Francesco Collamati

List of Publications by Year
in descending order

70	2,147	331670 21	233421 45
papers	citations	h-index	g-index

76	76	76	1865
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Muon detection in electron-positron annihilation for muon collider studies. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1024, 166129.	1.6	1
2	Mono-channel probes for beta emission. , 2022, , .		0
3	Machine Learning Techniques for Pile-Up Rejection in Cryogenic Calorimeters. Journal of Low Temperature Physics, 2022, 209, 1024-1031.	1.4	2
4	Characterization of cubic Li$$_{2}$$^{100}MoO$$_4$$ crystals for the CUPID experiment. European Physical Journal C, 2021, 81, 1.	3.9	21
5	A CUPID Li₂¹⁰⁰MoO₄ scintillating bolometer tested in the CROSS underground facility. Journal of Instrumentation, 2021, 16, P02037-P02037.	1.2	16
6	First Ex Vivo Results of Î²^{â^'}-Radioguided Surgery in Small Intestine Neuroendocrine Tumors with ⁹⁰Y-DOTATOC. Cancer Biotherapy and Radiopharmaceuticals, 2021, 36, 397-406.	1.0	8
7	Novel technique for the study of pileup events in cryogenic bolometers. Physical Review C, 2021, 104, .	2.9	16
8	Theoretical Modeling for the Thermal Stability of Solid Targets in a Positron-Driven Muon Collider. International Journal of Thermophysics, 2021, 42, 163.	2.1	4
9	Beta radioguided surgery: towards routine implementation?. Quarterly Journal of Nuclear Medicine and Molecular Imaging, 2021, 65, 229-243.	0.7	7
10	A wearable radiation measurement system for collection of patientâ€specific timeâ€activity data in radiopharmaceutical therapy: system design and monte carlo simulation results. Medical Physics, 2021, , .	3.0	3
11	Optimization of a single module of CUPID. Journal of Physics: Conference Series, 2021, 2156, 012228.	0.4	0
12	Feasibility study on the use of CMOS sensors as detectors in radioguided surgery with<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e651" altimg="si11.svg"><mml:msup><mml:mrow><mml:mi>Î²</mml:mi></mml:mrow><mml:mrow><mml:mo>â^'</mml:mo></mml:mrow></ emitters. Applied Radiation and Isotopes, 2020, 165, 109347.	1.5	6
13	Detector and Physics Performance at a Muon Collider. Journal of Instrumentation, 2020, 15, P05001-P05001.	1.2	49
14	Stability and efficiency of a CMOS sensor as detector of low energy Î² and Î³ particles. Journal of Instrumentation, 2020, 15, P11003-P11003.	1.2	5
15	Radioguided surgery with Î²â^' radiation in pancreatic Neuroendocrine Tumors: a feasibility study. Scientific Reports, 2020, 10, 4015.	3.3	8
16	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>- for Radio Guided Surgery on ex-vivo neuroendocrine tumors samples. Physica Medica, 2020, 72, 96-102.	1.7	10
17	Study of muon pair production from positron annihilation at threshold energy. Journal of Instrumentation, 2020, 15, P01036-P01036.	1.2	9
18	A DROP-IN beta probe for robot-assisted 68Ga-PSMA radioguided surgery: first ex vivo technology evaluation using prostate cancer specimens. EJNMMI Research, 2020, 10, 92.	2.5	32

