Marco Durante

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.

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	Particle radiotherapy and molecular therapies: mechanisms and strategies towards clinical applications.. *Expert Reviews in Molecular Medicine*, **2022**, 24, e8	6.7	1
448	A 3D Agent-Based Model of Lung Fibrosis. *Symmetry*, **2022**, 14, 90	2.7	1
447	Dose Limits and Countermeasures for Mitigating Radiation Risk in Moon and Mars Exploration **2022** , 4, 172-184	2.1	1
446	Experimental Comparison of Fiducial Markers Used in Proton Therapy: Study of Different Imaging Modalities and Proton Fluence Perturbations Measured With CMOS Pixel Sensors.. *Frontiers in Oncology*, **2022**, 12, 830080	5.3	0
445	Quantification of biological range uncertainties in patients treated at the Krakow proton therapy centre.. *Radiation Oncology*, **2022**, 17, 50	4.2	0
444	A predictive biophysical model of the combined action of radiotherapy and immunotherapy in cancer.. *International Journal of Radiation Oncology Biology Physics*, **2022**,	4	2
443	Thick shielding against galactic cosmic radiation: A Monte Carlo study with focus on the role of secondary neutrons.. *Life Sciences in Space Research*, **2022**, 33, 58-68	2.4	0
442	A multi-detector experimental setup for the study of space radiation shielding materials: Measurement of secondary radiation behind thick shielding and assessment of its radiobiological effect. *EPJ Web of Conferences*, **2022**, 261, 03002	0.3	1
441	FLASH with carbon ions: tumor control, normal tissue sparing, and distal metastasis in a mouse osteosarcoma model.. *Radiotherapy and Oncology*, **2022**,	5.3	6
440	A Combination of Cabozantinib and Radiation Does Not Lead to an Improved Growth Control of Tumors in a Preclinical 4T1 Breast Cancer Model.. *Frontiers in Oncology*, **2021**, 11, 788182	5.3	1
439	Ultra-high dose rate (FLASH) carbon ion irradiation: dosimetry and first cell experiments. *International Journal of Radiation Oncology Biology Physics*, **2021**,	4	5
438	Compensating for beam modulation due to microscopic lung heterogeneities in carbon ion therapy treatment planning. *Medical Physics*, **2021**, 48, 8052	4.4	0
437	A facility for the research, development, and translation of advanced technologies for ion-beam therapies. *Journal of Instrumentation*, **2021**, 16, T03004	1	3
436	Failla Memorial Lecture: The Many Facets of Heavy-Ion Science. *Radiation Research*, **2021**, 195, 403-411	3.1	2
435	A Modular System for Treating Moving Anatomical Targets With Scanned Ion Beams at Multiple Facilities: Pre-Clinical Testing for Quality and Safety of Beam Delivery. *Frontiers in Oncology*, **2021**, 11, 620388	5.3	4
434	Modeling Radioimmune Response-Current Status and Perspectives. *Frontiers in Oncology*, **2021**, 11, 647273	5.3	6
433	In Reply to Elmali et al. *International Journal of Radiation Oncology Biology Physics*, **2021**, 109, 1658-1659	4	

432	Physical characterization ofHe ion beams for radiotherapy and comparison withHe. *Physics in Medicine and Biology*, **2021**, 66,	3.8	6
431	A bespoke health risk assessment methodology for the radiation protection of astronauts. *Radiation and Environmental Biophysics*, **2021**, 60, 213-231	2	4
430	Charge identification of nuclear fragments with the FOOT Time-Of-Flight system. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2021**, 1001, 165206	1.2	2
429	Monte Carlo simulations and dose measurements of 2D range-modulators for scanned particle therapy. *Zeitschrift Fur Medizinische Physik*, **2021**, 31, 203-214	7.6	6
428	South East European International Institute for Sustainable Technologies (SEEIIST). *Frontiers in Physics*, **2021**, 8,	3.9	3
427	Charge identification of fragments with the emulsion spectrometer of the FOOT experiment. *Open Physics*, **2021**, 19, 383-394	1.3	0
426	Monte Carlo Simulation of SARS-CoV-2 Radiation-Induced Inactivation for Vaccine Development. *Radiation Research*, **2021**, 195, 221-229	3.1	6
