

Giacomo Cuttone

List of Publications by Year in descending order

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Version: 2024-02-01

91
papers

6,757
citations

201575

27
h-index

60583

81
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93
all docs

93
docs citations

93
times ranked

10704
citing authors

#	ARTICLE	IF	CITATIONS
1	Measuring breathability and bacterial filtration efficiency of face masks in the pandemic context: A round robin study with proficiency testing among non-accredited laboratories. Measurement: Journal of the International Measurement Confederation, 2022, 189, 110481.	2.5	10
2	The Hallmarks of Glioblastoma: Heterogeneity, Intercellular Crosstalk and Molecular Signature of Invasiveness and Progression. Biomedicines, 2022, 10, 806.	1.4	35
3	The Role of [68Ga]Ga-DOTA-SSTR PET Radiotracers in Brain Tumors: A Systematic Review of the Literature and Ongoing Clinical Trials. Cancers, 2022, 14, 2925.	1.7	12
4	Testing Surgical Face Masks in an Emergency Context: The Experience of Italian Laboratories during the COVID-19 Pandemic Crisis. International Journal of Environmental Research and Public Health, 2021, 18, 1462.	1.2	17
5	The Proton-Boron Reaction Increases the Radiobiological Effectiveness of Clinical Low- and High-Energy Proton Beams: Novel Experimental Evidence and Perspectives. Frontiers in Oncology, 2021, 11, 682647.	1.3	28
6	On the Possibility to Use the Charge Imbalance in Patients Undergoing Radiotherapy: A New Online, In Vivo, Noninvasive Dose Monitoring System. Applied Sciences (Switzerland), 2021, 11, 7005.	1.3	3
7	DNA double-strand breaks in cancer cells as a function of proton linear energy transfer and its variation in time. International Journal of Radiation Biology, 2021, 97, 1-12.	1.0	9
8	Acrometastases to the Hand: A Systematic Review. Medicina (Lithuania), 2021, 57, 950.	0.8	15
9	Radiobiological Outcomes, Microdosimetric Evaluations and Monte Carlo Predictions in Eye Proton Therapy. Applied Sciences (Switzerland), 2021, 11, 8822.	1.3	2
10	The Role of Hypoxia and SRC Tyrosine Kinase in Glioblastoma Invasiveness and Radioresistance. Cancers, 2020, 12, 2860.	1.7	46
11	gSeaGen: The KM3NeT GENIE-based code for neutrino telescopes. Computer Physics Communications, 2020, 256, 107477.	3.0	14
12	A radiobiological study of carbon ions of different linear energy transfer in resistant human malignant cell lines. International Journal of Radiation Biology, 2020, 96, 1400-1412.	1.0	5
13	Biomedical Research Programs at Present and Future High-Energy Particle Accelerators. Frontiers in Physics, 2020, 8, 00380.	1.0	8
14	DNA damage assessment of human breast and lung carcinoma cells irradiated with protons and carbon ions. Journal of Radiation Research and Applied Sciences, 2020, 13, 672-687.	0.7	2
15	Molecular Investigation on a Triple Negative Breast Cancer Xenograft Model Exposed to Proton Beams. International Journal of Molecular Sciences, 2020, 21, 6337.	1.8	24
16	Radiotherapy of Conjunctival Melanoma: Role and Challenges of Brachytherapy, Photon-Beam and Protontherapy. Applied Sciences (Switzerland), 2020, 10, 9071.	1.3	9
17	Evaluation of proton beam radiation-induced skin injury in a murine model using a clinical SOBP. PLoS ONE, 2020, 15, e0233258.	1.1	6
18	ELIMED-ELIMAIA: The First Open User Irradiation Beamline for Laser-Plasma-Accelerated Ion Beams. Frontiers in Physics, 2020, 8, .	1.0	13

