

Michela Marafini

List of Publications by Year in descending order

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Version: 2024-02-01

95
papers

1,325
citations

331538

21
h-index

414303

32
g-index

97
all docs

97
docs citations

97
times ranked

1206
citing authors

#	ARTICLE	IF	CITATIONS
1	The CYGNO Experiment. <i>Instruments</i> , 2022, 6, 6.	0.8	18
2	PAPRICA: The Pair Production Imaging Chamberâ€™Proof of Principle. <i>Frontiers in Physics</i> , 2021, 9, .	1.0	0
3	Performance of an optically read out time projection chamber with ultra-relativistic electrons. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2021, 999, 165209.	0.7	6
4	Monitoring Carbon Ion Beams Transverse Position Detecting Charged Secondary Fragments: Results From Patient Treatment Performed at CNAO. <i>Frontiers in Oncology</i> , 2021, 11, 601784.	1.3	9
5	Charge identification of nuclear fragments with the FOOT Time-Of-Flight system. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2021, 1001, 165206.	0.7	4
6	Directional Dark Matter Searches with CYGNO. <i>Particles</i> , 2021, 4, 343-353.	0.5	3
7	Enhancing the understanding of fragmentation processes in hadrontherapy and radioprotection in space with the FOOT experiment. <i>Physica Scripta</i> , 2021, 96, 114013.	1.2	1
8	Detection of Interfractional Morphological Changes in Proton Therapy: A Simulation and In Vivo Study With the INSIDE In-Beam PET. <i>Frontiers in Physics</i> , 2021, 8, .	1.0	16
9	Identification of low energy nuclear recoils in a gas time projection chamber with optical readout. <i>Measurement Science and Technology</i> , 2021, 32, 025902.	1.4	13
10	Charged particles and neutron trackers: Applications to particle therapy. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2020, 954, 161229.	0.7	1
11	Development of a novel neutron tracker for the characterisation of secondary neutrons emitted in Particle Therapy. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2020, 958, 162862.	0.7	7
12	Micro pattern gas detector optical readout for directional dark matter searches. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2020, 958, 162400.	0.7	2
13	First evidence of luminescence in a He/CF ₄ gas mixture induced by non-ionizing electrons. <i>Journal of Instrumentation</i> , 2020, 15, P08018-P08018.	0.5	7
14	Performance of Prototype of Optically Readout TPC with a ⁵⁵ Fe source. <i>Journal of Physics: Conference Series</i> , 2020, 1498, 012017.	0.3	0
15	Feasibility study on the use of CMOS sensors as detectors in radioguided surgery with \hat{I}^2 emitters. <i>Applied Radiation and Isotopes</i> , 2020, 165, 109347.	0.7	6
16	Directional Dark Matter Searches with the CYGNO Project. <i>Journal of Physics: Conference Series</i> , 2020, 1468, 012039.	0.3	0
17	Inter-fractional monitoring of ^{12}C ions treatments: results from a clinical trial at the CNAO facility. <i>Scientific Reports</i> , 2020, 10, 20735.	1.6	13
18	CYGNO: Triple-GEM Optical Readout for Directional Dark Matter Search. <i>Journal of Physics: Conference Series</i> , 2020, 1498, 012016.	0.3	4

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19	Measurement of ^{12}C 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
20	CYGN0: a gaseous TPC with optical readout for dark matter directional search. Journal of Instrumentation, 2020, 15, C07036-C07036.	0.5	17
21	Stability and detection performance of a GEM-based Optical Readout TPC with He/CF_4 gas mixtures. Journal of Instrumentation, 2020, 15, P10001-P10001.	0.5	12
22	A density-based clustering algorithm for the CYGN0 data analysis. Journal of Instrumentation, 2020, 15, T12003-T12003.	0.5	15
23	The MONDO Tracker: Characterisation and Study of Secondary Ultrafast Neutrons Production in Carbon Ion Radiotherapy. Frontiers in Physics, 2020, 8, .	1.0	0
24	Radio-Guided Surgery with ^{125}I Radiation: Tests on Ex-Vivo Specimens. IFMBE Proceedings, 2019, , 693-697.	0.2	2
25	Performance of optically readout GEM-based TPC with a ^{55}Fe source. Journal of Instrumentation, 2019, 14, P07011-P07011.	0.5	18
26	Secondary radiation measurements for particle therapy applications: Charged secondaries produced by ^{16}O ion beams in a PMMA target at large angles. Physica Medica, 2019, 64, 45-53.	0.4	4
27	A 16×8 Digital-SiPM Array With Distributed Trigger Generator for Low SNR Particle Tracking. IEEE Solid-State Circuits Letters, 2019, 2, 75-78.	1.3	5
28	Review and performance of the Dose Profiler, a particle therapy treatments online monitor. Physica Medica, 2019, 65, 84-93.	0.4	19
29	The $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll" \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:math} \rangle$ radio-guided surgery: Method to estimate the minimum injectable activity from ex-vivo test. Physica Medica, 2019, 58, 114-120.	0.4	13
30	Tests of Eco-Friendly Gas Mixtures in GEM Based Detectors with Optical Readout. , 2019, , .		0
31	A 1 m^3 Gas Time Projection Chamber with Optical Readout for Directional Dark Matter Searches: the CYGN0 Experiment. , 2019, , .		0
32	A 16×8 Digital-SiPM Array With Distributed Trigger Generator for Low SNR Particle Tracking. , 2019, , .		0
33	High resolution TPC based on optically readout GEM. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 936, 453-455.	0.7	7
34	Study of the Impact of Pre-processing Applied to Images Acquired by the Cygno Experiment. Lecture Notes in Computer Science, 2019, , 520-530.	1.0	0
35	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
36	Secondary radiation measurements for particle therapy applications: charged particles produced by ^4He and ^{12}C ion beams in a PMMA target at large angle. Physics in Medicine and Biology, 2018, 63, 055018.	1.6	16