425	Reduction of Lung Metastases in a Mouse Osteosarcoma Model Treated With Carbon Ions and Immune Checkpoint Inhibitors. *International Journal of Radiation Oncology Biology Physics*, **2021**, 109, 594-602	4	24
424	Probing thoracic dose patterns associated to pericardial effusion and mortality in patients treated with photons and protons for locally advanced non-small-cell lung cancer. *Radiotherapy and Oncology*, **2021**, 160, 148-158	5.3	5
423	What can space radiation protection learn from radiation oncology?. *Life Sciences in Space Research*, **2021**, 30, 82-95	2.4	2
422	Enhancing the understanding of fragmentation processes in hadrontherapy and radioprotection in space with the FOOT experiment. *Physica Scripta*, **2021**, 96, 114013	2.6	1
421	FLASH radiotherapy with carbon ion beams. *Medical Physics*, **2021**,	4.4	8
420	Radioactive Beams for Image-Guided Particle Therapy: The BARB Experiment at GSI. *Frontiers in Oncology*, **2021**, 11, 737050	5.3	2
419	May oxygen depletion explain the FLASH effect? A chemical track structure analysis. *Radiotherapy and Oncology*, **2021**, 162, 68-75	5.3	17
418	A Human 3D Cardiomyocyte Risk Model to Study the Cardiotoxic Influence of X-rays and Other Noxae in Adults. *Cells*, **2021**, 10,	7.9	1
417	Response to "Comment on: May oxygen depletion explain the FLASH effect? A chemical track structure analysis". *Radiotherapy and Oncology*, **2021**, 163, 237-239	5.3	1
416	Physics and biomedical challenges of cancer therapy with accelerated heavy ions. *Nature Reviews Physics*, **2021**, 3, 777-790	23.6	11
415	Study of relationship between dose, LET and the risk of brain necrosis after proton therapy for skull base tumors. *Radiotherapy and Oncology*, **2021**, 163, 143-149	5.3	0

414	Response of the Mimosa-28 pixel sensor to a wide range of ion species and energies. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2021**, 1017, 165807	1.2	1
413	Mapping the Future of Particle Radiobiology in Europe: The INSPIRE Project. *Frontiers in Physics*, **2020**, 8,	3.9	2
412	Solving the Issue of Ionizing Radiation Induced Neurotoxicity by Using Novel Cell Models and State of the Art Accelerator Facilities. *Frontiers in Physics*, **2020**, 8,	3.9	2
411	Microdosimetric measurements as a tool to assess potential in-field and out-of-field toxicity regions in proton therapy. *Physics in Medicine and Biology*, **2020**, 65, 245024	3.8	5
410	Particle therapy in Europe. *Molecular Oncology*, **2020**, 14, 1492-1499	7.9	27
409	An innovative manufacturing method of aluminum foam sandwiches using a mesh-grid reinforcement as mold. *International Journal of Advanced Manufacturing Technology*, **2020**, 107, 3039-3048	3.2	3
408	Fluence perturbation from fiducial markers due to edge-scattering measured with pixel sensors for C ion beams. *Physics in Medicine and Biology*, **2020**, 65, 085005	3.8	4
407	Systematic quantification of nanoscopic dose enhancement of gold nanoparticles in ion beams. *Physics in Medicine and Biology*, **2020**, 65, 075008	3.8	6
406	Measurement of 12C Fragmentation Cross Sections on C, O, and H in the Energy Range of Interest for Particle Therapy Applications. *IEEE Transactions on Radiation and Plasma Medical Sciences*, **2020**, 4, 269-282	4.2	3
405	Impact of Target Oxygenation on the Chemical Track Evolution of Ion and Electron Radiation. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	18
404	Characterization of the Secondary Neutron Field Produced in a Thick Aluminum Shield by 1 GeV/u 56Fe Ions Using TLD-Based Ambient Dosimeters. *Frontiers in Physics*, **2020**, 8,	3.9	3
403	Differential Repair Protein Recruitment at Sites of Clustered and Isolated DNA Double-Strand Breaks Produced by High-Energy Heavy Ions. *Scientific Reports*, **2020**, 10, 1443	4.9	18
402	Robust treatment planning with 4D intensity modulated carbon ion therapy for multiple targets in stage IV non-small cell lung cancer. *Physics in Medicine and Biology*, **2020**, 65, 215012	3.8	8
