

# Carlo Mancini-Terracciano

## List of Publications by Year in descending order

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Version: 2024-02-01

49  
papers

652  
citations

567144

15  
h-index

610775

24  
g-index

49  
all docs

49  
docs citations

49  
times ranked

868  
citing authors

#	ARTICLE	IF	CITATIONS
1	Neutrino physics with the PTOLEMY project: active neutrino properties and the light sterile case. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 047-047.	1.9	85
2	Search for $\hat{1}/2 \hat{1}/4 \hat{\nu} \hat{1}/2 e$ oscillations with the OPERA experiment in the CNGS beam. Journal of High Energy Physics, 2013, 2013, 1.	1.6	58
3	MR-based artificial intelligence model to assess response to therapy in locally advanced rectal cancer. European Journal of Radiology, 2019, 118, 1-9.	1.2	58
4	A novel radioguided surgery technique exploiting $\hat{1}2\hat{\alpha}$ decays. Scientific Reports, 2014, 4, 4401.	1.6	48
5	First ex vivo validation of a radioguided surgery technique with $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll" \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \hat{1}2 \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ -radiation.. Physica Medica, 2016, 32, 1139-1144.	0.4	30
6	Secondary radiation measurements for particle therapy applications: prompt photons produced by $\langle \text{sup} \rangle 4 \langle \text{sup} \rangle \text{He}, \langle \text{sup} \rangle 12 \langle \text{sup} \rangle \text{C}$ and $\langle \text{sup} \rangle 16 \langle \text{sup} \rangle \text{O}$ ion beams in a PMMA target. Physics in Medicine and Biology, 2017, 62, 1438-1455.	1.6	30
7	Radioguided surgery with $\hat{1}2$ radiation: a novel application with Ga68. Scientific Reports, 2018, 8, 16171.	1.6	28
8	Design of a new tracking device for on-line beam range monitor in carbon therapy. Physica Medica, 2017, 34, 18-27.	0.4	25
9	Feasibility of beta-particle radioguided surgery for a variety of $\hat{\alpha}$ nuclear medicine $\hat{\alpha}$ radionuclides. Physica Medica, 2017, 43, 127-133.	0.4	24
10	A design for an electromagnetic filter for precision energy measurements at the tritium endpoint. Progress in Particle and Nuclear Physics, 2019, 106, 120-131.	5.6	24
11	Secondary radiation measurements for particle therapy applications: nuclear fragmentation produced by $\langle \text{sup} \rangle 4 \langle \text{sup} \rangle \text{He}$ ion beams in a PMMA target. Physics in Medicine and Biology, 2017, 62, 1291-1309.	1.6	23
12	Measurement of the neutrino velocity with the OPERA detector in the CNGS beam using the 2012 dedicated data. Journal of High Energy Physics, 2013, 2013, 1.	1.6	21
13	Y3+ embedded in polymeric nanoparticles: Morphology, dimension and stability of composite colloidal system. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 532, 125-131.	2.3	20
14	Review and performance of the Dose Profiler, a particle therapy treatments online monitor. Physica Medica, 2019, 65, 84-93.	0.4	19
15	Secondary radiation measurements for particle therapy applications: charged particles produced by $\langle \text{sup} \rangle 4 \langle \text{sup} \rangle \text{He}$ and $\langle \text{sup} \rangle 12 \langle \text{sup} \rangle \text{C}$ ion beams in a PMMA target at large angle. Physics in Medicine and Biology, 2018, 63, 055018.	1.6	16
16	Characterisation of a $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si4.svg" \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \hat{1}2 \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ detector on positron emitters for medical applications. Physica Medica, 2019, 67, 85-90.	0.4	15
17	The $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll" \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \hat{1}2 \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:math} \rangle$ radio-guided surgery: Method to estimate the minimum injectable activity from ex-vivo test. Physica Medica, 2019, 58, 114-120.	0.4	13
18	Intraoperative probe detecting $\hat{1}2\hat{\alpha}$ 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	An Intraoperative $\beta$ -Detecting Probe for Radio-Guided Surgery in Tumour Resection. IEEE Transactions on Nuclear Science, 2016, 63, 2533-2539.	1.2	9
20	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
21	Noise correlation and decorrelation in arrays of bolometric detectors. Journal of Instrumentation, 2012, 7, P06013-P06013.	0.5	8
22	Radioguided surgery with $^{125}\text{I}$ radiation in pancreatic Neuroendocrine Tumors: a feasibility study. Scientific Reports, 2020, 10, 4015.	1.6	8
23	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
24	Use of a CMOS image sensor for beta-emitting radionuclide measurements. Journal of Instrumentation, 2018, 13, P07003-P07003.	0.5	7
25	Preliminary results coupling $\epsilon$ -Stochastic Mean Field and $\epsilon$ -Boltzmann-Langevin One Body models with Geant4. Physica Medica, 2019, 67, 116-122.	0.4	7
26	Addendum: search for $\nu_{\mu} \leftrightarrow \nu_{\tau}$ oscillations with the OPERA experiment in the CNGS beam. Journal of High Energy Physics, 2013, 2013, 1.	1.6	6
27	Addendum: Measurement of charged particle yields from PMMA irradiated by a 220 MeV/u $^{12}\text{C}$ beam. Physics in Medicine and Biology, 2017, 62, 8483-8494.	1.6	5
28	Mass spectrometry characterization of DOTA-Nimotuzumab conjugate as precursor of an innovative $^{125}\text{I}$ tracer suitable in radio-guided surgery. Journal of Pharmaceutical and Biomedical Analysis, 2018, 156, 8-15.	1.4	5
29	Preliminary results in using Deep Learning to emulate BLOB, a nuclear interaction model. Physica Medica, 2020, 73, 65-72.	0.4	5
30	Validation of Geant4 Nuclear Reaction Models for Hadron Therapy and Preliminary Results with BLOB. IFMBE Proceedings, 2019, , 675-685.	0.2	4
31	Secondary radiation measurements for particle therapy applications: Charged secondaries produced by $^{16}\text{O}$ ion beams in a PMMA target at large angles. Physica Medica, 2019, 64, 45-53.	0.4	4
32	A dedicated tool for PET scanner simulations using FLUKA. , 2013, , .		3
33	A wearable radiation measurement system for collection of patient-specific time-activity data in radiopharmaceutical therapy: system design and monte carlo simulation results. Medical Physics, 2021, , .	1.6	3
34	Development of a radioguided surgery technique with beta- decays in brain tumor resection. Radiotherapy and Oncology, 2016, 118, S39-S40.	0.3	2
35	A novel radioguided surgery technique exploiting beta $\epsilon$ decay. Physica Medica, 2016, 32, 104-105.	0.4	2
36	Use of bremsstrahlung radiation to identify hidden weak $^{125}\text{I}$ sources: feasibility and possible use in radio-guided surgery. Journal of Instrumentation, 2017, 12, P11006-P11006.	0.5	2