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19	Proton Therapy and Src Family Kinase Inhibitor Combined Treatments on U87 Human Glioblastoma Multiforme Cell Line. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4745.	1.8	29
20	Proton-irradiated breast cells: molecular points of view. <i>Journal of Radiation Research</i> , 2019, 60, 451-465.	0.8	14
21	SiCilia—Silicon Carbide Detectors for Intense Luminosity Investigations and Applications. <i>Sensors</i> , 2018, 18, 2289.	2.1	51
22	Diagnostics and Dosimetry Solutions for Multidisciplinary Applications at the ELIMAIA Beamline. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1415.	1.3	12
23	ELIMAIA: A Laser-Driven Ion Accelerator for Multidisciplinary Applications. <i>Quantum Beam Science</i> , 2018, 2, 8.	0.6	49
24	Gene expression profiling of breast cancer cell lines treated with proton and electron radiations. <i>British Journal of Radiology</i> , 2018, 91, 20170934.	1.0	14
25	Time of Flight based diagnostics for high energy laser driven ion beams. <i>Journal of Instrumentation</i> , 2017, 12, C03086-C03086.	0.5	17
26	Overview of the future upgrade of the INFN-LNS superconducting cyclotron. <i>Modern Physics Letters A</i> , 2017, 32, 1740009.	0.5	30
27	Continuous monitoring of noise levels in the Gulf of Catania (Ionian Sea). Study of correlation with ship traffic. <i>Marine Pollution Bulletin</i> , 2017, 121, 97-103.	2.3	29
28	Comparison of human lung cancer cell radiosensitivity after irradiations with therapeutic protons and carbon ions. <i>Experimental Biology and Medicine</i> , 2017, 242, 1015-1024.	1.1	14
29	Clinical and Research Activities at the CATANA Facility of INFN-LNS: From the Conventional Hadrontherapy to the Laser-Driven Approach. <i>Frontiers in Oncology</i> , 2017, 7, 223.	1.3	22
30	Proof-of-Principle results of proton computed tomography. , 2016, , .		2
31	Effects of Ion Irradiation on Seedlings Growth Monitored by Ultraweak Delayed Luminescence. <i>PLoS ONE</i> , 2016, 11, e0167998.	1.1	7
32	Design and Status of the ELIMED Beam Line for Laser-Driven Ion Beams. <i>Applied Sciences (Switzerland)</i> , 2015, 5, 427-445.	1.3	17
33	Design of the ELIMAIA ion collection system. <i>Journal of Instrumentation</i> , 2015, 10, T12001-T12001.	0.5	20
34	Measurement of the atmospheric muon depth intensity relation with the NEMO Phase-2 tower. <i>Astroparticle Physics</i> , 2015, 66, 1-7.	1.9	21
35	Radiosensitivity of human ovarian carcinoma and melanoma cells to \hat{I}^3 -rays and protons. <i>Archives of Medical Science</i> , 2014, 3, 578-586.	0.4	10
36	ELIMED: MEDICAL APPLICATION AT ELI-BEAMLINES. STATUS OF THE COLLABORATION AND FIRST RESULTS. <i>Acta Polytechnica</i> , 2014, 54, 285-289.	0.3	4

