Marco Pinto

List of Publications by Year in descending order

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44	763	567144 15	552653 26
papers	citations	h-index	g-index

45	45	45	637
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Development of a Compton camera for medical applications based on silicon strip and scintillation detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 787, 98-101.	0.7	86
2	CBCT correction using a cycle-consistent generative adversarial network and unpaired training to enable photon and proton dose calculation. Physics in Medicine and Biology, 2019, 64, 225004.	1.6	79
3	Time-of-flight neutron rejection to improve prompt gamma imaging for proton range verification: a simulation study. Physics in Medicine and Biology, 2012, 57, 6429-6444.	1.6	70
4	Design optimisation of a TOF-based collimated camera prototype for online hadrontherapy monitoring. Physics in Medicine and Biology, 2014, 59, 7653-7674.	1.6	59
5	Real-time proton beam range monitoring by means of prompt-gamma detection with a collimated camera. Physics in Medicine and Biology, 2014, 59, 1327-1338.	1.6	54
6	Absolute prompt-gamma yield measurements for ion beam therapy monitoring. Physics in Medicine and Biology, 2015, 60, 565-594.	1.6	52
7	A cost-effective monitoring technique in particle therapy via uncollimated prompt gamma peak integration. Applied Physics Letters, 2017, 110, .	1.5	39
8	Assessment and improvements of Geant4 hadronic models in the context of prompt-gamma hadrontherapy monitoring. Physics in Medicine and Biology, 2014, 59, 1747-1772.	1.6	32
9	Collimated prompt gamma TOF measurements with multi-slit multi-detector configurations. Journal of Instrumentation, 2015, 10, P01011-P01011.	0.5	27
10	Towards a novel small animal proton irradiation platform: the SIRMIO project. Acta OncolÃ³gica, 2019, 58, 1470-1475.	0.8	27
11	Dose reconstruction from PET images in carbon ion therapy: a deconvolution approach. Physics in Medicine and Biology, 2019, 64, 025011.	1.6	22
12	Assessment of Geant4 Prompt-Gamma Emission Yields in the Context of Proton Therapy Monitoring. Frontiers in Oncology, 2016, 6, 10.	1.3	19
13	Initial development of goCMC: a GPU-oriented fast cross-platform Monte Carlo engine for carbon ion therapy. Physics in Medicine and Biology, 2017, 62, 3682-3699.	1.6	17
14	Toward a new treatment planning approach accounting for in vivo proton range verification. Physics in Medicine and Biology, 2018, 63, 215025.	1.6	16
15	Technical Note: Experimental carbon ion range verification in inhomogeneous phantoms using prompt gammas. Medical Physics, 2015, 42, 2342-2346.	1.6	15
16	Optimization and performance study of a proton CT system for pre-clinical small animal imaging. Physics in Medicine and Biology, 2020, 65, 155008.	1.6	14
17	Animal tissue-based quantitative comparison of dual-energy CT to SPR conversion methods using high-resolution gel dosimetry. Physics in Medicine and Biology, 2021, 66, 075009.	1.6	13
18	Dose-Free Monitoring of Radiotherapy Treatments With Scattered Photons: First Experimental Results at a 6-MV Linac. IEEE Transactions on Nuclear Science, 2013, 60, 3110-3118.	1.2	11

