Giacomo Traini

List of Publications by Year
in descending order

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51 papers	457 citations	759055 12 h-index	839398 18 g-index
51 all docs	51 docs citations	51 times ranked	395 citing authors

#	Article	IF	Citations
1	Charge identification of fragments with the emulsion spectrometer of the FOOT experiment. Open Physics, 2021, 19, 383-394.	0.8	6
2	PAPRICA: The Pair Production Imaging Chamberâ€"Proof of Principle. Frontiers in Physics, 2021, 9, .	1.0	0
3	Performance Evaluation of the TOF-Wall Detector of the FOOT Experiment. IEEE Transactions on Nuclear Science, 2021, 68, 1161-1168.	1.2	3
4	Monitoring Carbon Ion Beams Transverse Position Detecting Charged Secondary Fragments: Results From Patient Treatment Performed at CNAO. Frontiers in Oncology, 2021, 11, 601784.	1.3	9
5	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.	0.7	4
6	Enhancing the understanding of fragmentation processes in hadrontherapy and radioprotection in space with the FOOT experiment. Physica Scripta, 2021, 96, 114013.	1.2	1
7	Detection of Interfractional Morphological Changes in Proton Therapy: A Simulation and In Vivo Study With the INSIDE In-Beam PET. Frontiers in Physics, 2021, 8, .	1.0	16
8	Charged particles and neutron trackers: Applications to particle therapy. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 954, 161229.	0.7	1
9	Development of a novel neutron tracker for the characterisation of secondary neutrons emitted in Particle Therapy. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 958, 162862.	0.7	7
10	Inter-fractional monitoring of ^{12}C ions treatments: results from a clinical trial at the CNAO facility. Scientific Reports, 2020, 10, 20735.	1.6	13
11	Radioguided surgery with Î²â^' radiation in pancreatic Neuroendocrine Tumors: a feasibility study. Scientific Reports, 2020, 10, 4015.	1.6	8
12	Tumor-non-tumor discrimination by a<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"><mml:mrow><mml:msup><mml:mrow><mml:mi>Î²</mml:mi></mml:mrow><mml:mrow><mml:mo>-</mml:mo></mm for Radio Guided Surgery on ex-vivo neuroendocrine tumors samples. Physica Medica, 2020, 72, 96-102.	0.4	10
13	FRED: a fast Monte Carlo code on GPU for quality control in Particle Therapy. Journal of Physics: Conference Series, 2020, 1548, 012020.	0.3	1
14	The MONDO Tracker: Characterisation and Study of Secondary Ultrafast Neutrons Production in Carbon Ion Radiotherapy. Frontiers in Physics, 2020, 8, .	1.0	0
15	Validation of Geant4 Nuclear Reaction Models for Hadron Therapy and Preliminary Results with BLOB. IFMBE Proceedings, 2019, , 675-685.	0.2	4
16	Radio-Guided Surgery with Î²â^' Radiation: Tests on Ex-Vivo Specimens. IFMBE Proceedings, 2019, , 693-697.	0.2	2
17	Secondary radiation measurements for particle therapy applications: Charged secondaries produced by 16O ion beams in a PMMA target at large angles. Physica Medica, 2019, 64, 45-53.	0.4	4
18	Ion charge separation with new generation of nuclear emulsion films. Open Physics, 2019, 17, 233-240.	0.8	9

