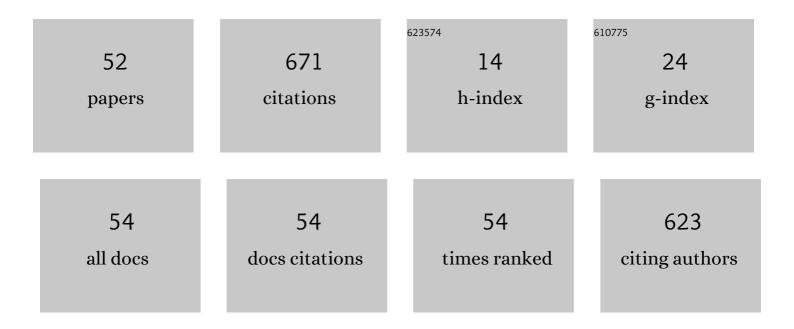
Ilaria Mattei

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Toward Radioguided Surgery with β ^{â^'} Decays: Uptake of a Somatostatin Analogue, DOTATOC, in Meningioma and High-Grade Glioma. Journal of Nuclear Medicine, 2015, 56, 3-8.	2.8	92
2	Measurement of charged particle yields from PMMA irradiated by a 220 MeV/u ¹² <i>C</i> beam. Physics in Medicine and Biology, 2014, 59, 1857-1872.	1.6	60
3	A novel radioguided surgery technique exploiting βâ^' decays. Scientific Reports, 2014, 4, 4401.	1.6	48
4	Charged particle's flux measurement from PMMA irradiated by 80 MeV/u carbon ion beam. Physics in Medicine and Biology, 2012, 57, 5667-5678.	1.6	37
5	Properties of para-Terphenyl as a Detector for ⁢formula formulatype="inline">⁢tex Notation="TeX">\$alpha \$, <formula formulatype="inline"><tex Notation="TeX">\$eta \$</tex </formula> and <formula formulatype="inline"><tex notation="TeX">\$gamma \$</tex> Radiation.</formula 	1.2	35
6	Fast neutron measurements with 7Li and 6Li enriched CLYC scintillators. Nuclear Instruments and Fast neutron measurements with 7Li and 6Li enriched CLYC scintillators. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 825, 51-61.	0.7	32
7	Secondary radiation measurements for particle therapy applications: prompt photons produced by ⁴ He, ¹² C and ¹⁶ O ion beams in a PMMA target. Physics in Medicine and Biology, 2017, 62, 1438-1455.	1.6	30
8	Precise measurement of prompt photon emission from 80 MeV/u carbon ion beam irradiation. Journal of Instrumentation, 2012, 7, P03001-P03001.	0.5	26
9	Design of a new tracking device for on-line beam range monitor in carbon therapy. Physica Medica, 2017, 34, 18-27.	0.4	25
10	Monitoring of Hadrontherapy Treatments by Means of Charged Particle Detection. Frontiers in Oncology, 2016, 6, 177.	1.3	23
11	Secondary radiation measurements for particle therapy applications: nuclear fragmentation produced by ⁴ He ion beams in a PMMA target. Physics in Medicine and Biology, 2017, 62, 1291-1309.	1.6	23
12	Review and performance of the Dose Profiler, a particle therapy treatments online monitor. Physica Medica, 2019, 65, 84-93.	0.4	19
13	Secondary radiation measurements for particle therapy applications: charged particles produced by ⁴ He and ¹² C ion beams in a PMMA target at large angle. Physics in Medicine and Biology, 2018, 63, 055018.	1.6	16
14	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
15	Study of the time and space distribution of emitters from carbon ion beam irradiation on PMMA. Nuclear Instruments & Methods in Physics Research B, 2012, 283, 1-8.	0.6	15
16	Prompt-Î ³ production of 220 MeV/u ¹² C ions interacting with a PMMA target. Journal of Instrumentation, 2015, 10, P10034-P10034.	0.5	14
17	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
18	Intraoperative probe detecting βâ~' 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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19	Benchmarking Geant4 hadronic models for prompt―γ monitoring in carbon ionÂtherapy. Medical Physics, 2017, 44, 4276-4286.	1.6	10
20	An Intraoperative \$eta ^{-}\$ Detecting Probe for Radio-Guided Surgery in Tumour Resection. IEEE Transactions on Nuclear Science, 2016, 63, 2533-2539.	1.2	9
21	Ion charge separation with new generation of nuclear emulsion films. Open Physics, 2019, 17, 233-240.	0.8	9
22	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
23	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
24	Development and characterization of al̈́ 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	FLUKA simulation of target fragmentation in proton therapy. Physica Medica, 2020, 80, 342-346.	0.4	8
26	Extended calibration range for prompt photon emission in ion beam irradiation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 745, 114-118.	0.7	7
27	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
28	Charge identification of fragments with the emulsion spectrometer of the FOOT experiment. Open Physics, 2021, 19, 383-394.	0.8	6
29	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.	0.5	5
30	Polycrystalline para-terphenyl scintillator adopted in a β ^{â^³} detecting probe for radio-guided surgery. Journal of Physics: Conference Series, 2015, 620, 012009.	0.3	5
31	Addendum: Measurement of charged particle yields from PMMA irradiated by a 220 MeV/u ¹² C beam. Physics in Medicine and Biology, 2017, 62, 8483-8494.	1.6	5
32	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
33	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.	2.7	5
34	Nuclear physics and particle therapy. Advances in Physics: X, 2016, 1, 661-686.	1.5	4
35	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
36	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

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#	Article	IF	CITATIONS
37	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
38	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
39	Intraoperative $\hat{l}^2 \hat{a}^2$ detecting probe for radio-guided surgery in tumour resection. , 2015, , .		2
40	Scintillating Fiber Devices for Particle Therapy Applications. IEEE Transactions on Nuclear Science, 2018, 65, 2054-2060.	1.2	1
41	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
42	Enhancing the understanding of fragmentation processes in hadrontherapy and radioprotection in space with the FOOT experiment. Physica Scripta, 2021, 96, 114013.	1.2	1
43	Measurement of prompt photons and gamma PET from 80 MeV/u carbon beam on PMMA target. , 2011, , .		0
44	Charged and Neutral Particles Production from 80 MeV/u ¹² C ion beam on a PMMA target. , 2012, , .		0
45	An innovative radio-guided surgery technique for complete resection of tumors. Journal of Physics: Conference Series, 2014, 566, 012020.	0.3	0
46	Intraoperative beta- detecting probe for radio-guided surgery of brain tumors. , 2014, , .		0
47	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
48	In-room performance evaluation of a novel online charged secondary particles monitor of light ions PT treatments. , 2018, , .		0
49	A 16 × 8 Digital-SiPM Array With Distributed Trigger Generator for Low SNR Particle Tracking. , 2019, , .		0
50	Nuclear interactions and medicine. European Physical Journal Plus, 2019, 134, 1.	1.2	0
51	PAPRICA: The Pair Production Imaging Chamber—Proof of Principle. Frontiers in Physics, 2021, 9, .	1.0	0
52	The MONDO Tracker: Characterisation and Study of Secondary Ultrafast Neutrons Production in Carbon Ion Radiotherapy. Frontiers in Physics, 2020, 8, .	1.0	0