

Ilaria Rinaldi

List of Publications by Year in descending order

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28
papers

566
citations

687363

13
h-index

677142

22
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all docs

28
docs citations

28
times ranked

636
citing authors

#	ARTICLE	IF	CITATIONS
1	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, 6429-6444.	3.0	70
2	Extension of TOPAS for the simulation of proton radiation effects considering molecular and cellular endpoints. <i>Physics in Medicine and Biology</i> , 2015, 60, 5053-5070.	3.0	56
3	Absolute prompt-gamma yield measurements for ion beam therapy monitoring. <i>Physics in Medicine and Biology</i> , 2015, 60, 565-594.	3.0	52
4	Experimental characterization of a prototype detector system for carbon ion radiography and tomography. <i>Physics in Medicine and Biology</i> , 2013, 58, 413-427.	3.0	49
5	Required transition from research to clinical application: Report on the 4D treatment planning workshops 2014 and 2015. <i>Physica Medica</i> , 2016, 32, 874-882.	0.7	34
6	Clinical implementations of 4D pencil beam scanned particle therapy: Report on the 4D treatment planning workshop 2016 and 2017. <i>Physica Medica</i> , 2018, 54, 121-130.	0.7	34
7	First in situ TOF-PET study using digital photon counters for proton range verification. <i>Physics in Medicine and Biology</i> , 2016, 61, 6203-6230.	3.0	32
8	A comprehensive theoretical comparison of proton imaging set-ups in terms of spatial resolution. <i>Physics in Medicine and Biology</i> , 2018, 63, 135013.	3.0	30
9	Experimental investigations on carbon ion scanning radiography using a range telescope. <i>Physics in Medicine and Biology</i> , 2014, 59, 3041-3057.	3.0	28
10	Collimated prompt gamma TOF measurements with multi-slit multi-detector configurations. <i>Journal of Instrumentation</i> , 2015, 10, P01011-P01011.	1.2	27
11	Regularised patient-specific stopping power calibration for proton therapy planning based on proton radiographic images. <i>Physics in Medicine and Biology</i> , 2019, 64, 065008.	3.0	25
12	An advanced image processing method to improve the spatial resolution of ion radiographies. <i>Physics in Medicine and Biology</i> , 2015, 60, 8525-8547.	3.0	24
13	Technical Note: Relative proton stopping power estimation from virtual monoenergetic images reconstructed from dual-layer computed tomography. <i>Medical Physics</i> , 2019, 46, 1821-1828.	3.0	16
14	Study of relationship between dose, LET and the risk of brain necrosis after proton therapy for skull base tumors. <i>Radiotherapy and Oncology</i> , 2021, 163, 143-149.	0.6	16
15	An integral test of FLUKA nuclear models with 160 MeV proton beams in multi-layer Faraday cups. <i>Physics in Medicine and Biology</i> , 2011, 56, 4001-4011.	3.0	13
16	Proton radiography with a commercial range telescope detector using dedicated post processing methods. <i>Physics in Medicine and Biology</i> , 2018, 63, 205016.	3.0	13
17	Study for online range monitoring with the interaction vertex imaging method. <i>Physics in Medicine and Biology</i> , 2017, 62, 9220-9239.	3.0	12
18	A method to increase the nominal range resolution of a stack of parallel-plate ionization chambers. <i>Physics in Medicine and Biology</i> , 2014, 59, 5501-5515.	3.0	9

#	ARTICLE	IF	CITATIONS
19	Effects of transverse heterogeneities on the most likely path of protons. Physics in Medicine and Biology, 2019, 64, 065003.	3.0	8
20	GPU-accelerated Monte Carlo Code for Fast Dose Recalculation in Proton Beam Therapy. Acta Physica Polonica B, 2017, 48, 1625.	0.8	7
21	Investigations on novel imaging techniques for ion beam therapy: Carbon ion radiography and tomography. , 2011, , .		2
22	Real-time online monitoring of the ion range by means of prompt secondary radiations. , 2013, , .		2
23	Projection-based deformable registration for tomographic imaging in ion beam therapy. , 2014, , .		2
24	High-Rate Capable Floating Strip Micromegas. Nuclear and Particle Physics Proceedings, 2016, 273-275, 1173-1179.	0.5	2
25	Range and density variations monitoring during proton therapy based on time-of-flight detection of prompt gamma radiation. , 2011, , .		1
26	On the role of ion-based imaging methods in modern ion beam therapy. , 2014, , .		1
27	Quantification of biological range uncertainties in patients treated at the Krakow proton therapy centre. Radiation Oncology, 2022, 17, 50.	2.7	1
28	WE-C-AUD B-09: Evaluation of Radiobiological Effects of Carbon Ion Beams: Mixed Particle Fields and Fragmentation. Medical Physics, 2008, 35, 2935-2935.	3.0	0