Marco Durante

List of Publications by Year in descending order

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471 papers	16,574 citations	20817 60 h-index	27406 106 g-index
477 all docs	477 docs citations	477 times ranked	9653 citing authors

#	Article	IF	Citations
1	FLASH radiotherapy with carbon ion beams. Medical Physics, 2022, 49, 1974-1992.	3.0	43
2	Ultra-High Dose Rate (FLASH) Carbon Ion Irradiation:ÂDosimetry and First Cell Experiments. International Journal of Radiation Oncology Biology Physics, 2022, 112, 1012-1022.	0.8	39
3	Particle radiotherapy and molecular therapies: mechanisms and strategies towards clinical applications. Expert Reviews in Molecular Medicine, 2022, 24, e8.	3.9	12
4	A 3D Agent-Based Model of Lung Fibrosis. Symmetry, 2022, 14, 90.	2.2	5
5	Dose Limits and Countermeasures for Mitigating Radiation Risk in Moon and Mars Exploration. Physics, 2022, 4, 172-184.	1.4	5
6	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.	2.8	2
7	Quantification of biological range uncertainties in patients treated at the Krakow proton therapy centre. Radiation Oncology, 2022, 17, 50.	2.7	1
8	Roadmap: helium ion therapy. Physics in Medicine and Biology, 2022, 67, 15TR02.	3.0	24
9	A Predictive Biophysical Model of the Combined Action of Radiation Therapy and Immunotherapy of Cancer. International Journal of Radiation Oncology Biology Physics, 2022, 113, 872-884.	0.8	6
10	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.	2.3	16
11	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	6
12	FLASH with carbon ions: Tumor control, normal tissue sparing, and distal metastasis in a mouse osteosarcoma model. Radiotherapy and Oncology, 2022, 175, 185-190.	0.6	36
13	Monte Carlo simulations and dose measurements of 2D range-modulators for scanned particle therapy. Zeitschrift Fur Medizinische Physik, 2021, 31, 203-214.	1.5	16
14	South East European International Institute for Sustainable Technologies (SEEIIST). Frontiers in Physics, 2021, 8, .	2.1	6
15	Charge identification of fragments with the emulsion spectrometer of the FOOT experiment. Open Physics, 2021, 19, 383-394.	1.7	6
16	Monte Carlo Simulation of SARS-CoV-2 Radiation-Induced Inactivation for Vaccine Development. Radiation Research, 2021, 195, 221-229.	1.5	10
17	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.	0.8	48
18	A facility for the research, development, and translation of advanced technologies for ion-beam therapies. Journal of Instrumentation, 2021, 16, T03004.	1.2	7

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19	Failla Memorial Lecture: The Many Facets of Heavy-Ion Science. Radiation Research, 2021, 195, 403-411.	1.5	3
20	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.	2.8	4
21	Modeling Radioimmune Responseâ€"Current Status and Perspectives. Frontiers in Oncology, 2021, 11, 647272.	2.8	10
22	In Reply to Elmali et al. International Journal of Radiation Oncology Biology Physics, 2021, 109, 1658-1659.	0.8	0
23	Physical characterization of ³He ion beams for radiotherapy and comparison with ⁴He. Physics in Medicine and Biology, 2021, 66, 095009.	3.0	14
24	A bespoke health risk assessment methodology for the radiation protection of astronauts. Radiation and Environmental Biophysics, 2021, 60, 213-231.	1.4	16
25	O-GlcNAcylation Affects the Pathway Choice of DNA Double-Strand Break Repair. International Journal of Molecular Sciences, 2021, 22, 5715.	4.1	7
26	Editorial: Applied Nuclear Physics at Accelerators. Frontiers in Physics, 2021, 9, .	2.1	1
27	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.	1.6	4
28	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.	0.6	12
29	What can space radiation protection learn from radiation oncology?. Life Sciences in Space Research, 2021, 30, 82-95.	2.3	8
30	Enhancing the understanding of fragmentation processes in hadrontherapy and radioprotection in space with the FOOT experiment. Physica Scripta, 2021, 96, 114013.	2.5	1
31	Radioactive Beams for Image-Guided Particle Therapy: The BARB Experiment at GSI. Frontiers in Oncology, 2021, 11, 737050.	2.8	16
32	May oxygen depletion explain the FLASH effect? A chemical track structure analysis. Radiotherapy and Oncology, 2021, 162, 68-75.	0.6	62
33	Total nuclear reaction cross-section database for radiation protection in space and heavy-ion therapy applications. New Journal of Physics, 2021, 23, 101201.	2.9	16
34	Interaction of therapeutic ¹²C ions with bone-like targets: physical characterization and dosimetric effect at material interfaces. Physics in Medicine and Biology, 2021, 66, 185003.	3.0	1
35	A Human 3D Cardiomyocyte Risk Model to Study the Cardiotoxic Influence of X-rays and Other Noxae in Adults. Cells, 2021, 10, 2608.	4.1	6
36	Response to â€œComment on: May oxygen depletion explain the FLASH effect? A chemical track structure analysisâ€• Radiotherapy and Oncology, 2021, 163, 237-239.	0.6	3