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37	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
38	In-room performance evaluation of a novel online charged secondary particles monitor of light ions PT treatments. , 2018, , .		0
39	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
40	Radioguided surgery with ^{125}I radiation: a novel application with Ga68. Scientific Reports, 2018, 8, 16171.	1.6	28
41	MPGD Optical Read Out for Directional Dark Matter Search. , 2018, , .		2
42	Combined readout of a triple-GEM detector. Journal of Instrumentation, 2018, 13, P05001-P05001.	0.5	22
43	Study of the Performance of an Optically Readout Triple-GEM. IEEE Transactions on Nuclear Science, 2018, 65, 604-608.	1.2	10
44	Use of a CMOS image sensor for beta-emitting radionuclide measurements. Journal of Instrumentation, 2018, 13, P07003-P07003.	0.5	7
45	Position sensitive ^{125}I detector based on p-terphenyl scintillator for medical applications. Journal of Instrumentation, 2018, 13, P07001-P07001.	0.5	1
46	Scintillating Fiber Devices for Particle Therapy Applications. IEEE Transactions on Nuclear Science, 2018, 65, 2054-2060.	1.2	1
47	ORANGE: A high sensitivity particle tracker based on optically read out GEM. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 845, 285-288.	0.7	25
48	The MONDO project: A secondary neutron tracker detector for particle therapy. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 845, 556-559.	0.7	10
49	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
50	Intraoperative probe detecting ^{125}I 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
51	Design of a new tracking device for on-line beam range monitor in carbon therapy. Physica Medica, 2017, 34, 18-27.	0.4	25
52	Secondary radiation measurements for particle therapy applications: nuclear fragmentation produced by ^4He ion beams in a PMMA target. Physics in Medicine and Biology, 2017, 62, 1291-1309.	1.6	23
53	Secondary radiation measurements for particle therapy applications: prompt photons produced by ^4He , ^{12}C and ^{16}O ion beams in a PMMA target. Physics in Medicine and Biology, 2017, 62, 1438-1455.	1.6	30
54	Benchmarking Geant4 hadronic models for prompt ^{13}C monitoring in carbon ion therapy. Medical Physics, 2017, 44, 4276-4286.	1.6	10

