With Radiation Pneumonitis in a Randomized Trial Comparing Intensity-Modulated Photon Therapy With Passive Scattering Proton Therapy for Locally Advanced Non-Small Cell Lung Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2019 , 104, 1124-1132	4	23
312	Out-of-field dose studies with an anthropomorphic phantom: comparison of X-rays and particle therapy treatments. <i>Radiotherapy and Oncology</i> , 2012 , 105, 133-8	5.3	23
311	Simultaneous exposure of mammalian cells to heavy ions and X-rays. <i>Advances in Space Research</i> , 2002 , 30, 877-84	2.4	23
310	Measurements of the equivalent whole-body dose during radiation therapy by cytogenetic methods. <i>Physics in Medicine and Biology</i> , 1999 , 44, 1289-98	3.8	23
309	Rejoining and Misrejoining of Radiation-Induced Chromatin Breaks. I. Experiments with Human Lymphocytes. <i>Radiation Research</i> , 1996 , 145, 274	3.1	23
308	Treatment Planning Studies in Patient Data With Scanned Carbon Ion Beams for Catheter-Free Ablation of Atrial Fibrillation. <i>Journal of Cardiovascular Electrophysiology</i> , 2016 , 27, 335-44	2.7	23
307	RBE of ion beams in hypofractionated radiotherapy (SBRT). <i>Physica Medica</i> , 2014 , 30, 588-91	2.7	22

306	Influence of nuclear geometry on the formation of genetic rearrangements in human cells. <i>Radiation Research</i> , 2010 , 174, 20-6	3.1	22
305	Response of human hematopoietic stem and progenitor cells to energetic carbon ions. <i>International Journal of Radiation Biology</i> , 2009 , 85, 1051-9	2.9	22
304	Kill painting of hypoxic tumors with multiple ion beams. <i>Physics in Medicine and Biology</i> , 2019 , 64, 045008	3.8	22
303	Radiogenomics. <i>Medical Physics</i> , 2018 , 45, e11111-e1122	4.4	22
302	Modeling Combined Chemotherapy and Particle Therapy for Locally Advanced Pancreatic Cancer. <i>Frontiers in Oncology</i> , 2015 , 5, 145	5.3	21
301	In vivo and in vitro measurements of complex-type chromosomal exchanges induced by heavy ions. <i>Advances in Space Research</i> , 2003 , 31, 1525-35	2.4	21
300	Biodosimetry of Ionizing Radiation by Selective Painting of Prematurely Condensed Chromosomes in Human Lymphocytes. <i>Radiation Research</i> , 1997 , 148, S45	3.1	20
299	Chromosome aberrations of clonal origin are present in astronauts' blood lymphocytes. <i>Cytogenetic and Genome Research</i> , 2004 , 104, 245-51	1.9	20
298	Influence of the shielding on the induction of chromosomal aberrations in human lymphocytes exposed to high-energy iron ions. <i>Journal of Radiation Research</i> , 2002 , 43 Suppl, S107-11	2.4	20
297	Depleted uranium residual radiological risk assessment for Kosovo sites. <i>Journal of Environmental Radioactivity</i> , 2003 , 64, 237-45	2.4	20
296	Fragmentation studies of relativistic iron ions using plastic nuclear track detectors. <i>Advances in Space Research</i> , 2005 , 35, 230-5	2.4	20
295	Biological Dosimetry by Interphase Chromosome Painting. <i>Radiation Research</i> , 1996 , 145, 53	3.1	20
294	Direct measurement of the 3-dimensional DNA lesion distribution induced by energetic charged particles in a mouse model tissue. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 12396-401	11.5	19
293	The effect of track structure on the induction of chromosomal aberrations in murine cells. <i>International Journal of Radiation Biology</i> , 1998 , 73, 253-62	2.9	19
292	High LET-induced H2AX phosphorylation around the Bragg curve. <i>Advances in Space Research</i> , 2005 , 35, 236-42	2.4	19
291	Hibernation and Radioprotection: Gene Expression in the Liver and Testicle of Rats Irradiated under Synthetic Torpor. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	18
290	Biological Cardiac Tissue Effects of High-Energy Heavy Ions - Investigation for Myocardial Ablation. <i>Scientific Reports</i> , 2019 , 9, 5000	4.9	18
289	Impact of Target Oxygenation on the Chemical Track Evolution of Ion and Electron Radiation. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	18

288	Comparative Risk Predictions of Second Cancers After Carbon-Ion Therapy Versus Proton Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2016 , 95, 279-286	4	18
287	Elevation of tribological properties of alloy Ti 6% Al 4% V upon formation of a rutile layer on the surface. <i>Metal Science and Heat Treatment</i> , 2013 , 54, 662-666	0.6	18
286	Light flashes in cancer patients treated with heavy ions. <i>Brain Stimulation</i> , 2013 , 6, 416-7	5.1	18
285	Multigating, a 4D optimized beam tracking in scanned ion beam therapy. <i>Technology in Cancer Research and Treatment</i> , 2014 , 13, 497-504	2.7	18
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