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37	Physics and biomedical challenges of cancer therapy with accelerated heavy ions. Nature Reviews Physics, 2021, 3, 777-790.	26.6	47
38	Biological Impact of Target Fragments on Proton Treatment Plans: An Analysis Based on the Current Cross-Section Data and a Full Mixed Field Approach. Cancers, 2021, 13, 4768.	3.7	5
39	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.	0.6	16
40	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.	1.6	3
41	Compensating for beam modulation due to microscopic lung heterogeneities in carbon ion therapy treatment planning. Medical Physics, 2021, 48, 8052-8061.	3.0	2
42	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.	2.8	4
43	Harnessing radiation to improve immunotherapy: better with particles?. British Journal of Radiology, 2020, 93, 20190224.	2.2	53
44	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.	3.0	9
45	Modelling the risk of radiation induced alopecia in brain tumor patients treated with scanned proton beams. Radiotherapy and Oncology, 2020, 144, 127-134.	0.6	23
46	Technical note: Vendorâ€agnostic water phantom for 3D dosimetry of complex fields in particle therapy. Journal of Applied Clinical Medical Physics, 2020, 21, 227-232.	1.9	7
47	Virus Irradiation and COVID-19 Disease. Frontiers in Physics, 2020, 8, .	2.1	16
48	Biomedical Research Programs at Present and Future High-Energy Particle Accelerators. Frontiers in Physics, 2020, 8, 00380.	2.1	8
49	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.	0.7	12
50	Carbon Ion Radiobiology. Cancers, 2020, 12, 3022.	3.7	104
51	Hybrid Active-Passive Space Radiation Simulation Concept for GSI and the Future FAIR Facility. Frontiers in Physics, 2020, 8, .	2.1	16
52	Radioactive Beams in Particle Therapy: Past, Present, and Future. Frontiers in Physics, 2020, 8, 00326.	2.1	31
53	Beam Monitor Calibration for Radiobiological Experiments With Scanned High Energy Heavy Ion Beams at FAIR. Frontiers in Physics, 2020, 8, .	2.1	19
54	Are Further Cross Section Measurements Necessary for Space Radiation Protection or Ion Therapy Applications? Helium Projectiles. Frontiers in Physics, 2020, 8, .	2.1	18

