

Michela Marafini

List of Publications by Year in descending order

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95
papers

1,325
citations

331538

21
h-index

414303

32
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97
all docs

97
docs citations

97
times ranked

1206
citing authors

#	ARTICLE	IF	CITATIONS
1	The next-generation liquid-scintillator neutrino observatory LENA. <i>Astroparticle Physics</i> , 2012, 35, 685-732.	1.9	181
2	Toward Radioguided Surgery with $\hat{\nu}^{\beta}$ Decays: Uptake of a Somatostatin Analogue, DOTATOC, in Meningioma and High-Grade Glioma. <i>Journal of Nuclear Medicine</i> , 2015, 56, 3-8.	2.8	92
3	Measurement of charged particle yields from PMMA irradiated by a 220 MeV/u ^{12}C beam. <i>Physics in Medicine and Biology</i> , 2014, 59, 1857-1872.	1.6	60
4	A novel radioguided surgery technique exploiting $\hat{\nu}^{\beta}$ decays. <i>Scientific Reports</i> , 2014, 4, 4401.	1.6	48
5	Charged particle α 's flux measurement from PMMA irradiated by 80 MeV/u carbon ion beam. <i>Physics in Medicine and Biology</i> , 2012, 57, 5667-5678.	1.6	37
6	Study of the performance of a large scale water-Cherenkov detector (MEMPHYS). <i>Journal of Cosmology and Astroparticle Physics</i> , 2013, 2013, 024-024.	1.9	37
7	Properties of para-Terphenyl as a Detector for α , β , and γ Radiation. <i>Journal of Nuclear Medicine</i> , 2014, 55, 1483-1487.	1.2	35
8	First ex vivo validation of a radioguided surgery technique with $\hat{\nu}^{\beta}$ -radiation.. <i>Physica Medica</i> , 2016, 32, 1139-1144.	0.4	30
9	Secondary radiation measurements for particle therapy applications: prompt photons produced by ^4He , ^{12}C and ^{16}O ion beams in a PMMA target. <i>Physics in Medicine and Biology</i> , 2017, 62, 1438-1455.	1.6	30
10	Radioguided surgery with $\hat{\nu}^{\beta}$ radiation: a novel application with Ga68. <i>Scientific Reports</i> , 2018, 8, 16171.	1.6	28
11	Precise measurement of prompt photon emission from 80 MeV/u carbon ion beam irradiation. <i>Journal of Instrumentation</i> , 2012, 7, P03001-P03001.	0.5	26
12	Time Evolution of DOTATOC Uptake in Neuroendocrine Tumors in View of a Possible Application of Radioguided Surgery with $\hat{\nu}^{\beta}$ Decay. <i>Journal of Nuclear Medicine</i> , 2015, 56, 1501-1506.	2.8	26
13	The INSIDE Project: Innovative Solutions for In-Beam Dosimetry in Hadrontherapy. <i>Acta Physica Polonica A</i> , 2015, 127, 1465-1467.	0.2	26
14	High intensity neutrino oscillation facilities in Europe. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2013, 16, .	1.8	25
15	ORANGE: A high sensitivity particle tracker based on optically read out GEM. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2017, 845, 285-288.	0.7	25
16	Design of a new tracking device for on-line beam range monitor in carbon therapy. <i>Physica Medica</i> , 2017, 34, 18-27.	0.4	25
17	MONDO: a neutron tracker for particle therapy secondary emission characterisation. <i>Physics in Medicine and Biology</i> , 2017, 62, 3299-3312.	1.6	25
18	Feasibility of beta-particle radioguided surgery for a variety of α -nuclear medicine β -radionuclides. <i>Physica Medica</i> , 2017, 43, 127-133.	0.4	24

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37	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
38	A Study of Monitoring Performances with the INSIDE System. Acta Physica Polonica A, 2015, 127, 1468-1470.	0.2	11
39	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
40	Intraoperative probe detecting ^{225}Ac 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
41	Benchmarking Geant4 hadronic models for prompt ^{13}C monitoring in carbon ion therapy. Medical Physics, 2017, 44, 4276-4286.	1.6	10
42	Study of the Performance of an Optically Readout Triple-GEM. IEEE Transactions on Nuclear Science, 2018, 65, 604-608.	1.2	10
43	An Intraoperative β^- Detecting Probe for Radio-Guided Surgery in Tumour Resection. IEEE Transactions on Nuclear Science, 2016, 63, 2533-2539.	1.2	9
44	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
45	Measurements of the Čerenkov light emitted by a TeO ₂ crystal. Journal of Instrumentation, 2012, 7, P11014-P11014.	0.5	8
46	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
47	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
48	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
49	Use of a CMOS image sensor for beta-emitting radionuclide measurements. Journal of Instrumentation, 2018, 13, P07003-P07003.	0.5	7
50	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
51	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
52	First evidence of luminescence in a He/CF ₄ gas mixture induced by non-ionizing electrons. Journal of Instrumentation, 2020, 15, P08018-P08018.	0.5	7
53	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
54	Feasibility study on the use of CMOS sensors as detectors in radioguided surgery with ^{225}Ac emitters. Applied Radiation and Isotopes, 2020, 165, 109347.	0.7	6