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37	Proton range monitoring with in-beam PET: Monte Carlo activity predictions and comparison with cyclotron data. <i>Physica Medica</i> , 2014, 30, 559-569.	0.4	39
38	A proton Computed Tomography based medical imaging system. <i>Journal of Instrumentation</i> , 2014, 9, C12009-C12009.	0.5	19
39	An in-beam PET system for monitoring ion-beam therapy: test on phantoms using clinical 62 MeV protons. <i>Journal of Instrumentation</i> , 2014, 9, C04005-C04005.	0.5	27
40	Radiosensitization of non-small cell lung carcinoma by EGFR inhibition. <i>Nuclear Technology and Radiation Protection</i> , 2014, 29, 233-241.	0.3	1
41	The PRIMA collaboration: Preliminary results in FBP reconstruction of pCT data. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013, 730, 184-190.	0.7	29
42	ELIMED, future hadrontherapy applications of laser-accelerated beams. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013, 730, 174-177.	0.7	32
43	A proton Computed Tomography system for medical applications. <i>Journal of Instrumentation</i> , 2013, 8, C02021-C02021.	0.5	13
44	ELIMED: a new hadron therapy concept based on laser driven ion beams. <i>Proceedings of SPIE</i> , 2013, , .	0.8	13
45	Carbon ions induce DNA double strand breaks and apoptosis in HTB140 melanoma cells. <i>Nuclear Technology and Radiation Protection</i> , 2013, 28, 195-203.	0.3	1
46	Comparative timing performances of S-CVD diamond detectors with different particle beams and readout electronics. , 2012, , .		1
47	ELIMED a new concept of hadrontherapy with laser-driven beams. , 2012, , .		4
48	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
49	Performance of upstream interaction region detectors for the FIRST experiment at GSI. <i>Journal of Instrumentation</i> , 2012, 7, P02006-P02006.	0.5	14
50	Detailed Analysis of Apoptosis and Delayed Luminescence of Human Leukemia Jurkat T Cells after Proton Irradiation and Treatments with Oxidant Agents and Flavonoids. <i>Oxidative Medicine and Cellular Longevity</i> , 2012, 2012, 1-14.	1.9	24
51	Dosimetry Techniques for Ion Beams. <i>Biological and Medical Physics Series</i> , 2012, , 441-455.	0.3	1
52	Variation of Apoptotic Pathway Regulators by Fotemustine and Protons in a Human Melanoma Cell Line. <i>Advanced Science Letters</i> , 2012, 5, 552-559.	0.2	1
53	Tomographic images by proton Computed Tomography system for proton therapy applications. , 2011, , .		7
54	Proton inactivation of melanoma cells enhanced by fotemustine. <i>Radiation Protection Dosimetry</i> , 2011, 143, 503-507.	0.4	1

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55	Non-destructive determination of the silver content in Roman coins (nummi), dated to 308â€“311 A.D., by the combined use of PIXE-alpha, XRF and DPAA techniques. <i>Microchemical Journal</i> , 2011, 97, 286-290.	2.3	32
56	Hadrontherapy: a Geant4-Based Tool for Proton/Ion-Therapy Studies. <i>Progress in Nuclear Science and Technology</i> , 2011, 2, 207-212.	0.3	65
57	Recent Improvements in Geant4 Electromagnetic Physics Models and Interfaces. <i>Progress in Nuclear Science and Technology</i> , 2011, 2, 898-903.	0.3	87
58	Study of a silicon telescope for solid state microdosimetry: Preliminary measurements at the therapeutic proton beam line of CATANA. <i>Radiation Measurements</i> , 2010, 45, 1284-1289.	0.7	30
59	Anti-Tumour Activity of Fotemustine and Protons in Combination with Bevacizumab. <i>Chemotherapy</i> , 2010, 56, 214-222.	0.8	5
60	Characterization of an In-Beam PET Prototype for Proton Therapy With Different Target Compositions. <i>IEEE Transactions on Nuclear Science</i> , 2010, 57, 1563-1569.	1.2	13
61	Characterization of a Silicon Strip Detector and a YAG:Ce Calorimeter for a Proton Computed Radiography Apparatus. <i>IEEE Transactions on Nuclear Science</i> , 2010, 57, 8-16.	1.2	27
62	Response of a radioresistant human melanoma cell line along the proton spread-out Bragg peak. <i>International Journal of Radiation Biology</i> , 2010, 86, 742-751.	1.0	39
63	Hadrontherapy: An open source, Geant4-based application for proton-ion therapy studies. , 2009, , .		5
64	Assembling and test of a proton computed radiography apparatus. , 2009, , .		0
65	Effects of fotemustine or dacarbazine on a melanoma cell line pretreated with therapeutic proton irradiation. <i>Journal of Experimental and Clinical Cancer Research</i> , 2009, 28, 50.	3.5	4
66	A PET Prototype for In-Beam Monitoring of Proton Therapy. <i>IEEE Transactions on Nuclear Science</i> , 2009, 56, 51-56.	1.2	39
67	Assessment of the inhibitory effects of different radiation qualities or chemotherapeutic agents on a human melanoma cell line. <i>Physica Medica</i> , 2008, 24, 187-195.	0.4	10
68	Monte Carlo simulation to evaluate the contamination in an energy modulated carbon ion beam for hadron therapy delivered by cyclotron. <i>Physics in Medicine and Biology</i> , 2008, 53, 6045-6053.	1.6	2
69	Effectiveness of Monoenergetic and Spread-Out Bragg Peak Carbon-Ions for Inactivation of Various Normal and Tumour Human Cell Lines. <i>Journal of Radiation Research</i> , 2008, 49, 597-607.	0.8	55
70	Characterization of an in-beam PET prototype for proton therapy with different target composition. , 2008, , .		0
71	Development of a proton computed radiography apparatus. , 2008, , .		2
72	A PET prototype for in-beam monitoring of proton therapy. , 2007, , .		6

