

Francesco Tommasino

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

46
papers

615
citations

12
h-index

24
g-index

50
ext. papers

797
ext. citations

2.8
avg, IF

4.22
L-index

#	Paper	IF	Citations
46	Proton radiobiology. <i>Cancers</i> , 2015 , 7, 353-81	6.6	153
45	New Ions for Therapy. <i>International Journal of Particle Therapy</i> , 2016 , 2, 428-438	1.5	69
44	Hibernation for space travel: Impact on radioprotection. <i>Life Sciences in Space Research</i> , 2016 , 11, 1-9	2.4	44
43	A DNA double-strand break kinetic rejoining model based on the local effect model. <i>Radiation Research</i> , 2013 , 180, 524-38	3.1	36
42	Model-based approach for quantitative estimates of skin, heart, and lung toxicity risk for left-side photon and proton irradiation after breast-conserving surgery. <i>Acta Oncologica</i> , 2017 , 56, 730-736	3.2	32
41	Organs at risk tolerance and dose limits for head and neck cancer re-irradiation: A literature review. <i>Oral Oncology</i> , 2019 , 98, 35-47	4.4	29
40	Proton beam characterization in the experimental room of the Trento Proton Therapy facility. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2017 , 869, 15-20	1.2	27
39	Induction and Processing of the Radiation-Induced Gamma-H2AX Signal and Its Link to the Underlying Pattern of DSB: A Combined Experimental and Modelling Study. <i>PLoS ONE</i> , 2015 , 10, e0129416	3.7	25
38	Impact of dose engine algorithm in pencil beam scanning proton therapy for breast cancer. <i>Physica Medica</i> , 2018 , 50, 7-12	2.7	25
37	Modeling Combined Chemotherapy and Particle Therapy for Locally Advanced Pancreatic Cancer. <i>Frontiers in Oncology</i> , 2015 , 5, 145	5.3	21
36	Direct measurement of the 3-dimensional DNA lesion distribution induced by energetic charged particles in a mouse model tissue. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 12396-401	11.5	19
35	Modelling the risk of radiation induced alopecia in brain tumor patients treated with scanned proton beams. <i>Radiotherapy and Oncology</i> , 2020 , 144, 127-134	5.3	16
34	A new facility for proton radiobiology at the Trento proton therapy centre: Design and implementation. <i>Physica Medica</i> , 2019 , 58, 99-106	2.7	11
33	Clinical implementation in proton therapy of multi-field optimization by a hybrid method combining conventional PTV with robust optimization. <i>Physics in Medicine and Biology</i> , 2020 , 65, 045002	3.8	9
32	The HEPD particle detector and the EFD electric field detector for the CSES satellite. <i>Radiation Physics and Chemistry</i> , 2017 , 137, 187-192	2.5	8
31	Potential skin morbidity reduction with intensity-modulated proton therapy for breast cancer with nodal involvement. <i>Acta Oncologica</i> , 2019 , 58, 934-942	3.2	8
30	Development and characterization of aE-TOF detector prototype for the FOOT experiment. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2019 , 916, 116-124	1.2	8