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55	MONDO: a neutron tracker for particle therapy secondary emission characterisation. Physics in Medicine and Biology, 2017, 62, 3299-3312.	1.6	25
56	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
57	Use of bremsstrahlung radiation to identify hidden weak \hat{I}^2 sources: feasibility and possible use in radio-guided surgery. Journal of Instrumentation, 2017, 12, P11006-P11006.	0.5	2
58	Feasibility of beta-particle radioguided surgery for a variety of \hat{I}^2 radionuclides. Physica Medica, 2017, 43, 127-133.	0.4	24
59	Addendum: Measurement of charged particle yields from PMMA irradiated by a 220 MeV/u $\langle \sup \rangle 12 \langle /sup \rangle$ C beam. Physics in Medicine and Biology, 2017, 62, 8483-8494.	1.6	5
60	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
61	Monitoring of Hadrontherapy Treatments by Means of Charged Particle Detection. Frontiers in Oncology, 2016, 6, 177.	1.3	23
62	Optical readout of a triple-GEM detector by means of a CMOS sensor. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 824, 562-564.	0.7	17
63	First ex vivo validation of a radioguided surgery technique with $\langle \sup \rangle 12 \langle /sup \rangle$ C radiation.. Physica Medica, 2016, 32, 1139-1144.	0.4	30
64	An Intraoperative \hat{I}^2 Detecting Probe for Radio-Guided Surgery in Tumour Resection. IEEE Transactions on Nuclear Science, 2016, 63, 2533-2539.	1.2	9
65	MONDO: A neutron tracker for particle therapy secondary emission fluxes measurements. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 824, 210-211.	0.7	6
66	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
67	Intraoperative \hat{I}^2 detecting probe for radio-guided surgery in tumour resection. , 2015, , .		2
68	Polycrystalline para-terphenyl scintillator adopted in a \hat{I}^2 detecting probe for radio-guided surgery. Journal of Physics: Conference Series, 2015, 620, 012009.	0.3	5
69	High granularity tracker based on a Triple-GEM optically read by a CMOS-based camera. Journal of Instrumentation, 2015, 10, P12010-P12010.	0.5	22
70	Time Evolution of DOTATOC Uptake in Neuroendocrine Tumors in View of a Possible Application of Radioguided Surgery with \hat{I}^2 Decay. Journal of Nuclear Medicine, 2015, 56, 1501-1506.	2.8	26
71	Prompt- \hat{I}^3 production of 220 MeV/u $\langle \sup \rangle 12 \langle /sup \rangle$ C ions interacting with a PMMA target. Journal of Instrumentation, 2015, 10, P10034-P10034.	0.5	14
72	A Study of Monitoring Performances with the INSIDE System. Acta Physica Polonica A, 2015, 127, 1468-1470.	0.2	11

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73	The INSIDE Project: Innovative Solutions for In-Beam Dosimetry in Hadrontherapy. Acta Physica Polonica A, 2015, 127, 1465-1467.	0.2	26
74	Toward Radioguided Surgery with ^{125}I Decays: Uptake of a Somatostatin Analogue, DOTATOC, in Meningioma and High-Grade Glioma. Journal of Nuclear Medicine, 2015, 56, 3-8.	2.8	92
75	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
76	Measurement of charged particle yields from PMMA irradiated by a 220 MeV/u ^{12}C beam. Physics in Medicine and Biology, 2014, 59, 1857-1872.	1.6	60
77	Properties of para-terphenyl as a Detector for α and β and γ Radiation. IEEE Transactions on Nuclear Science, 2014, 61, 1463-1467.	1.2	35
78	Measurements and optimization of the light yield of a TeO_2 crystal. Journal of Instrumentation, 2014, 9, P10014-P10014.	0.5	4
79	An innovative radio-guided surgery technique for complete resection of tumors. Journal of Physics: Conference Series, 2014, 566, 012020.	0.3	0
80	Intraoperative beta- detecting probe for radio-guided surgery of brain tumors. , 2014, , .		0
81	A novel radioguided surgery technique exploiting ^{125}I decays. Scientific Reports, 2014, 4, 4401.	1.6	48
82	Monte Carlo simulation of the Cherenkov radiation emitted by TeO_2 crystal when crossed by cosmic muons. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 732, 338-341.	0.7	7
83	MEMPHYS "MEgatonneMassPHYSics". Nuclear Physics, Section B, Proceedings Supplements, 2013, 237-238, 311-313.	0.5	0
84	Study of the performance of a large scale water-Cherenkov detector (MEMPHYS). Journal of Cosmology and Astroparticle Physics, 2013, 2013, 024-024.	1.9	37
85	High intensity neutrino oscillation facilities in Europe. Physical Review Special Topics: Accelerators and Beams, 2013, 16, .	1.8	25
86	Future large-scale water-Cherenkov detector. Physical Review Special Topics: Accelerators and Beams, 2013, 16, .	1.8	5
87	Charged particle μs flux measurement from PMMA irradiated by 80 MeV/u carbon ion beam. Physics in Medicine and Biology, 2012, 57, 5667-5678.	1.6	37
88	Charged and Neutral Particles Production from 80 MeV/u ^{12}C ion beam on a PMMA target. , 2012, , .		0
89	Precise measurement of prompt photon emission from 80 MeV/u carbon ion beam irradiation. Journal of Instrumentation, 2012, 7, P03001-P03001.	0.5	26
90	Measurements of the Cherenkov light emitted by a TeO_2 crystal. Journal of Instrumentation, 2012, 7, P11014-P11014.	0.5	8

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91	Site studies and R&D for a water Čerenkov Megaton detector in Europe. Nuclear Physics, Section B, Proceedings Supplements, 2012, 229-232, 432.	0.5	0
92	The next-generation liquid-scintillator neutrino observatory LENA. Astroparticle Physics, 2012, 35, 685-732.	1.9	181
93	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
94	The MEMPHYS project. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 639, 287-289.	0.7	12
95	Measurement of prompt photons and gamma PET from 80 MeV/u carbon beam on PMMA target. , 2011, , .		0