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19	FCC-ee interaction region backgrounds. International Journal of Modern Physics A, 2020, 35, 2041009.	1.5	2
20	Radio-Guided Surgery with Î²â^' Radiation: Tests on Ex-Vivo Specimens. IFMBE Proceedings, 2019, , 693-697.	0.3	2
21	FCC-hh: The Hadron Collider. European Physical Journal: Special Topics, 2019, 228, 755-1107.	2.6	367
22	HE-LHC: The High-Energy Large Hadron Collider. European Physical Journal: Special Topics, 2019, 228, 1109-1382.	2.6	108
23	FCC-ee: The Lepton Collider. European Physical Journal: Special Topics, 2019, 228, 261-623.	2.6	424
24	FCC Physics Opportunities. European Physical Journal C, 2019, 79, 1.	3.9	346
25	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.	0.7	13
26	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.	0.7	15
27	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.	3.0	16
28	Mass spectrometry characterization of DOTA-Nimotuzumab conjugate as precursor of an innovative Î² â^' tracer suitable in radio-guided surgery. Journal of Pharmaceutical and Biomedical Analysis, 2018, 156, 8-15.	2.8	5
29	Proposal of an experimental test at DAÎ¦NE for the low emittance muon beam production from positrons on target. Journal of Physics: Conference Series, 2018, 1067, 022013.	0.4	0
30	Beam-gas background characterization in the FCC-ee IR. Journal of Physics: Conference Series, 2018, 1067, 022012.	0.4	0
31	Radioguided surgery with Î² radiation: a novel application with Ga68. Scientific Reports, 2018, 8, 16171.	3.3	28
32	Use of a CMOS image sensor for beta-emitting radionuclide measurements. Journal of Instrumentation, 2018, 13, P07003-P07003.	1.2	7
33	Position sensitive Î²^{â^'} detector based on p-terphenyl scintillator for medical applications. Journal of Instrumentation, 2018, 13, P07001-P07001.	1.2	1
34	Low emittance muon accelerator studies with production from positrons on target. Physical Review Accelerators and Beams, 2018, 21, .	1.6	21
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.	1.6	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.	1.6	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.	0.7	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.	3.0	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.	3.0	30
40	Benchmarking Geant4 hadronic models for promptâ€•Î³ monitoring in carbon ionÂtherapy. Medical Physics, 2017, 44, 4276-4286.	3.0	10
41	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.	1.2	2
42	Feasibility of beta-particle radioguided surgery for a variety of â€œnuclear medicineâ€•radionuclides. Physica Medica, 2017, 43, 127-133.	0.7	24
43	Synchrotron radiation backgrounds for the FCC-hh experiments. Journal of Physics: Conference Series, 2017, 874, 012004.	0.4	2
44	Measurement of secondary particle production induced by particle therapy ion beams impinging on a PMMA target. EPJ Web of Conferences, 2016, 117, 05007.	0.3	3
45	Monitoring of Hadrontherapy Treatments by Means of Charged Particle Detection. Frontiers in Oncology, 2016, 6, 177.	2.8	23
46	The FLUKA Monte Carlo Code. Springer Theses, 2016, , 19-26.	0.1	1
47	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.	0.7	30
48	An Intraoperative $eta ^{-}$ Detecting Probe for Radio-Guided Surgery in Tumour Resection. IEEE Transactions on Nuclear Science, 2016, 63, 2533-2539.	2.0	9
49	Design and Tests of the Probe. Springer Theses, 2016, , 27-51.	0.1	0
50	Introduction to Radioguided Surgery. Springer Theses, 2016, , 1-18.	0.1	0
51	Evaluation of Probe Performances. Springer Theses, 2016, , 85-96.	0.1	0
52	SU-F-J-202: Secondary Radiation Measurements for Charged Particle Therapy Monitoring: Fragmentation of Therapeutic He, C and O Ion Beams Impinging On a PMMA Target. Medical Physics, 2016, 43, 3454-3455.	3.0	0
53	SU-G-JeP1-13: Innovative Tracking Detector for Dose Monitoring in Hadron Therapy: Realization and Monte Carlo Simulations. Medical Physics, 2016, 43, 3651-3651.	3.0	0
54	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.	1.2	5

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55	Intraoperative Î²â^' detecting probe for radio-guided surgery in tumour resection. , 2015, , .		2
56	Polycrystalline para-terphenyl scintillator adopted in a Î²^{â^'}detecting probe for radio-guided surgery. Journal of Physics: Conference Series, 2015, 620, 012009.	0.4	5
57	Time Evolution of DOTATOC Uptake in Neuroendocrine Tumors in View of a Possible Application of Radioguided Surgery with Î²^{â^'} Decay. Journal of Nuclear Medicine, 2015, 56, 1501-1506.	5.0	26
58	Prompt-Î³ production of 220 MeV/u¹²C ions interacting with a PMMA target. Journal of Instrumentation, 2015, 10, P10034-P10034.	1.2	14
59	Toward Radioguided Surgery with Î²^{â^'} Decays: Uptake of a Somatostatin Analogue, DOTATOC, in Meningioma and High-Grade Glioma. Journal of Nuclear Medicine, 2015, 56, 3-8.	5.0	92
60	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.	1.6	7
61	Measurement of charged particle yields from PMMA irradiated by a 220 MeV/u¹²Cbeam. Physics in Medicine and Biology, 2014, 59, 1857-1872.	3.0	60
62	Properties of para-Terphenyl as a Detector for <formula formulatype="inline"><tex Notation="TeX">$alpha $</tex></formula>, <formula formulatype="inline"><tex Notation="TeX">$eta $</tex></formula> and <formula formulatype="inline"><tex Notation="TeX">$gamma $</tex></formula> Radiation. IEEE Transactions on Nuclear Science, 2014, 61, 1483-1487.	2.0	35
63	An innovative radio-guided surgery technique for complete resection of tumors. Journal of Physics: Conference Series, 2014, 566, 012020.	0.4	0
64	A novel radioguided surgery technique exploiting Î²â^' decays. Scientific Reports, 2014, 4, 4401.	3.3	48
65	Charged particleâ€™s flux measurement from PMMA irradiated by 80 MeV/u carbon ion beam. Physics in Medicine and Biology, 2012, 57, 5667-5678.	3.0	37
66	Precise measurement of prompt photon emission from 80 MeV/u carbon ion beam irradiation. Journal of Instrumentation, 2012, 7, P03001-P03001.	1.2	26
67	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.	1.4	15
68	Measurement of prompt photons and gamma PET from 80 MeV/u carbon beam on PMMA target. , 2011, , .		0
69	Hydrophilic Gold Nanoparticles as Antiâ€PDâ€L1 Antibody Carriers: Synthesis and Interface Properties. Particle and Particle Systems Characterization, 0, , 2100282.	2.3	10
70	Current use and potential role of radioguided surgery in brain tumours. Clinical and Translational Imaging, 0, , .	2.1	3