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55	Performance of an optically read out time projection chamber with ultra-relativistic electrons. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 999, 165209.	0.7	6
56	Future large-scale water-Cherenkov detector. Physical Review Special Topics: Accelerators and Beams, 2013, 16, .	1.8	5
57	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
58	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
59	Addendum: Measurement of charged particle yields from PMMA irradiated by a $220 \text{ MeV/u}^{12}\text{C}$ beam. Physics in Medicine and Biology, 2017, 62, 8483-8494.	1.6	5
60	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
61	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
62	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
63	Measurements and optimization of the light yield of a TeO_2 crystal. Journal of Instrumentation, 2014, 9, P10014-P10014.	0.5	4
64	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
65	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
66	CYGNO: Triple-GEM Optical Readout for Directional Dark Matter Search. Journal of Physics: Conference Series, 2020, 1498, 012016.	0.3	4
67	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
68	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
69	Directional Dark Matter Searches with CYGNO. Particles, 2021, 4, 343-353.	0.5	3
70	Intraoperative \hat{I}^2 detecting probe for radio-guided surgery in tumour resection. , 2015, , .		2
71	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
72	MPGD Optical Read Out for Directional Dark Matter Search. , 2018, , .		2

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73	Radio-Guided Surgery with ^{125}I Radiation: Tests on Ex-Vivo Specimens. IFMBE Proceedings, 2019, , 693-697.	0.2	2
74	Micro pattern gas detector optical readout for directional dark matter searches. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 958, 162400.	0.7	2
75	Position sensitive ^{125}I detector based on p-terphenyl scintillator for medical applications. Journal of Instrumentation, 2018, 13, P07001-P07001.	0.5	1
76	Scintillating Fiber Devices for Particle Therapy Applications. IEEE Transactions on Nuclear Science, 2018, 65, 2054-2060.	1.2	1
77	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
78	Enhancing the understanding of fragmentation processes in hadrontherapy and radioprotection in space with the FOOT experiment. Physica Scripta, 2021, 96, 114013.	1.2	1
79	Measurement of prompt photons and gamma PET from 80 MeV/u carbon beam on PMMA target. , 2011, , .		0
80	Charged and Neutral Particles Production from 80 MeV/u ^{12}C ion beam on a PMMA target. , 2012, , .		0
81	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
82	MEMPHYS “MEgatonneMassPHYSics. Nuclear Physics, Section B, Proceedings Supplements, 2013, 237-238, 311-313.	0.5	0
83	An innovative radio-guided surgery technique for complete resection of tumors. Journal of Physics: Conference Series, 2014, 566, 012020.	0.3	0
84	Intraoperative beta- detecting probe for radio-guided surgery of brain tumors. , 2014, , .		0
85	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
86	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
87	In-room performance evaluation of a novel online charged secondary particles monitor of light ions PT treatments. , 2018, , .		0
88	Tests of Eco-Friendly Gas Mixtures in GEM Based Detectors with Optical Readout. , 2019, , .		0
89	A 1 m ³ Gas Time Projection Chamber with Optical Readout for Directional Dark Matter Searches: the CYGNO Experiment. , 2019, , .		0
90	A 16 Å— 8 Digital-SiPM Array With Distributed Trigger Generator for Low SNR Particle Tracking. , 2019, , .		0

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91	Performance of Prototype of Optically Readout TPC with a ^{55}Fe source. Journal of Physics: Conference Series, 2020, 1498, 012017.	0.3	0
92	Directional Dark Matter Searches with the CYGNO Project. Journal of Physics: Conference Series, 2020, 1468, 012039.	0.3	0
93	PAPRICA: The Pair Production Imaging Chamberâ€™Proof of Principle. Frontiers in Physics, 2021, 9, .	1.0	0
94	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
95	The MONDO Tracker: Characterisation and Study of Secondary Ultrafast Neutrons Production in Carbon Ion Radiotherapy. Frontiers in Physics, 2020, 8, .	1.0	0