#	Article	IF	Citations
19	Optimization of collimator designs for real-time proton range verification by measuring prompt gamma rays. , 2012, , .		10
20	Full Monte Carloâ€“Based Biologic Treatment Plan Optimization System for Intensity Modulated Carbon Ion Therapy on Graphics Processing Unit. International Journal of Radiation Oncology Biology Physics, 2018, 100, 235-243.	0.4	10
21	Comparative study of alternative Geant4 hadronic ion inelastic physics models for prediction of positron-emitting radionuclide production in carbon and oxygen ion therapy. Physics in Medicine and Biology, 2019, 64, 155014.	1.6	10
22	Beam characterization and feasibility study for a small animal irradiation platform at clinical proton therapy facilities. Physics in Medicine and Biology, 2020, 65, 245045.	1.6	10
23	A filtering approach for PET and PG predictions in a proton treatment planning system. Physics in Medicine and Biology, 2020, 65, 095014.	1.6	8
24	Radiobiology with cyclotron proton beams: A viability study. , 2010, , .		7
25	Monte Carlo simulation of promptÎ³-ray emission in proton therapy using a specific track length estimator. Physics in Medicine and Biology, 2015, 60, 8067-8086.	1.6	7
26	Dose quantification in carbon ion therapy using in-beam positron emission tomography. Physics in Medicine and Biology, 2020, 65, 235052.	1.6	7
27	Preliminary characterization of the external proton beam from a PET cyclotron for use in neutron and proton radiobiology and other dosimetric studies. , 2012, , .		6
28	Dose-Free Monitoring of Radiotherapy Treatments With Scattered Photons: Concept and Simulation Study. IEEE Transactions on Nuclear Science, 2013, 60, 3119-3126.	1.2	6
29	Prediction of positron emitter distributions for range monitoring in carbon ion therapy: an analytical approach. Physics in Medicine and Biology, 2019, 64, 105022.	1.6	6
30	A new treatment planning approach accounting for prompt gamma range verification and interfractional anatomical changes. Physics in Medicine and Biology, 2020, 65, 095005.	1.6	5
31	The impact of path estimates in iterative ion CT reconstructions for clinical-like cases. Physics in Medicine and Biology, 2021, 66, 095007.	1.6	4
32	Dose-free monitoring of radiotherapy treatments with scattered photons: Concept and simulation study. , 2011, , .		3
33	Accounting for prompt gamma emission and detection for range verification in proton therapy treatment planning. Physics in Medicine and Biology, 2021, 66, 055005.	1.6	3
34	Real-time online monitoring of the ion range by means of prompt secondary radiations. , 2013, , .		2
35	A patient-specific hybrid phantom for calculating radiation dose and equivalent dose to the whole body. Physics in Medicine and Biology, 2022, 67, 035005.	1.6	2
36	Range and density variations monitoring during proton therapy based on time-of-flight detection of prompt gamma radiation. , 2011, , .		1

#	Article	IF	Citations
37	Dose-free monitoring of radiotherapy treatments with scattered photons: First experimental results at a 6-MV Linac. , 2011, , .		1
38	155 PROGRESS IN USING PROMPT GAMMAS FOR ION RANGE MONITORING DURING HADRON-THERAPY. Radiotherapy and Oncology, 2012, 102, S72.	0.3	1
39	SU-C-BRC-06: OpenCL-Based Cross-Platform Monte Carlo Simulation Package for Carbon Ion Therapy. Medical Physics, 2016, 43, 3318-3318.	1.6	1
40	SUâ€Eâ€Tâ€499: Initial Developments of An OpenCLâ€Based Crossâ€Platform Monte Carlo Dose Engine for Carbon Ion Therapy. Medical Physics, 2015, 42, 3449-3449.	1.6	1
41	Monte Carlo nuclear models evaluation and improvements for real-time prompt gamma ray monitoring in proton and carbon therapy. , 2012, , .		0
42	136 REAL-TIME MONITORING OF THE BRAGG PEAK DURING ION THERAPY: RECENT DEVELOPMENTS OF THE BEAM DETECTION SYSTEM. Radiotherapy and Oncology, 2012, 102, S60-S61.	0.3	0
43	148 REAL-TIME PROMPT GAMMA RAY MONITORING FOR PROTON AND CARBON THERAPY: MONTE CARLO NUCLEAR MODELS EVALUATION AND IMPROVEMENTS. Radiotherapy and Oncology, 2012, 102, S68-S69.	0.3	0
44	Absorbed energy monitoring during hadrontherapy via prompt gamma detection. , 2016, , .		0