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55	Tumor Hypoxia and Circulating Tumor Cells. International Journal of Molecular Sciences, 2020, 21, 9592.	4.1	17
56	Mapping the Future of Particle Radiobiology in Europe: The INSPIRE Project. Frontiers in Physics, 2020, 8, .	2.1	9
57	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, .	2.1	4
58	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.	3.0	14
59	Particle therapy in Europe. Molecular Oncology, 2020, 14, 1492-1499.	4.6	50
60	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.	3.0	11
61	Fluence perturbation from fiducial markers due to edge-scattering measured with pixel sensors for ¹²C ion beams. Physics in Medicine and Biology, 2020, 65, 085005.	3.0	5
62	Systematic quantification of nanoscopic dose enhancement of gold nanoparticles in ion beams. Physics in Medicine and Biology, 2020, 65, 075008.	3.0	8
63	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.	3.7	5
64	Impact of Target Oxygenation on the Chemical Track Evolution of Ion and Electron Radiation. International Journal of Molecular Sciences, 2020, 21, 424.	4.1	44
65	NTCP Models for Severe Radiation Induced Dermatitis After IMRT or Proton Therapy for Thoracic Cancer Patients. Frontiers in Oncology, 2020, 10, 344.	2.8	22
66	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.	3.3	28
67	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.	3.0	19
68	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, .	2.1	9
69	Flexible die as reinforcement for aluminum foam samples. AIP Conference Proceedings, 2019, , .	0.4	0
70	Production of GFRP air pipes using lightweight gypsum patterns removable in a recyclable way. AIP Conference Proceedings, 2019, , .	0.4	1
71	Single point incremental forming of cold-rolled polycarbonate sheets. AIP Conference Proceedings, 2019, , .	0.4	2
72	Localized heat assisted incremental forming of polycarbonate sheets by tool rotation. AIP Conference Proceedings, 2019, , .	0.4	4

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73	FOOT: a new experiment to measure nuclear fragmentation at intermediate energies. Perspectives in Science, 2019, 12, 100415.	0.6	6
74	Charged particle beams to cure cancer: Strengths and challenges. Seminars in Oncology, 2019, 46, 219-225.	2.2	27
75	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.	3.0	21
76	Ion charge separation with new generation of nuclear emulsion films. Open Physics, 2019, 17, 233-240.	1.7	9
77	The Biophysics Collaboration for research at FAIR and other new accelerator facilities. Europhysics News, 2019, 50, 27-30.	0.3	2
78	Hibernation and Radioprotection: Gene Expression in the Liver and Testicle of Rats Irradiated under Synthetic Torpor. International Journal of Molecular Sciences, 2019, 20, 352.	4.1	26
79	Research plans in Europe for radiation health hazard assessment in exploratory space missions. Life Sciences in Space Research, 2019, 21, 73-82.	2.3	47
80	Biological Cardiac Tissue Effects of High-Energy Heavy Ions â€“ Investigation for Myocardial Ablation. Scientific Reports, 2019, 9, 5000.	3.3	24
81	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.	0.8	37
82	Applied nuclear physics at the new high-energy particle accelerator facilities. Physics Reports, 2019, 800, 1-37.	25.6	46
83	A new facility for proton radiobiology at the Trento proton therapy centre: Design and implementation. Physica Medica, 2019, 58, 99-106.	0.7	25
84	STUDY FOR A PASSIVE SCATTERING LINE DEDICATED TO RADIOBIOLOGY EXPERIMENTS AT THE TRENTO PROTON THERAPY CENTER. Radiation Protection Dosimetry, 2019, 183, 274-279.	0.8	2
85	All the fun of the FAIR: fundamental physics at the facility for antiproton and ion research. Physica Scripta, 2019, 94, 033001.	2.5	79
86	Kill painting of hypoxic tumors with multiple ion beams. Physics in Medicine and Biology, 2019, 64, 045008.	3.0	37
87	Proton beam therapy in Europe: more centres need more research. British Journal of Cancer, 2019, 120, 777-778.	6.4	34
88	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.	3.0	15
89	Development and characterization of aî"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.	1.6	8
90	Faster and safer? FLASH ultra-high dose rate in radiotherapy. British Journal of Radiology, 2018, 91, 20170628.	2.2	132