401	On the bending behaviour and the failure mechanisms of grid-reinforced aluminium foam cylinders by using an experimental/numerical approach. *International Journal of Advanced Manufacturing Technology*, **2020**, 106, 1683-1693	3.2	5
400	Modelling the risk of radiation induced alopecia in brain tumor patients treated with scanned proton beams. *Radiotherapy and Oncology*, **2020**, 144, 127-134	5.3	16
399	Technical note: Vendor-agnostic water phantom for 3D dosimetry of complex fields in particle therapy. *Journal of Applied Clinical Medical Physics*, **2020**, 21, 227-232	2.3	3
398	Virus Irradiation and COVID-19 Disease. *Frontiers in Physics*, **2020**, 8,	3.9	4
397	Biomedical Research Programs at Present and Future High-Energy Particle Accelerators. *Frontiers in Physics*, **2020**, 8, 00380	3.9	4

396	A modular dose delivery system for treating moving targets with scanned ion beams: Performance and safety characteristics, and preliminary tests. *Physica Medica*, **2020**, 76, 307-316	2.7	6
395	Carbon Ion Radiobiology. *Cancers*, **2020**, 12,	6.6	42
394	Hybrid Active-Passive Space Radiation Simulation Concept for GSI and the Future FAIR Facility. *Frontiers in Physics*, **2020**, 8,	3.9	6
393	Radioactive Beams in Particle Therapy: Past, Present, and Future. *Frontiers in Physics*, **2020**, 8, 00326	3.9	9
392	Beam Monitor Calibration for Radiobiological Experiments With Scanned High Energy Heavy Ion Beams at FAIR. *Frontiers in Physics*, **2020**, 8,	3.9	9
391	Are Further Cross Section Measurements Necessary for Space Radiation Protection or Ion Therapy Applications? Helium Projectiles. *Frontiers in Physics*, **2020**, 8,	3.9	6
390	Tumor Hypoxia and Circulating Tumor Cells. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	3
389	Harnessing radiation to improve immunotherapy: better with particles?. *British Journal of Radiology* , **2020**, 93, 20190224	3.4	31
388	NTCP Models for Severe Radiation Induced Dermatitis After IMRT or Proton Therapy for Thoracic Cancer Patients. *Frontiers in Oncology*, **2020**, 10, 344	5.3	8
387	The Biophysics Collaboration for research at FAIR and other new accelerator facilities. *Europhysics News*, **2019**, 50, 27-30	0.2	2
386	Hibernation and Radioprotection: Gene Expression in the Liver and Testicle of Rats Irradiated under Synthetic Torpor. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	18
385	Research plans in Europe for radiation health hazard assessment in exploratory space missions. *Life Sciences in Space Research*, **2019**, 21, 73-82	2.4	28
384	Biological Cardiac Tissue Effects of High-Energy Heavy Ions - Investigation for Myocardial Ablation. *Scientific Reports*, **2019**, 9, 5000	4.9	18
383	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. *International Journal of Radiation Oncology Biology Physics*, **2019**, 104, 1124-1132	4	23
382	Applied nuclear physics at the new high-energy particle accelerator facilities. *Physics Reports*, **2019**, 800, 1-37	27.7	27
381	A new facility for proton radiobiology at the Trento proton therapy centre: Design and implementation. *Physica Medica*, **2019**, 58, 99-106	2.7	11
380	Production of GFRP air pipes using lightweight gypsum patterns removable in a recyclable way **2019**,		1
379	Single point incremental forming of cold-rolled polycarbonate sheets **2019**,		2

378	Localized heat assisted incremental forming of polycarbonate sheets by tool rotation **2019**,		4
377	FOOT: a new experiment to measure nuclear fragmentation at intermediate energies. *Perspectives in Science*, **2019**, 12, 100415	0.8	3
376	Charged particle beams to cure cancer: Strengths and challenges. *Seminars in Oncology*, **2019**, 46, 219-225	3.5	15
375	Measurement of PET isotope production cross sections for protons and carbon ions on carbon and oxygen targets for applications in particle therapy range verification. *Physics in Medicine and Biology*, **2019**, 64, 205012	3.8	11
