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	FCC-ee: The Lepton Collider. European Physical Journal: Special Topics, 2019, 228, 261-623.	2.6	424
2	FCC-hh: The Hadron Collider. European Physical Journal: Special Topics, 2019, 228, 755-1107.	2.6	367
3	FCC Physics Opportunities. European Physical Journal C, 2019, 79, 1.	3.9	346
4	HE-LHC: The High-Energy Large Hadron Collider. European Physical Journal: Special Topics, 2019, 228, 1109-1382.	2.6	108
5	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
6	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
7	Detector and Physics Performance at a Muon Collider. Journal of Instrumentation, 2020, 15, P05001-P05001.	1.2	49
8	A novel radioguided surgery technique exploiting Î²â^' decays. Scientific Reports, 2014, 4, 4401.	3.3	48
9	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
10	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
11	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
12	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
13	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
14	Radioguided surgery with Î² radiation: a novel application with Ga68. Scientific Reports, 2018, 8, 16171.	3.3	28
15	Precise measurement of prompt photon emission from 80 MeV/u carbon ion beam irradiation. Journal of Instrumentation, 2012, 7, P03001-P03001.	1.2	26
16	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
17	Design of a new tracking device for on-line beam range monitor in carbon therapy. Physica Medica, 2017, 34, 18-27.	0.7	25
18	Feasibility of beta-particle radioguided surgery for a variety of â€œnuclear medicineâ€•radionuclides. Physica Medica, 2017, 43, 127-133.	0.7	24

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19	Monitoring of Hadrontherapy Treatments by Means of Charged Particle Detection. Frontiers in Oncology, 2016, 6, 177.	2.8	23
20	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
21	Characterization of cubic Li$$_{2}$$^{100}MoO$$_4$$ crystals for the CUPID experiment. European Physical Journal C, 2021, 81, 1.	3.9	21
22	Low emittance muon accelerator studies with production from positrons on target. Physical Review Accelerators and Beams, 2018, 21, .	1.6	21
23	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
24	A CUPID Li₂¹⁰⁰MoO₄ scintillating bolometer tested in the CROSS underground facility. Journal of Instrumentation, 2021, 16, P02037-P02037.	1.2	16
25	Novel technique for the study of pileup events in cryogenic bolometers. Physical Review C, 2021, 104, .	2.9	16
26	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
27	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
28	Prompt-Î³ production of 220 MeV/u¹²C ions interacting with a PMMA target. Journal of Instrumentation, 2015, 10, P10034-P10034.	1.2	14
29	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></mml:mrow></mml:msup></mml:mrow></mml:math> radio-guided surgery: Method to estimate the minimum injectable activity from ex-vivo test. Physica Medica, 2019, 58, 114-120.	0.7	13
30	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
31	Benchmarking Geant4 hadronic models for promptâ€•Î³ monitoring in carbon ionÂtherapy. Medical Physics, 2017, 44, 4276-4286.	3.0	10
32	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></mml:mrow></mml:msup></mml:mrow></mml:math> for Radio Guided Surgery on ex-vivo neuroendocrine tumors samples. Physica Medica, 2020, 72, 96-102.	0.7	10
33	Hydrophilic Gold Nanoparticles as Antiâ€PDâ€L1 Antibody Carriers: Synthesis and Interface Properties. Particle and Particle Systems Characterization, 0, , 2100282.	2.3	10
34	An Intraoperative $eta ^{-}$ Detecting Probe for Radio-Guided Surgery in Tumour Resection. IEEE Transactions on Nuclear Science, 2016, 63, 2533-2539.	2.0	9
35	Study of muon pair production from positron annihilation at threshold energy. Journal of Instrumentation, 2020, 15, P01036-P01036.	1.2	9
36	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

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37	Radioguided surgery with Î²â^' radiation in pancreatic Neuroendocrine Tumors: a feasibility study. Scientific Reports, 2020, 10, 4015.	3.3	8
38	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
39	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
40	Use of a CMOS image sensor for beta-emitting radionuclide measurements. Journal of Instrumentation, 2018, 13, P07003-P07003.	1.2	7
41	Beta radioguided surgery: towards routine implementation?. Quarterly Journal of Nuclear Medicine and Molecular Imaging, 2021, 65, 229-243.	0.7	7
42	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
43	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
44	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
45	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
46	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
47	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
48	Measurement of secondary particle production induced by particle therapy ion beams impinging on a PMMA target. EPJ Web of Conferences, 2016, 117, 05007.	0.3	3
49	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
50	Current use and potential role of radioguided surgery in brain tumours. Clinical and Translational Imaging, 0, , .	2.1	3
51	Intraoperative Î²â^' detecting probe for radio-guided surgery in tumour resection. , 2015, , .		2
52	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
53	Synchrotron radiation backgrounds for the FCC-hh experiments. Journal of Physics: Conference Series, 2017, 874, 012004.	0.4	2
54	Radio-Guided Surgery with Î²â^' Radiation: Tests on Ex-Vivo Specimens. IFMBE Proceedings, 2019, , 693-697.	0.3	2

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55	FCC-ee interaction region backgrounds. International Journal of Modern Physics A, 2020, 35, 2041009.	1.5	2
56	Machine Learning Techniques for Pile-Up Rejection in Cryogenic Calorimeters. Journal of Low Temperature Physics, 2022, 209, 1024-1031.	1.4	2
57	The FLUKA Monte Carlo Code. Springer Theses, 2016, , 19-26.	0.1	1
58	Position sensitive Î²^{â^'} detector based on p-terphenyl scintillator for medical applications. Journal of Instrumentation, 2018, 13, P07001-P07001.	1.2	1
59	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
60	Measurement of prompt photons and gamma PET from 80 MeV/u carbon beam on PMMA target. , 2011, , .		0
61	An innovative radio-guided surgery technique for complete resection of tumors. Journal of Physics: Conference Series, 2014, 566, 012020.	0.4	0
62	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
63	Beam-gas background characterization in the FCC-ee IR. Journal of Physics: Conference Series, 2018, 1067, 022012.	0.4	0
64	Design and Tests of the Probe. Springer Theses, 2016, , 27-51.	0.1	0
65	Introduction to Radioguided Surgery. Springer Theses, 2016, , 1-18.	0.1	0
66	Evaluation of Probe Performances. Springer Theses, 2016, , 85-96.	0.1	0
67	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
68	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
69	Mono-channel probes for beta emission. , 2022, , .		0
70	Optimization of a single module of CUPID. Journal of Physics: Conference Series, 2021, 2156, 012228.	0.4	0