

Marco Pinto

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.

37
papers

525
citations

13
h-index

22
g-index

45
ext. papers

653
ext. citations

3.1
avg, IF

3.22
L-index

#	Paper	IF	Citations
37	Animal tissue-based quantitative comparison of dual-energy CT to SPR conversion methods using high-resolution gel dosimetry. <i>Physics in Medicine and Biology</i> , 2021 , 66,	3.8	3
36	The impact of path estimates in iterative ion CT reconstructions for clinical-like cases. <i>Physics in Medicine and Biology</i> , 2021 , 66,	3.8	2
35	Accounting for prompt gamma emission and detection for range verification in proton therapy treatment planning. <i>Physics in Medicine and Biology</i> , 2021 , 66, 055005	3.8	1
34	A new treatment planning approach accounting for prompt gamma range verification and interfractional anatomical changes. <i>Physics in Medicine and Biology</i> , 2020 , 65, 095005	3.8	3
33	A filtering approach for PET and PG predictions in a proton treatment planning system. <i>Physics in Medicine and Biology</i> , 2020 , 65, 095014	3.8	5
32	Dose quantification in carbon ion therapy using in-beam positron emission tomography. <i>Physics in Medicine and Biology</i> , 2020 , 65, 235052	3.8	2
31	Beam characterization and feasibility study for a small animal irradiation platform at clinical proton therapy facilities. <i>Physics in Medicine and Biology</i> , 2020 , 65, 245045	3.8	2
30	Optimization and performance study of a proton CT system for pre-clinical small animal imaging. <i>Physics in Medicine and Biology</i> , 2020 , 65, 155008	3.8	2
29	Comparative study of alternative Geant4 hadronic ion inelastic physics models for prediction of positron-emitting radionuclide production in carbon and oxygen ion therapy. <i>Physics in Medicine and Biology</i> , 2019 , 64, 155014	3.8	5
28	Prediction of positron emitter distributions for range monitoring in carbon ion therapy: an analytical approach. <i>Physics in Medicine and Biology</i> , 2019 , 64, 105022	3.8	4
27	Towards a novel small animal proton irradiation platform: the SIRMIO project. <i>Acta Oncologica</i> , 2019 , 58, 1470-1475	3.2	8
26	CBCT correction using a cycle-consistent generative adversarial network and unpaired training to enable photon and proton dose calculation. <i>Physics in Medicine and Biology</i> , 2019 , 64, 225004	3.8	31
25	Dose reconstruction from PET images in carbon ion therapy: a deconvolution approach. <i>Physics in Medicine and Biology</i> , 2019 , 64, 025011	3.8	16
24	Full Monte Carlo-Based Biologic Treatment Plan Optimization System for Intensity Modulated Carbon Ion Therapy on Graphics Processing Unit. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018 , 100, 235-243	4	8
23	Toward a new treatment planning approach accounting for in vivo proton range verification. <i>Physics in Medicine and Biology</i> , 2018 , 63, 215025	3.8	11
22	Initial development of goCMC: a GPU-oriented fast cross-platform Monte Carlo engine for carbon ion therapy. <i>Physics in Medicine and Biology</i> , 2017 , 62, 3682-3699	3.8	14
21	A cost-effective monitoring technique in particle therapy via uncollimated prompt gamma peak integration. <i>Applied Physics Letters</i> , 2017 , 110, 154102	3.4	30

20	SU-C-BRC-06: OpenCL-Based Cross-Platform Monte Carlo Simulation Package for Carbon Ion Therapy. <i>Medical Physics</i> , 2016 , 43, 3318-3318	4.4	1
19	Assessment of Geant4 Prompt-Gamma Emission Yields in the Context of Proton Therapy Monitoring. <i>Frontiers in Oncology</i> , 2016 , 6, 10	5.3	15
18	Development of a Compton camera for medical applications based on silicon strip and scintillation detectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2015 , 787, 98-101	1.2	66
17	Collimated prompt gamma TOF measurements with multi-slit multi-detector configurations. <i>Journal of Instrumentation</i> , 2015 , 10, P01011-P01011	1	23
16	Technical Note: Experimental carbon ion range verification in inhomogeneous phantoms using prompt gammas. <i>Medical Physics</i> , 2015 , 42, 2342-6	4.4	13
15	Monte Carlo simulation of prompt γ -ray emission in proton therapy using a specific track length estimator. <i>Physics in Medicine and Biology</i> , 2015 , 60, 8067-86	3.8	6
14	Absolute prompt-gamma yield measurements for ion beam therapy monitoring. <i>Physics in Medicine and Biology</i> , 2015 , 60, 565-94	3.8	37
13	SU-E-T-499: Initial Developments of An OpenCL-Based Cross-Platform Monte Carlo Dose Engine for Carbon Ion Therapy. <i>Medical Physics</i> , 2015 , 42, 3449-3449	4.4	1
12	Real-time proton beam range monitoring by means of prompt-gamma detection with a collimated camera. <i>Physics in Medicine and Biology</i> , 2014 , 59, 1327-38	3.8	46
11	Assessment and improvements of Geant4 hadronic models in the context of prompt-gamma hadrontherapy monitoring. <i>Physics in Medicine and Biology</i> , 2014 , 59, 1747-72	3.8	29
10	Design optimisation of a TOF-based collimated camera prototype for online hadrontherapy monitoring. <i>Physics in Medicine and Biology</i> , 2014 , 59, 7653-74	3.8	52
9	Dose-Free Monitoring of Radiotherapy Treatments With Scattered Photons: First Experimental Results at a 6-MV Linac. <i>IEEE Transactions on Nuclear Science</i> , 2013 , 60, 3110-3118	1.7	2
8	Dose-Free Monitoring of Radiotherapy Treatments With Scattered Photons: Concept and Simulation Study. <i>IEEE Transactions on Nuclear Science</i> , 2013 , 60, 3119-3126	1.7	2
7	Real-time online monitoring of the ion range by means of prompt secondary radiations 2013 ,		2
6	Preliminary characterization of the external proton beam from a PET cyclotron for use in neutron and proton radiobiology and other dosimetric studies 2012 ,		4
5	Time-of-flight neutron rejection to improve prompt gamma imaging for proton range verification: a simulation study. <i>Physics in Medicine and Biology</i> , 2012 , 57, 6429-44	3.8	61
4	Optimization of collimator designs for real-time proton range verification by measuring prompt gamma rays 2012 ,		8
3	Range and density variations monitoring during proton therapy based on time-of-flight detection of prompt gamma radiation 2011 ,		1

2	Dose-free monitoring of radiotherapy treatments with scattered photons: Concept and simulation study 2011 ,	2
1	Radiobiology with cyclotron proton beams: A viability study 2010 ,	5