374	Ion charge separation with new generation of nuclear emulsion films. *Open Physics*, **2019**, 17, 233-240	1.3	7
373	Proton Therapy Treatment Plan Verification in CCB Krakow Using Fred Monte Carlo TPS Tool. *IFMBE Proceedings*, **2019**, 783-787	0.2	3
372	STUDY FOR A PASSIVE SCATTERING LINE DEDICATED TO RADIOBIOLOGY EXPERIMENTS AT THE TRENTO PROTON THERAPY CENTER. *Radiation Protection Dosimetry*, **2019**, 183, 274-279	0.9	1
371	All the fun of the FAIR: fundamental physics at the facility for antiproton and ion research. *Physica Scripta*, **2019**, 94, 033001	2.6	42
370	Kill painting of hypoxic tumors with multiple ion beams. *Physics in Medicine and Biology*, **2019**, 64, 045008	3.8	22
369	Report of a National Cancer Institute special panel: Characterization of the physical parameters of particle beams for biological research. *Medical Physics*, **2019**, 46, e37-e52	4.4	11
368	Development and characterization of a E-TOF detector prototype for the FOOT experiment. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2019**, 916, 116-124	1.2	8
367	Experimental Assessment of Lithium Hydride's Space Radiation Shielding Performance and Monte Carlo Benchmarking. *Radiation Research*, **2019**, 191, 154-161	3.1	9
366	A New Standard DNA Damage (SDD) Data Format. *Radiation Research*, **2019**, 191, 76-92	3.1	32
365	TRAX-CHEM: A pre-chemical and chemical stage extension of the particle track structure code TRAX in water targets. *Chemical Physics Letters*, **2018**, 698, 11-18	2.5	26
364	Modeling Radiation Effects of Ultrasoft X Rays on the Basis of Amorphous Track Structure. *Radiation Research*, **2018**, 189, 32-43	3.1	4
363	Heavy Charged Particles: Does Improved Precision and Higher Biological Effectiveness Translate to Better Outcome in Patients?. *Seminars in Radiation Oncology*, **2018**, 28, 160-167	5.5	38
362	Comments on 'Comments on "Modeling Cell Survival after Photon Irradiation Based on Double-Strand Break Clustering in Megabase Pair Chromatin Loops" by Thomas Friedrich, Marco Durante and Michael Scholz (Radiat Res 2012; 178:385-94)'. *Radiation Research*, **2018**, 189, 549	3.1	
361	Characterizing the Potency and Impact of Carbon Ion Therapy in a Primary Mouse Model of Soft Tissue Sarcoma. *Molecular Cancer Therapeutics*, **2018**, 17, 858-868	6.1	17

360	Clinical Indications for Carbon Ion Radiotherapy. *Clinical Oncology*, **2018**, 30, 317-329	2.8	32
359	Heart in space: effect of the extraterrestrial environment on the cardiovascular system. *Nature Reviews Cardiology*, **2018**, 15, 167-180	14.8	89
358	Radiation-Induced Chromosomal Aberrations and Immunotherapy: Micronuclei, Cytosolic DNA, and Interferon-Production Pathway. *Frontiers in Oncology*, **2018**, 8, 192	5.3	58
357	Faster and safer? FLASH ultra-high dose rate in radiotherapy. *British Journal of Radiology*, **2018**, 91, 20170628	3.4	81
356	Combining Heavy-Ion Therapy with Immunotherapy: An Update on Recent Developments. *International Journal of Particle Therapy*, **2018**, 5, 84-93	1.5	13
355	Hemp reinforcement in lightweight geopolymers. *Journal of Composite Materials*, **2018**, 52, 2313-2320	2.7	10
354	Treatment planning with intensity modulated particle therapy for multiple targets in stage IV non-small cell lung cancer. *Physics in Medicine and Biology*, **2018**, 63, 025034	3.8	3
353	Accelerator-Based Tests of Shielding Effectiveness of Different Materials and Multilayers using High-Energy Light and Heavy Ions. *Radiation Research*, **2018**, 190, 526-537	3.1	13
352	Radiogenomics. *Medical Physics*, **2018**, 45, e1111-e1122	4.4	22
351	216. Biological treatment planning with multiple ion beams. *Physica Medica*, **2018**, 56, 193-194	2.7	
350	Advances in Radiation Biology of Particle Irradiation. *Progress in Tumor Research*, **2018**, 105-121		0
349	Radiation quality and intra-chromosomal aberrations: Size matters. *Mutation Research - Genetic Toxicology and Environmental Mutagenesis*, **2018**, 836, 28-35	3	8