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91	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.	2.6	36
92	Modeling Radiation Effects of Ultrasoft X Rays on the Basis of Amorphous Track Structure. Radiation Research, 2018, 189, 32-43.	1.5	7
93	Heavy Charged Particles: Does Improved Precision and Higher Biological Effectiveness Translate to Better Outcome in Patients?. Seminars in Radiation Oncology, 2018, 28, 160-167.	2.2	49
94	Comments on â€˜Comments on â€œModeling Cell Survival after Photon Irradiation Based on Double-Strand Break Clustering in Megabase Pair Chromatin Loopsâ€•by Thomas Friedrich, Marco Durante and Michael Scholz (Radiat Res 2012; 178:385â€“94)â€™. Radiation Research, 2018, 189, 549-549.	1.5	0
95	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.	4.1	25
96	Clinical Indications for Carbon Ion Radiotherapy. Clinical Oncology, 2018, 30, 317-329.	1.4	55
97	Heart in space: effect of the extraterrestrial environment on the cardiovascular system. Nature Reviews Cardiology, 2018, 15, 167-180.	13.7	161
98	Hemp reinforcement in lightweight geopolymers. Journal of Composite Materials, 2018, 52, 2313-2320.	2.4	18
99	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.	3.0	6
100	Experimental Assessment of Lithium Hydride's Space Radiation Shielding Performance and Monte Carlo Benchmarking. Radiation Research, 2018, 191, 154.	1.5	17
101	Accelerator-Based Tests of Shielding Effectiveness of Different Materials and Multilayers using High-Energy Light and Heavy Ions. Radiation Research, 2018, 190, 526.	1.5	24
102	A New Standard DNA Damage (SDD) Data Format. Radiation Research, 2018, 191, 76.	1.5	49
103	Radiogenomics. Medical Physics, 2018, 45, e1111-e1122.	3.0	37
104	216. Biological treatment planning with multiple ion beams. Physica Medica, 2018, 56, 193-194.	0.7	0
105	Advances in Radiation Biology of Particle Irradiation. Progress in Tumor Research, 2018, , 105-121.	0.1	1
106	Radiation quality and intra-chromosomal aberrations: Size matters. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2018, 836, 28-35.	1.7	14
107	Deposition of aluminum coatings on bio-composite laminates. AIP Conference Proceedings, 2018, , .	0.4	7
108	Improvement of the mechanical properties of reinforced aluminum foam samples. AIP Conference Proceedings, 2018, , .	0.4	10

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109	Radiation-Induced Chromosomal Aberrations and Immunotherapy: Micronuclei, Cytosolic DNA, and Interferon-Production Pathway. Frontiers in Oncology, 2018, 8, 192.	2.8	96
110	Combining Heavy-Ion Therapy with Immunotherapy: An Update on Recent Developments. International Journal of Particle Therapy, 2018, 5, 84-93.	1.8	22
111	Fragmentation of 120 and 200 MeV u^{â^'1}⁴He ions in water and PMMA targets. Physics in Medicine and Biology, 2017, 62, 1310-1326.	3.0	29
112	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 OncolÃ³gica, 2017, 56, 730-736.	1.8	37
113	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.	3.0	14
114	Benchmarking Geant4 hadronic models for promptâ€•Î³ monitoring in carbon ionÂtherapy. Medical Physics, 2017, 44, 4276-4286.	3.0	10
115	Identification of the elementary structural units of the DNA damage response. Nature Communications, 2017, 8, 15760.	12.8	141
116	Charged-particle therapy in cancer: clinical uses and future perspectives. Nature Reviews Clinical Oncology, 2017, 14, 483-495.	27.6	317
117	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.	2.1	12
118	Oxygen beams for therapy: advanced biological treatment planning and experimental verification. Physics in Medicine and Biology, 2017, 62, 7798-7813.	3.0	59
119	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.	3.0	14
120	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.	1.6	49
121	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.	3.0	11
122	Immobilization for carbon ion beam ablation of cardiac structures in a porcine model. Physica Medica, 2017, 43, 134-139.	0.7	4
123	Lightweight bio-composites based on hemp fibres produced by conventional and unconventional processes. AIP Conference Proceedings, 2017, , .	0.4	2
124	Negative and positive incremental forming: Comparison by geometrical, experimental, and FEM considerations. Materials and Manufacturing Processes, 2017, 32, 530-536.	4.7	30
125	Fabrication and mechanical characterization of hybrid metal foam/bio-composite samples. AIP Conference Proceedings, 2017, , .	0.4	0
126	Differential Impact of Single-Dose Fe Ion and X-Ray Irradiation on Endothelial Cell Transcriptomic and Proteomic Responses. Frontiers in Pharmacology, 2017, 8, 570.	3.5	18