29	Ion charge separation with new generation of nuclear emulsion films. <i>Open Physics</i> , 2019 , 17, 233-240	1.3	7
28	Application of the local effect model to predict DNA double-strand break rejoining after photon and high-LET irradiation. <i>Radiation Protection Dosimetry</i> , 2015 , 166, 66-70	0.9	7
27	Commissioning of GPU Accelerated Monte Carlo Code FRED for Clinical Applications in Proton Therapy. <i>Frontiers in Physics</i> , 2021 , 8,	3.9	6
26	Microdosimetric measurements as a tool to assess potential in-field and out-of-field toxicity regions in proton therapy. <i>Physics in Medicine and Biology</i> , 2020 , 65, 245024	3.8	5
25	Accurate proton treatment planning for pencil beam crossing titanium fixation implants. <i>Physica Medica</i> , 2020 , 70, 28-38	2.7	5
24	Relative stopping power measurements and prosthesis artifacts reduction in proton CT. <i>Physics in Medicine and Biology</i> , 2020 , 65, 225012	3.8	5
23	Proton or photon radiosurgery for cardiac ablation of ventricular tachycardia? Breath and ECG gated robust optimization. <i>Physica Medica</i> , 2020 , 78, 15-31	2.7	5
22	QBeRT: an innovative instrument for qualification of particle beam in real-time. <i>Journal of Instrumentation</i> , 2016 , 11, C11014-C11014	1	4
21	Measurement of ¹² C Fragmentation Cross Sections on C, O, and H in the Energy Range of Interest for Particle Therapy Applications. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2020 , 4, 269-282	4.2	3
20	FOOT: a new experiment to measure nuclear fragmentation at intermediate energies. <i>Perspectives in Science</i> , 2019 , 12, 100415	0.8	3
19	Evaluation of proton beam radiation-induced skin injury in a murine model using a clinical SOBP. <i>PLoS ONE</i> , 2020 , 15, e0233258	3.7	3
18	Transversal dose profile reconstruction for clinical proton beams: A detectors inter-comparison. <i>Physica Medica</i> , 2020 , 70, 133-138	2.7	3
17	An Innovative Proton Tracking System for Qualification of Particle Beam in Real-Time. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2017 , 1, 268-274	4.2	2
16	Space applications of GAGG:Ce scintillators: a study of afterglow emission by proton irradiation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2022 , 513, 33-43	1.2	2
15	Beam characterization and feasibility study for a small animal irradiation platform at clinical proton therapy facilities. <i>Physics in Medicine and Biology</i> , 2020 , 65, 245045	3.8	2
14	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	1.2	2
13	Proof-of-Principle results of proton computed tomography 2016 ,		2
12	In Regard to DeCesaris et al. <i>International Journal of Radiation Oncology Biology Physics</i> , 2019 , 105, 676-677		1

11	Proton pencil beam scanning reduces secondary cancer risk in breast cancer patients with internal mammary chain involvement compared to photon radiotherapy. <i>Radiation Oncology</i> , 2020 , 15, 228	4.2	1
10	FLUKA simulation of target fragmentation in proton therapy. <i>Physica Medica</i> , 2020 , 80, 342-346	2.7	1
9	STUDY FOR A PASSIVE SCATTERING LINE DEDICATED TO RADIOBIOLOGY EXPERIMENTS AT THE TRENTO PROTON THERAPY CENTER. <i>Radiation Protection Dosimetry</i> , 2019 , 183, 274-279	0.9	1
8	The Drift Chamber detector of the FOOT experiment: Performance analysis and external calibration. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2021 , 986, 164756	1.2	1
7	Technical Note: CT calibration for proton treatment planning by cross-calibration with proton CT data. <i>Medical Physics</i> , 2021 , 48, 1349-1355	4.4	1
6	Enhancing the understanding of fragmentation processes in hadrontherapy and radioprotection in space with the FOOT experiment. <i>Physica Scripta</i> , 2021 , 96, 114013	2.6	1
5	The Performance of LiF:Mg-Ti for Proton Dosimetry within the Framework of the MoVe IT Project. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 8263	2.6	1
4	Charge identification of fragments with the emulsion spectrometer of the FOOT experiment. <i>Open Physics</i> , 2021 , 19, 383-394	1.3	0
3	Study of relationship between dose, LET and the risk of brain necrosis after proton therapy for skull base tumors. <i>Radiotherapy and Oncology</i> , 2021 , 163, 143-149	5.3	0
2	Quantification of biological range uncertainties in patients treated at the Krakow proton therapy centre.. <i>Radiation Oncology</i> , 2022 , 17, 50	4.2	0
1	The relevance of DNA damage clustering on the nanometer and micrometer scale for the quantitative prediction of radiation effects. <i>Radiotherapy and Oncology</i> , 2016 , 118, S95-S96	5.3	