348	Deposition of aluminum coatings on bio-composite laminates **2018**,		6
347	Improvement of the mechanical properties of reinforced aluminum foam samples **2018**,		6
346	Fragmentation of 120 and 200 MeV uHe ions in water and PMMA targets. *Physics in Medicine and Biology*, **2017**, 62, 1310-1326	3.8	24
345	Model-based approach for quantitative estimates of skin, heart, and lung toxicity risk for left-side photon and proton irradiation after breast-conserving surgery. *Acta Oncologica*, **2017**, 56, 730-736	3.2	32
344	A descriptive and broadly applicable model of therapeutic and stray absorbed dose from 6 to 25 MV photon beams. *Medical Physics*, **2017**, 44, 3805-3814	4.4	10
343	Benchmarking Geant4 hadronic models for prompt-γ monitoring in carbon ion therapy. *Medical Physics*, **2017**, 44, 4276-4286	4.4	8

342	Identification of the elementary structural units of the DNA damage response. *Nature Communications*, **2017**, 8, 15760	17.4	94
341	Charged-particle therapy in cancer: clinical uses and future perspectives. *Nature Reviews Clinical Oncology*, **2017**, 14, 483-495	19.4	213
340	Ionizing Radiation Alters Human Embryonic Stem Cell Properties and Differentiation Capacity by Diminishing the Expression of Activin Receptors. *Stem Cells and Development*, **2017**, 26, 341-352	4.4	11
339	Addendum: Measurement of charged particle yields from PMMA irradiated by a 220 MeV/u 12C beam. *Physics in Medicine and Biology*, **2017**,	3.8	5
338	Oxygen beams for therapy: advanced biological treatment planning and experimental verification. *Physics in Medicine and Biology*, **2017**, 62, 7798-7813	3.8	40
337	ECG-based 4D-dose reconstruction of cardiac arrhythmia ablation with carbon ion beams: application in a porcine model. *Physics in Medicine and Biology*, **2017**, 62, 6869-6883	3.8	12
336	Proton beam characterization in the experimental room of the Trento Proton Therapy facility. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2017**, 869, 15-20	1.2	27
335	The influence of thermal oxidation and tool-sheet contact conditions on the formability and the surface quality of incrementally formed grade 1 titanium thin sheets. *International Journal of Advanced Manufacturing Technology*, **2017**, 93, 3723-3732	3.2	8
334	Immobilization for carbon ion beam ablation of cardiac structures in a porcine model. *Physica Medica*, **2017**, 43, 134-139	2.7	3
333	Lightweight bio-composites based on hemp fibres produced by conventional and unconventional processes **2017**,		2
332	Negative and positive incremental forming: Comparison by geometrical, experimental, and FEM considerations. *Materials and Manufacturing Processes*, **2017**, 32, 530-536	4.1	28
331	Differential Impact of Single-Dose Fe Ion and X-Ray Irradiation on Endothelial Cell Transcriptomic and Proteomic Responses. *Frontiers in Pharmacology*, **2017**, 8, 570	5.6	14
330	The Immunoregulatory Potential of Particle Radiation in Cancer Therapy. *Frontiers in Immunology*, **2017**, 8, 99	8.4	39
329	Measuring Leukocyte Adhesion to (Primary) Endothelial Cells after Photon and Charged Particle Exposure with a Dedicated Laminar Flow Chamber. *Frontiers in Immunology*, **2017**, 8, 627	8.4	8
328	Generating and grading the abscopal effect: proposal for comprehensive evaluation of combination immunoradiotherapy in mouse models. *Translational Cancer Research*, **2017**, 6, S892-S899	0.3	5
327	Measurement of secondary particle production induced by particle therapy ion beams impinging on a PMMA target. *EPJ Web of Conferences*, **2016**, 117, 05007	0.3	2
326	In silico comparison of photons versus carbon ions in single fraction therapy of lung cancer. *Physica Medica*, **2016**, 32, 1118-23	2.7	12
325	Heavy Ions in Cancer Therapy. *JAMA Oncology*, **2016**, 2, 1539-1540	13.4	41

324	Nuclear physics in particle therapy: a review. *Reports on Progress in Physics*, **2016**, 79, 096702	14.4	143