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127	The Immunoregulatory Potential of Particle Radiation in Cancer Therapy. Frontiers in Immunology, 2017, 8, 99.	4.8	52
128	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.	4.8	14
129	Editorial: Charged Particles in Oncology. Frontiers in Oncology, 2017, 7, 301.	2.8	7
130	Addendum: Measurement of charged particle yields from PMMA irradiated by a 220 MeV/u ¹²C beam. Physics in Medicine and Biology, 2017, 62, 8483-8494.	3.0	5
131	Generating and grading the abscopal effect: proposal for comprehensive evaluation of combination immunoradiotherapy in mouse models. Translational Cancer Research, 2017, 6, S892-S899.	1.0	6
132	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	3
133	Exposure to Carbon Ions Triggers Proinflammatory Signals and Changes in Homeostasis and Epidermal Tissue Organization to a Similar Extent as Photons. Frontiers in Oncology, 2016, 5, 294.	2.8	13
134	The Influence of C-Ions and X-rays on Human Umbilical Vein Endothelial Cells. Frontiers in Oncology, 2016, 6, 5.	2.8	20
135	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.	2.8	20
136	The Effect of X-Ray and Heavy Ions Radiations on Chemotherapy Refractory Tumor Cells. Frontiers in Oncology, 2016, 6, 64.	2.8	4
137	Response to â€œComment on â€˜Helium ions for radiotherapy? Physical and biological verifications of a novel treatment modalityâ€™ â€•[Med. Phys. 43, 1995â€“2004 (2016)]. Medical Physics, 2016, 43, 5262-5262.	3.0	0
138	Treatment Planning Studies in Patient Data With Scanned Carbon Ion Beams for Catheterâ€Free Ablation of Atrial Fibrillation. Journal of Cardiovascular Electrophysiology, 2016, 27, 335-344.	1.7	25
139	High-energy proton imaging for biomedical applications. Scientific Reports, 2016, 6, 27651.	3.3	25
140	Feasibility Study on Cardiac Arrhythmia Ablation Using High-Energy Heavy Ion Beams. Scientific Reports, 2016, 6, 38895.	3.3	92
141	On the performances and wear of WC-diamond like carbon coated tools in drilling of CFRP/Titanium stacks. AIP Conference Proceedings, 2016, , .	0.4	0
142	Response to the â€œLetter to the Editorâ€•by K. H. Chadwick on our Article â€œA Comparison of Kinetic Photon Cell Survival Modelsâ€• Radiation Research, 2016, 185, 440-441.	1.5	0
143	Does Heavy Ion Therapy Work Through the Immune System?. International Journal of Radiation Oncology Biology Physics, 2016, 96, 934-936.	0.8	60
144	Hibernation for space travel: Impact on radioprotection. Life Sciences in Space Research, 2016, 11, 1-9.	2.3	57

