

Luc Simon

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.

28
papers

1,935
citations

14
h-index

35
g-index

35
ext. papers

2,456
ext. citations

1.8
avg, IF

3.09
L-index

#	Paper	IF	Citations
28	GATE: a simulation toolkit for PET and SPECT. <i>Physics in Medicine and Biology</i> , 2004 , 49, 4543-61	3.8	1239
27	GATE: a Geant4-based simulation platform for PET and SPECT integrating movement and time management. <i>IEEE Transactions on Nuclear Science</i> , 2003 , 50, 1516-1521	1.7	140
26	The ClearPET project: development of a 2nd generation high-performance small animal PET scanner. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2005 , 537, 307-311	1.2	102
25	Integration method of 3D MR spectroscopy into treatment planning system for glioblastoma IMRT dose painting with integrated simultaneous boost. <i>Radiation Oncology</i> , 2013 , 8, 1	4.2	95
24	Monte Carlo simulation in PET and SPECT instrumentation using GATE. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2004 , 527, 180-189	1.2	63
23	Reduction of organ motion effects in IMRT and conformal 3D radiation delivery by using gating and tracking techniques. <i>Cancer Radiotherapie: Journal De La Societe Francaise De Radiotherapie Oncologique</i> , 2006 , 10, 269-82	1.3	60
22	The ClearPET project. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2004 , 527, 171-174	1.2	29
21	Lung volume assessment for a cross-comparison of two breathing-adapted techniques in radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2005 , 63, 602-9	4	25
20	Total body irradiation using Helical Tomotherapy: Treatment technique, dosimetric results and initial clinical experience. <i>Cancer Radiotherapie: Journal De La Societe Francaise De Radiotherapie Oncologique</i> , 2018 , 22, 17-24	1.3	22
19	Dosimetric comparison of free-breathing and deep inspiration breath-hold radiotherapy for lung cancer. <i>Strahlentherapie Und Onkologie</i> , 2012 , 188, 582-9	4.3	22
18	Initial evaluation of a four-dimensional computed tomography system using a programmable motor. <i>Journal of Applied Clinical Medical Physics</i> , 2006 , 7, 50-65	2.3	21
17	Virtual bolus for total body irradiation treated with helical tomotherapy. <i>Journal of Applied Clinical Medical Physics</i> , 2015 , 16, 164-176	2.3	17
16	Simulation of time curves in small animal PET using GATE. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2004 , 527, 190-194	1.2	15
15	Image reconstruction for the ClearPET-Neuro. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2006 , 569, 381-385 ^{1.2}		13
14	Monte Carlo dose calculation in presence of low-density media: Application to lung SBRT treated during DIBH. <i>Physica Medica</i> , 2017 , 41, 46-52	2.7	10
13	Evolution of the GATE project: new results and developments. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2007 , 172, 101-103		9
12	GATE, a Geant4-based simulation platform for PET integrating movement and time management		4

11	The ClearPET/spl trade/ LSO/LuYAP phoswich scanner: a high performance small animal PET system 2003 ,		3
10	A study of the interplay effect for VMAT SBRT using a four-axes motion phantom. <i>Journal of Applied Clinical Medical Physics</i> , 2020 , 21, 208-215	2.3	3
9	PO-0804: Relative dosimetry evaluation for small multileaf collimator fields on a TrueBeam linear accelerator. <i>Radiotherapy and Oncology</i> , 2017 , 123, S429	5.3	2
8	Towards the standardization of the absorbed dose report mode in high energy photon beams. <i>Physics in Medicine and Biology</i> , 2021 , 66, 045009	3.8	2
7	Automation in radiotherapy treatment planning: Examples of use in clinical practice and future trends for a complete automated workflow. <i>Cancer Radiotherapie: Journal De La Societe Francaise De Radiotherapie Oncologique</i> , 2021 , 25, 617-622	1.3	2
6	36 Monte Carlo simulation of absorbed dose distribution for electron beam using GATE/GEANT4. <i>Physica Medica</i> , 2018 , 56, 21	2.7	1
5	A study of the interplay effect in radiation therapy using a Monte-Carlo model. <i>Physica Medica</i> , 2021 , 87, 73-82	2.7	0
4	Technical note: GAMMORA, a free, open-source, and validated GATE-based model for Monte-Carlo simulations of the Varian TrueBeam. <i>Physica Medica</i> , 2021 , 89, 211-218	2.7	0
3	Artificial intelligence for quality assurance in radiotherapy. <i>Cancer Radiotherapie: Journal De La Societe Francaise De Radiotherapie Oncologique</i> , 2021 , 25, 623-626	1.3	0
2	10 Monte Carlo simulation of portal images for SBRT EPID-based dosimetry. <i>Physica Medica</i> , 2019 , 68, 6-7	2.7	
1	37 Evaluation of the absorbed dose reporting mode of the AAA and AXB algorithms and the Monte-Carlo code GATE in high and low density media. <i>Physica Medica</i> , 2018 , 56, 21-22	2.7	