323	Measurement of fragmentation cross sections of C12 ions on a thin gold target with the FIRST apparatus. *Physical Review C*, **2016**, 93,	2.7	16
322	Innovative core material produced by infusion process using hemp fibres **2016**,		5
321	Helium ions for radiotherapy? Physical and biological verifications of a novel treatment modality. *Medical Physics*, **2016**, 43, 1995	4.4	68
320	Clinical Evidence and Radiobiological Background of Particle Radiation Therapy. *Current Clinical Pathology*, **2016**, 63-85	0.1	
319	Helium and Oxygen beam models in TRiP98: implementation, treatment planning tests and experimental verification. *Radiotherapy and Oncology*, **2016**, 118, S96	5.3	
318	Impact of fractionation and number of fields on dose homogeneity for intra-fractionally moving lung tumors using scanned carbon ion treatment. *Radiotherapy and Oncology*, **2016**, 118, 498-503	5.3	7
317	The relevance of DNA damage clustering on the nanometer and micrometer scale for the quantitative prediction of radiation effects. *Radiotherapy and Oncology*, **2016**, 118, S95-S96	5.3	
316	Scanned ion beam therapy for prostate carcinoma: Comparison of single plan treatment and daily plan-adapted treatment. *Strahlentherapie Und Onkologie*, **2016**, 192, 118-26	4.3	8
315	Comparative Risk Predictions of Second Cancers After Carbon-Ion Therapy Versus Proton Therapy. *International Journal of Radiation Oncology Biology Physics*, **2016**, 95, 279-286	4	18
314	Galactic cosmic ray simulation at the NASA Space Radiation Laboratory. *Life Sciences in Space Research*, **2016**, 8, 38-51	2.4	78
313	Ionizing Radiation Impacts on Cardiac Differentiation of Mouse Embryonic Stem Cells. *Stem Cells and Development*, **2016**, 25, 178-88	4.4	6
312	New Ions for Therapy. *International Journal of Particle Therapy*, **2016**, 2, 428-438	1.5	69
311	The Influence of C-Ions and X-rays on Human Umbilical Vein Endothelial Cells. *Frontiers in Oncology*, **2016**, 6, 5	5.3	16
310	Efficient Rejoining of DNA Double-Strand Breaks despite Increased Cell-Killing Effectiveness following Spread-Out Bragg Peak Carbon-Ion Irradiation. *Frontiers in Oncology*, **2016**, 6, 28	5.3	17
309	The Effect of X-Ray and Heavy Ions Radiations on Chemotherapy Refractory Tumor Cells. *Frontiers in Oncology*, **2016**, 6, 64	5.3	4
308	Response to "Comment on 'Helium ions for radiotherapy? Physical and biological verifications of a novel treatment modality' " [Med. Phys. 43, 1995-2004 (2016)]. *Medical Physics*, **2016**, 43, 5262	4.4	
307	Treatment Planning Studies in Patient Data With Scanned Carbon Ion Beams for Catheter-Free Ablation of Atrial Fibrillation. *Journal of Cardiovascular Electrophysiology*, **2016**, 27, 335-44	2.7	23

306	High-energy proton imaging for biomedical applications. *Scientific Reports*, **2016**, 6, 27651	4.9	18
305	Feasibility Study on Cardiac Arrhythmia Ablation Using High-Energy Heavy Ion Beams. *Scientific Reports*, **2016**, 6, 38895	4.9	67
304	Response to the "Letter to the Editor" by K. H. Chadwick on our Article "A Comparison of Kinetic Photon Cell Survival Models". *Radiation Research*, **2016**, 185, 440-1	3.1	
303	Does Heavy Ion Therapy Work Through the Immune System?. *International Journal of Radiation Oncology Biology Physics*, **2016**, 96, 934-936	4	49
302	Hibernation for space travel: Impact on radioprotection. *Life Sciences in Space Research*, **2016**, 11, 1-9	2.4	44
301	Proton radiobiology. *Cancers*, **2015**, 7, 353-81	6.6	153
300	Assessment of potential advantages of relevant ions for particle therapy: a model based study. *Medical Physics*, **2015**, 42, 1037-47	4.4	56
299	Simulation of DSB yield for high LET radiation. *Radiation Protection Dosimetry*, **2015**, 166, 61-5	0.9	14
298	Comments on the paper "Modelling of cell killing due to sparsely ionizing radiation in normoxic and hypoxic conditions and an extension to high LET radiation" by A. Mairani et al., Int. J. Radiat. Biol. 89(10), 2013, 782-793. *International Journal of Radiation Biology*, **2015**, 91, 127-8	2.9	1