#	Article	IF	Citations
19	A $16imes8$ Digital-SiPM Array With Distributed Trigger Generator for Low SNR Particle Tracking. IEEE Solid-State Circuits Letters, 2019, 2, 75-78.	1.3	5
20	Review and performance of the Dose Profiler, a particle therapy treatments online monitor. Physica Medica, 2019, 65, 84-93.	0.4	19
21	The <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mrow><mml:msup><mml:mrow><mml:mi>Î²</mml:mi></mml:mrow><mml:mrow><mml:mo>-</mml:mo></ radio-guided surgery: Method to estimate the minimum injectable activity from ex-vivo test. Physica Medica, 2019, 58, 114-120.	0.4	13
22	A 16 Ã— 8 Digital-SiPM Array With Distributed Trigger Generator for Low SNR Particle Tracking. , 2019, , .		0
23	Characterisation of a<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si4.svg"><mml:mrow><mml:mi>Î²</mml:mi></mml:mrow></mml:math>detector on positron emitters for medical applications. Physica Medica, 2019, 67, 85-90.	0.4	15
24	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.	0.7	8
25	The MONDO Detector Prototype Development and Test: Steps Toward an SPAD-CMOS-Based Integrated Readout (SBAM Sensor). IEEE Transactions on Nuclear Science, 2018, 65, 744-751.	1.2	5
26	Secondary radiation measurements for particle therapy applications: charged particles produced by⁴He and¹²C ion beams in a PMMA target at large angle. Physics in Medicine and Biology, 2018, 63, 055018.	1.6	16
27	MONDO: A tracker for the characterization of secondary fast and ultrafast neutrons emitted in particle therapy. Journal of Physics: Conference Series, 2018, 956, 012013.	0.3	0
28	Preliminary test of the MONDO project secondary fast and ultrafast neutrons tracker response using protons and MIP particles. Journal of Instrumentation, 2018, 13, C04014-C04014.	0.5	3
29	In-room performance evaluation of a novel online charged secondary particles monitor of light ions PT treatments. , 2018, , .		0
30	Characterisation of the MONDO detector response to neutrons by means of a FLUKA Monte Carlo simulation. Radiation Measurements, 2018, 119, 144-149.	0.7	4
31	Radioguided surgery with Î² radiation: a novel application with Ga68. Scientific Reports, 2018, 8, 16171.	1.6	28
32	Use of a CMOS image sensor for beta-emitting radionuclide measurements. Journal of Instrumentation, 2018, 13, P07003-P07003.	0.5	7
33	Position sensitive Î²^{â^'} detector based on p-terphenyl scintillator for medical applications. Journal of Instrumentation, 2018, 13, P07001-P07001.	0.5	1
34	Scintillating Fiber Devices for Particle Therapy Applications. IEEE Transactions on Nuclear Science, 2018, 65, 2054-2060.	1.2	1
35	Design of a tracking device for on-line dose monitoring in hadrontherapy. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 845, 679-683.	0.7	8
36	Intraoperative probe detecting Î²â^' decays in brain tumour radio-guided surgery. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 845, 689-692.	0.7	10

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37	Design of a new tracking device for on-line beam range monitor in carbon therapy. Physica Medica, 2017, 34, 18-27.	0.4	25
38	Secondary radiation measurements for particle therapy applications: nuclear fragmentation produced by⁴He ion beams in a PMMA target. Physics in Medicine and Biology, 2017, 62, 1291-1309.	1.6	23
39	Secondary radiation measurements for particle therapy applications: prompt photons produced by⁴He,¹²C and¹⁶O ion beams in a PMMA target. Physics in Medicine and Biology, 2017, 62, 1438-1455.	1.6	30
40	Benchmarking Geant4 hadronic models for promptâ€•Î³ monitoring in carbon ionÂtherapy. Medical Physics, 2017, 44, 4276-4286.	1.6	10
41	MONDO: a neutron tracker for particle therapy secondary emission characterisation. Physics in Medicine and Biology, 2017, 62, 3299-3312.	1.6	25
42	Abstract ID: 67 MC codes and range monitoring in particle therapy: The case of secondary charged particles. Physica Medica, 2017, 42, 49.	0.4	0
43	Abstract ID: 1 Elastic scattering in FLUKA code for MONDO experiment: characterization of the secondary fast and ultrafast neutrons emitted in particle therapy. Physica Medica, 2017, 42, 1.	0.4	0
44	Use of bremsstrahlung radiation to identify hidden weak Î²^{â^'} sources: feasibility and possible use in radio-guided surgery. Journal of Instrumentation, 2017, 12, P11006-P11006.	0.5	2
45	Feasibility of beta-particle radioguided surgery for a variety of â€œnuclear medicineâ€•radionuclides. Physica Medica, 2017, 43, 127-133.	0.4	24
46	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.	1.6	5
47	The Foot (Fragmentation Of Target) Experiment. , 2017, , .		2
48	Measurement of secondary particle production induced by particle therapy ion beams impinging on a PMMA target. EPJ Web of Conferences, 2016, 117, 05007.	0.1	3
49	Monitoring of Hadrontherapy Treatments by Means of Charged Particle Detection. Frontiers in Oncology, 2016, 6, 177.	1.3	23
50	First ex vivo validation of a radioguided surgery technique with<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mrow><mml:mi>Î²</mml:mi></mml:mrow></mml:math>-radiation.. Physica Medica, 2016, 32, 1139-1144.	0.4	30
51	Prompt-Î³ production of 220 MeV/u¹²C ions interacting with a PMMA target. Journal of Instrumentation, 2015, 10, P10034-P10034.	0.5	14