

Etienne Testa

List of Publications by Year in descending order

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42
papers

621
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686830

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44
all docs

44
docs citations

44
times ranked

555
citing authors

#	ARTICLE	IF	CITATIONS
1	Estimate of the Biological Dose in Hadrontherapy Using GATE. <i>Cancers</i> , 2022, 14, 1667.	1.7	4
2	Monte Carlo simulations of nanodosimetry and radiolytic species production for monoenergetic proton and electron beams: Benchmarking of GEANT4â€œDNA and LPCHEM codes. <i>Medical Physics</i> , 2022, , .	1.6	3
3	Relative stopping power resolution in time-of-flight proton CT. <i>Physics in Medicine and Biology</i> , 2022, 67, 165004.	1.6	0
4	Influence of gold nanoparticles embedded in water on nanodosimetry for keV photon irradiation. <i>Medical Physics</i> , 2021, 48, 1874-1883.	1.6	8
5	X-ray beam induced current analysis of CVD diamond detectors in the perspective of a beam tagging hodoscope development for hadrontherapy on-line monitoring. <i>Diamond and Related Materials</i> , 2021, 112, 108236.	1.8	2
6	Characterization of a beam-tagging hodoscope for hadrontherapy monitoring. <i>Journal of Instrumentation</i> , 2021, 16, P02028-P02028.	0.5	5
7	Advanced Monte Carlo simulations of emission tomography imaging systems with GATE. <i>Physics in Medicine and Biology</i> , 2021, 66, 10TR03.	1.6	82
8	Influence of sub-nanosecond time of flight resolution for online range verification in proton therapy using the line-cone reconstruction in Compton imaging. <i>Physics in Medicine and Biology</i> , 2021, 66, 125012.	1.6	6
9	A time-of-flight-based reconstruction for real-time prompt-gamma imaging in proton therapy. <i>Physics in Medicine and Biology</i> , 2021, 66, 135003.	1.6	10
10	Energy-adaptive calculation of the most likely path in proton CT. <i>Physics in Medicine and Biology</i> , 2021, 66, 20NT02.	1.6	0
11	Monitoring Ion Beam Therapy With a Compton Camera: Simulation Studies of the Clinical Feasibility. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2020, 4, 218-232.	2.7	26
12	CCMod: a GATE module for Compton camera imaging simulation. <i>Physics in Medicine and Biology</i> , 2020, 65, 055004.	1.6	19
13	Determination of the Effective Local Lethal Function for the NanOx Model. <i>Radiation Research</i> , 2020, 193, 331.	0.7	8
14	Monte Carlo simulation of free radical production under keV photon irradiation of gold nanoparticle aqueous solution. Part I: Global primary chemical boost. <i>Radiation Physics and Chemistry</i> , 2020, 172, 108790.	1.4	6
15	Ultra-fast prompt gamma detection in single proton counting regime for range monitoring in particle therapy. <i>Physics in Medicine and Biology</i> , 2020, 65, 245033.	1.6	17
16	Intercomparison of dose enhancement ratio and secondary electron spectra for gold nanoparticles irradiated by X-rays calculated using multiple Monte Carlo simulation codes. <i>Physica Medica</i> , 2020, 69, 147-163.	0.4	42
17	On the Role of Single Particle Irradiation and Fast Timing for Efficient Online-Control in Particle Therapy. <i>Frontiers in Physics</i> , 2020, 8, .	1.0	6
18	A 100 ps TOF Detection System for On-Line Range-Monitoring in Hadrontherapy. , 2019, , .		2