297	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. *Circulation: Arrhythmia and Electrophysiology*, **2015**, 8, 429-38	6.4	33
296	New Insight into Quantitative Modeling of DNA Double-Strand Break Rejoining. *Radiation Research*, **2015**, 184, 280-95	3.1	4
295	A Comparison of Kinetic Photon Cell Survival Models. *Radiation Research*, **2015**, 184, 494-508	3.1	3
294	Relative biological effectiveness of carbon ions for tumor control, acute skin damage and late radiation-induced fibrosis in a mouse model. *Acta Oncologica*, **2015**, 54, 1623-30	3.2	27
293	Direct measurement of the 3-dimensional DNA lesion distribution induced by energetic charged particles in a mouse model tissue. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 12396-401	11.5	19
292	Application of the local effect model to predict DNA double-strand break rejoining after photon and high-LET irradiation. *Radiation Protection Dosimetry*, **2015**, 166, 66-70	0.9	7
291	APPA at FAIR: From fundamental to applied research. *Nuclear Instruments & Methods in Physics Research B*, **2015**, 365, 680-685	1.2	34
290	Kill-painting of hypoxic tumours in charged particle therapy. *Scientific Reports*, **2015**, 5, 17016	4.9	87
289	Measurement of charged particle yields from therapeutic beams in view of the design of an innovative hadrontherapy dose monitor. *Journal of Instrumentation*, **2015**, 10, C02032-C02032	1	2

288	Upgrading the GSI beamline microscope with a confocal fluorescence lifetime scanner to monitor charged particle induced chromatin decondensation in living cells. *Nuclear Instruments & Methods in Physics Research B*, **2015**, 365, 626-630	1.2	5
287	Integration of a model-independent interface for RBE predictions in a treatment planning system for active particle beam scanning. *Physics in Medicine and Biology*, **2015**, 60, 6811-31	3.8	9
286	Modeling Combined Chemotherapy and Particle Therapy for Locally Advanced Pancreatic Cancer. *Frontiers in Oncology*, **2015**, 5, 145	5.3	21
285	DNA Damage Response Proteins and Oxygen Modulate Prostaglandin E2 Growth Factor Release in Response to Low and High LET Ionizing Radiation. *Frontiers in Oncology*, **2015**, 5, 260	5.3	13
284	Treatment Parameters Optimization to Compensate for Interfractional Anatomy Variability and Intrafractional Tumor Motion. *Frontiers in Oncology*, **2015**, 5, 291	5.3	6
283	Treatment of arrhythmias by external charged particle beams: a Langendorff feasibility study. *Biomedizinische Technik*, **2015**, 60, 147-56	1.3	10
282	Transmission of clonal chromosomal abnormalities in human hematopoietic stem and progenitor cells surviving radiation exposure. *Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis*, **2015**, 777, 43-51	3.3	11
281	Implementation of an analytical model for leakage neutron equivalent dose in a proton radiotherapy planning system. *Cancers*, **2015**, 7, 427-38	6.6	11
280	Sensitivity of the Giant LOop Binary LEsion (GLOBLE) cell survival model on parameters characterising dose rate effects. *Radiation Protection Dosimetry*, **2015**, 166, 56-60	0.9	2
279	Experimental setup for radon exposure and first diffusion studies using gamma spectroscopy. *Nuclear Instruments & Methods in Physics Research B*, **2015**, 362, 187-193	1.2	6
278	Towards Proton Therapy and Radiography at FAIR. *Journal of Physics: Conference Series*, **2015**, 599, 012041	0.3	4
277	TLD efficiency calculations for heavy ions: an analytical approach. *European Physical Journal D*, **2015**, 69, 1	1.3	4
276	Prompt-γ production of 220 MeV/u12C ions interacting with a PMMA target. *Journal of Instrumentation*, **2015**, 10, P10034-P10034	1	12
275	Carbon ion radiotherapy in Japan: an assessment of 20 years of clinical experience. *Lancet Oncology, The*, **2015**, 16, e93-e100	21.7	322
274	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. *DNA Repair*, **2015**, 27, 28-39	4.3	28
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