Luc Simon

List of Publications by Year in Descending Order

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	A study of the interplay effect in radiation therapy using a Monte-Carlo model. *Physica Medica*, **2021**, 87, 73-82	2.7	0
27	Towards the standardization of the absorbed dose report mode in high energy photon beams. *Physics in Medicine and Biology*, **2021**, 66, 045009	3.8	2
26	Technical note: GAMMORA, a free, open-source, and validated GATE-based model for Monte-Carlo simulations of the Varian TrueBeam. *Physica Medica*, **2021**, 89, 211-218	2.7	0
25	Artificial intelligence for quality assurance in radiotherapy. *Cancer Radiotherapie: Journal De La Societe Francaise De Radiotherapie Oncologique*, **2021**, 25, 623-626	1.3	0
24	Automation in radiotherapy treatment planning: Examples of use in clinical practice and future trends for a complete automated workflow. *Cancer Radiotherapie: Journal De La Societe Francaise De Radiotherapie Oncologique*, **2021**, 25, 617-622	1.3	2
23	A study of the interplay effect for VMAT SBRT using a four-axes motion phantom. *Journal of Applied Clinical Medical Physics*, **2020**, 21, 208-215	2.3	3
22	10 Monte Carlo simulation of portal images for SBRT EPID-based dosimetry. *Physica Medica*, **2019**, 68, 6-7	2.7	
21	Total body irradiation using Helical Tomotherapy: Treatment technique, dosimetric results and initial clinical experience. *Cancer Radiotherapie: Journal De La Societe Francaise De Radiotherapie Oncologique*, **2018**, 22, 17-24	1.3	22
20	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. *Physica Medica*, **2018**, 56, 21-22	2.7	
19	36 Monte Carlo simulation of absorbed dose distribution for electron beam using GATE/GEANT4. *Physica Medica*, **2018**, 56, 21	2.7	1
18	Monte Carlo dose calculation in presence of low-density media: Application to lung SBRT treated during DIBH. *Physica Medica*, **2017**, 41, 46-52	2.7	10
17	PO-0804: Relative dosimetry evaluation for small multileaf collimator fields on a TrueBeam linear accelerator. *Radiotherapy and Oncology*, **2017**, 123, S429	5.3	2
16	Virtual bolus for total body irradiation treated with helical tomotherapy. *Journal of Applied Clinical Medical Physics*, **2015**, 16, 164-176	2.3	17
15	Integration method of 3D MR spectroscopy into treatment planning system for glioblastoma IMRT dose painting with integrated simultaneous boost. *Radiation Oncology*, **2013**, 8, 1	4.2	95
14	Dosimetric comparison of free-breathing and deep inspiration breath-hold radiotherapy for lung cancer. *Strahlentherapie Und Onkologie*, **2012**, 188, 582-9	4.3	22
13	Evolution of the GATE project: new results and developments. *Nuclear Physics, Section B, Proceedings Supplements*, **2007**, 172, 101-103		9
12	Image reconstruction for the ClearPET Neuro. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2006**, 569, 381-385	1.2	13

11	Reduction of organ motion effects in IMRT and conformal 3D radiation delivery by using gating and tracking techniques. *Cancer Radiotherapie: Journal De La Societe Francaise De Radiotherapie Oncologique*, **2006**, 10, 269-82	1.3	60
10	Initial evaluation of a four-dimensional computed tomography system using a programmable motor. *Journal of Applied Clinical Medical Physics*, **2006**, 7, 50-65	2.3	21
9	Lung volume assessment for a cross-comparison of two breathing-adapted techniques in radiotherapy. *International Journal of Radiation Oncology Biology Physics*, **2005**, 63, 602-9	4	25
8	The ClearPET project: development of a 2nd generation high-performance small animal PET scanner. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2005**, 537, 307-311	1.2	102
7	GATE: a simulation toolkit for PET and SPECT. *Physics in Medicine and Biology*, **2004**, 49, 4543-61	3.8	1239
6	Monte Carlo simulation in PET and SPECT instrumentation using GATE. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2004**, 527, 180-189	1.2	63
5	Simulation of time curves in small animal PET using GATE. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2004**, 527, 190-194	1.2	15
4	The ClearPET project. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2004**, 527, 171-174	1.2	29
3	The ClearPET/spl trade/ LSO/LuYAP phoswich scanner: a high performance small animal PET system **2003**,		3
2	GATE: a Geant4-based simulation platform for PET and SPECT integrating movement and time management. *IEEE Transactions on Nuclear Science*, **2003**, 50, 1516-1521	1.7	140
1	GATE, a Geant4-based simulation platform for PET integrating movement and time management		4