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145	In silico comparison of photons versus carbon ions in single fraction therapy of lung cancer. Physica Medica, 2016, 32, 1118-1123.	0.7	14
146	Heavy Ions in Cancer Therapy. JAMA Oncology, 2016, 2, 1539.	7.1	62
147	Nuclear physics in particle therapy: a review. Reports on Progress in Physics, 2016, 79, 096702.	20.1	217
148	Measurement of fragmentation cross sections ofC12ions on a thin gold target with the FIRST apparatus. Physical Review C, 2016, 93, .	2.9	20
149	Innovative core material produced by infusion process using hemp fibres. AIP Conference Proceedings, 2016, , .	0.4	5
150	Helium ions for radiotherapy? Physical and biological verifications of a novel treatment modality. Medical Physics, 2016, 43, 1995-2004.	3.0	87
151	Clinical Evidence and Radiobiological Background of Particle Radiation Therapy. Current Clinical Pathology, 2016, , 63-85.	0.0	0
152	Helium and Oxygen beam models in TRiP98: implementation, treatment planning tests and experimental verification. Radiotherapy and Oncology, 2016, 118, S96.	0.6	2
153	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.	0.6	9
154	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.	0.6	0
155	Scanned ion beam therapy for prostate carcinoma. Strahlentherapie Und Onkologie, 2016, 192, 118-126.	2.0	10
156	Comparative Risk Predictions of Second Cancers After Carbon-Ion Therapy Versus Proton Therapy. International Journal of Radiation Oncology Biology Physics, 2016, 95, 279-286.	0.8	25
157	Galactic cosmic ray simulation at the NASA Space Radiation Laboratory. Life Sciences in Space Research, 2016, 8, 38-51.	2.3	112
158	Ionizing Radiation Impacts on Cardiac Differentiation of Mouse Embryonic Stem Cells. Stem Cells and Development, 2016, 25, 178-188.	2.1	6
159	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.	0.8	9
160	APPA at FAIR: From fundamental to applied research. Nuclear Instruments & Methods in Physics Research B, 2015, 365, 680-685.	1.4	41
161	Kill-painting of hypoxic tumours in charged particle therapy. Scientific Reports, 2015, 5, 17016.	3.3	124
162	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	5

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163	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.	1.4	7
164	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, 6811-6831.	3.0	9
165	Modeling Combined Chemotherapy and Particle Therapy for Locally Advanced Pancreatic Cancer. Frontiers in Oncology, 2015, 5, 145.	2.8	23
166	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.	2.8	17
167	Treatment Parameters Optimization to Compensate for Interfractional Anatomy Variability and Intrafractional Tumor Motion. Frontiers in Oncology, 2015, 5, 291.	2.8	6
168	Treatment of arrhythmias by external charged particle beams: a Langendorff feasibility study. Biomedizinische Technik, 2015, 60, 147-56.	0.8	13
169	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.	1.0	14
170	Implementation of an Analytical Model for Leakage Neutron Equivalent Dose in a Proton Radiotherapy Planning System. Cancers, 2015, 7, 427-438.	3.7	14
171	Sensitivity of the Giant LOop Binary LEsion (GLOBLE) cell survival model on parameters characterising dose rate effects. Radiation Protection Dosimetry, 2015, 166, 56-60.	0.8	2
172	Experimental setup for radon exposure and first diffusion studies using gamma spectroscopy. Nuclear Instruments & Methods in Physics Research B, 2015, 362, 187-193.	1.4	13
173	Towards Proton Therapy and Radiography at FAIR. Journal of Physics: Conference Series, 2015, 599, 012041.	0.4	5
174	TLD efficiency calculations for heavy ions: an analytical approach. European Physical Journal D, 2015, 69, 1.	1.3	6
175	Prompt-Î³ production of 220 MeV/u¹²C ions interacting with a PMMA target. Journal of Instrumentation, 2015, 10, P10034-P10034.	1.2	14
176	Carbon ion radiotherapy in Japan: an assessment of 20 years of clinical experience. Lancet Oncology, The, 2015, 16, e93-e100.	10.7	423
177	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.	2.8	37
178	Increased effectiveness of carbon ions in the production of reactive oxygen species in normal human fibroblasts. Journal of Radiation Research, 2015, 56, 67-76.	1.6	15
179	Proton Radiobiology. Cancers, 2015, 7, 353-381.	3.7	198
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