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73	Monte Carlo Studies of a Proton Computed Tomography System. IEEE Transactions on Nuclear Science, 2007, 54, 1487-1491.	1.2	19
74	Prototype Tracking Studies for Proton CT. IEEE Transactions on Nuclear Science, 2007, 54, 140-145.	1.2	29
75	Viability of a Human Melanoma Cell after Single and Combined Treatment with Fotemustine, Dacarbazine, and Proton Irradiation. Annals of the New York Academy of Sciences, 2007, 1095, 154-164.	1.8	7
76	Response of a Human Melanoma Cell Line to Low and High Ionizing Radiation. Annals of the New York Academy of Sciences, 2007, 1095, 165-174.	1.8	22
77	Radiobiological analysis of human melanoma cells on the 62 MeV CATANA proton beam. International Journal of Radiation Biology, 2006, 82, 251-265.	1.0	38
78	Preliminary investigation on the use of the MOSFET dosimeter in proton beams. Physica Medica, 2006, 22, 29-32.	0.4	9
79	A novel superconducting cyclotron for therapy and radioisotope production. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 562, 1009-1012.	0.7	13
80	Geant4 developments and applications. IEEE Transactions on Nuclear Science, 2006, 53, 270-278.	1.2	4,869
81	Cellular and molecular effects of protons: Apoptosis induction and potential implications for cancer therapy. Apoptosis: an International Journal on Programmed Cell Death, 2006, 11, 57-66.	2.2	73
82	Induction and Repair of DNA Double-Strand Breaks in Human Cells: Dephosphorylation of Histone H2AX and its Inhibition by Calyculin A. Radiation Research, 2005, 164, 514-517.	0.7	38
83	Implementation of a new Monte Carlo-GEANT4 Simulation tool for the development of a proton therapy beam line and verification of the related dose distributions. IEEE Transactions on Nuclear Science, 2005, 52, 262-265.	1.2	66
84	A 62-MeV proton beam for the treatment of ocular melanoma at Laboratori Nazionali del Sud-INFN. IEEE Transactions on Nuclear Science, 2004, 51, 860-865.	1.2	123
85	Microdosimetric investigation at the therapeutic proton beam facility of CATANA. Radiation Protection Dosimetry, 2004, 110, 681-686.	0.4	37
86	Optical characterization of a radiochromic film by total reflectance and transmittance measurements. Medical Physics, 2004, 31, 2147-2154.	1.6	12
87	Inactivation of HTB63 human melanoma cells by irradiation with protons and gamma rays. Oncology Reports, 2004, 12, 1323-8.	1.2	4
88	An investigation of the operating characteristics of two PTW diamond detectors in photon and electron beams. Medical Physics, 2002, 29, 248-254.	1.6	70
89	A digital trigger for heavy-ion experiments at LNS. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1995, 362, 472-477.	0.7	0
90	A transputer based high-level digital trigger system for nuclear physics experiments. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1992, 314, 178-184.	0.7	3

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91	Proton beam radiotherapy of locally advanced or recurrent conjunctival squamous cell carcinoma: experience of the CATANA Centre. <i>Journal of Radiotherapy in Practice</i> , 0, , 1-8.	0.2	3