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37	Cluster formation in nuclear reactions from mean-field inhomogeneities. Journal of Physics: Conference Series, 2018, 1014, 012008.	0.3	2
38	Radio-Guided Surgery with $\hat{I}^{2\hat{a}}$ Radiation: Tests on Ex-Vivo Specimens. IFMBE Proceedings, 2019, , 693-697.	0.2	2
39	Multimodal evaluation of $^{19}\text{F}$ -BPA internalization in pancreatic cancer cells for boron capture and proton therapy potential applications. Physica Medica, 2022, 94, 75-84.	0.4	2
40	Position sensitive $\hat{I}^{2\hat{a}}$ detector based on p-terphenyl scintillator for medical applications. Journal of Instrumentation, 2018, 13, P07001-P07001.	0.5	1
41	Scintillating Fiber Devices for Particle Therapy Applications. IEEE Transactions on Nuclear Science, 2018, 65, 2054-2060.	1.2	1
42	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
43	Assessment of the Čerenkov light produced in a $\text{PbWO}_4$ crystal by means of the study of the time structure of the signal. , 2008, , .		0
44	127: Development of a technique to speed up the simulation of PET and SPECT. Radiotherapy and Oncology, 2014, 110, S62.	0.3	0
45	174: The recent developments of the FLUKA Monte Carlo code oriented to its applications in hadrontherapy. Radiotherapy and Oncology, 2014, 110, S85.	0.3	0
46	Abstract ID: 61 Validation of Geant4 nuclear reaction models for hadrontherapy and preliminary results with SMF and Blob. Physica Medica, 2017, 42, 12.	0.4	0
47	In-room performance evaluation of a novel online charged secondary particles monitor of light ions PT treatments. , 2018, , .		0
48	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.	1.6	0
49	SU-G-JeP1-13: Innovative Tracking Detector for Dose Monitoring in Hadron Therapy: Realization and Monte Carlo Simulations. Medical Physics, 2016, 43, 3651-3651.	1.6	0