#	ARTICLE	IF	CITATIONS
19	Comparison of biophysical models with experimental data for three cell lines in response to irradiation with monoenergetic ions. <i>Physics and Imaging in Radiation Oncology</i> , 2019, 12, 17-21.	1.2	7
20	Relationship between radioadaptive response and individual radiosensitivity to low doses of gamma radiation: an extended study of chromosome damage in blood lymphocytes of three donors. <i>International Journal of Radiation Biology</i> , 2018, 94, 54-61.	1.0	7
21	Study of the Influence of NanOx Parameters. <i>Cancers</i> , 2018, 10, 87.	1.7	13
22	Large surface gamma cameras for medical imaging: characterization of the bismuth germanate blocks. <i>Journal of Instrumentation</i> , 2018, 13, P08018-P08018.	0.5	3
23	A cost-effective monitoring technique in particle therapy via uncollimated prompt gamma peak integration. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	39
24	Considerations on the miniaturization of detectors for in vivo dosimetry in radiotherapy: A Monte Carlo study. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017, 399, 20-27.	0.6	8
25	Assessment of Geant4 Prompt-Gamma Emission Yields in the Context of Proton Therapy Monitoring. <i>Frontiers in Oncology</i> , 2016, 6, 10.	1.3	19
26	Influence of Dose Rate on the Cellular Response to Low- and High-LET Radiations. <i>Frontiers in Oncology</i> , 2016, 6, 58.	1.3	7
27	Experimental Comparison of Knife-Edge and Multi-Parallel Slit Collimators for Prompt Gamma Imaging of Proton Pencil Beams. <i>Frontiers in Oncology</i> , 2016, 6, 156.	1.3	11
28	Probabilistic models and numerical calculation of system matrix and sensitivity in list-mode MLEM 3D reconstruction of Compton camera images. <i>Physics in Medicine and Biology</i> , 2016, 61, 243-264.	1.6	42
29	Modeling cell response to low doses of photon irradiation: Part 2 application to radiation-induced chromosomal aberrations in human carcinoma cells. <i>Radiation and Environmental Biophysics</i> , 2016, 55, 31-40.	0.6	2
30	Modeling cell response to low doses of photon irradiation Part 1: on the origin of fluctuations. <i>Radiation and Environmental Biophysics</i> , 2016, 55, 19-30.	0.6	6
31	Technical Note: Experimental carbon ion range verification in inhomogeneous phantoms using prompt gammas. <i>Medical Physics</i> , 2015, 42, 2342-2346.	1.6	15
32	Biological systems: from water radiolysis to carbon ion radiotherapy. <i>Journal of Physics: Conference Series</i> , 2015, 629, 012004.	0.3	2
33	Collimated prompt gamma TOF measurements with multi-slit multi-detector configurations. <i>Journal of Instrumentation</i> , 2015, 10, P01011-P01011.	0.5	27
34	Four-dimensional radiotherapeutic dose calculation using biomechanical respiratory motion description. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2014, 9, 449-457.	1.7	9
35	Low Statistics Reconstruction of the Compton Camera Point Spread Function in 3D Prompt-Gamma Imaging of Ion Beam Therapy. <i>IEEE Transactions on Nuclear Science</i> , 2013, 60, 3355-3363.	1.2	17
36	Electron density resolution determination and systematic uncertainties in proton computed tomography (pCT). , 2012, , .		0

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37	Design Study of the Absorber Detector of a Compton Camera for On-Line Control in Ion Beam Therapy. IEEE Transactions on Nuclear Science, 2012, 59, 1850-1855.	1.2	24
38	Monte Carlo nuclear models evaluation and improvements for real-time prompt gamma ray monitoring in proton and carbon therapy. , 2012, , .		0
39	Image reconstruction for Compton camera applied to 3D prompt γ imaging during ion beam therapy. , 2011, , .		3
40	Real-time monitoring of the Bragg-peak position in ion therapy by means of single photon detection. Radiation and Environmental Biophysics, 2010, 49, 337-343.	0.6	83
41	Monte Carlo Simulations of Prompt-Gamma Emission During Carbon Ion Irradiation. IEEE Transactions on Nuclear Science, 2010, 57, 2768-2772.	1.2	31
42	Detector characterization for an inline PET scanner in hadrontherapy. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 571, 396-398.	0.7	0