

Luc Simon

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

2,726
citations

516215

16
h-index

500791

28
g-index

35
all docs

35
docs citations

35
times ranked

2289
citing authors

#	ARTICLE	IF	CITATIONS
1	GATE: a simulation toolkit for PET and SPECT. <i>Physics in Medicine and Biology</i> , 2004, 49, 4543-4561.	1.6	1,765
2	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.	1.2	176
3	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.	1.2	127
4	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.	0.7	121
5	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, 269-282.	0.6	93
6	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.	0.7	80
7	Dosimetric comparison of free-breathing and deep inspiration breath-hold radiotherapy for lung cancer. <i>Strahlentherapie Und Onkologie</i> , 2012, 188, 582-591.	1.0	35
8	The ClearPET project. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2004, 527, 171-174.	0.7	31
9	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, 602-609.	0.4	30
10	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.	0.6	30
11	Virtual bolus for total body irradiation treated with helical tomotherapy. <i>Journal of Applied Clinical Medical Physics</i> , 2015, 16, 164-176.	0.8	24
12	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.	0.8	21
13	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.	0.7	18
14	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.	0.7	18
15	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.	0.4	15
16	Evolution of the GATE project: new results and developments. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2007, 172, 101-103.	0.5	14
17	GATE, a Geant4-based simulation platform for PET integrating movement and time management. , 0, , .		11
18	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.	0.8	9

#	ARTICLE	IF	CITATIONS
19	The ClearPET/spl trade/ LSO/LuYAP phoswich scanner: a high performance small animal PET system. , 2003, , .		7
20	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.	0.6	7
21	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.	0.4	6
22	Artificial intelligence for quality assurance in radiotherapy. Cancer Radiotherapie: Journal De La Societe Francaise De Radiotherapie Oncologique, 2021, 25, 623-626.	0.6	5
23	PO-0804: Relative dosimetry evaluation for small multileaf collimator fields on a TrueBeam linear accelerator. Radiotherapy and Oncology, 2017, 123, S429.	0.3	4
24	Towards the standardization of the absorbed dose report mode in high energy photon beams. Physics in Medicine and Biology, 2021, 66, 045009.	1.6	3
25	A study of the interplay effect in radiation therapy using a Monte-Carlo model. Physica Medica, 2021, 87, 73-82.	0.4	3
26	36 Monte Carlo simulation of absorbed dose distribution for electron beam using GATE/GEANT4. Physica Medica, 2018, 56, 21.	0.4	1
27	179 Quality Assurance of 4D-CT using a programmable motorized phantom. Radiotherapy and Oncology, 2005, 76, S91.	0.3	0
28	Towards Accurate and Robust MRSI Quantification to Improve the Radiation Therapy Treatment of GBM. International Journal of Radiation Oncology Biology Physics, 2014, 90, S793.	0.4	0
29	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.	0.4	0
30	10 Monte Carlo simulation of portal images for SBRT EPID-based dosimetry. Physica Medica, 2019, 68, 6-7.	0.4	0
31	Field output correction factors and electron fluence perturbation of the microSilicon and microSilicon X detectors. Physics in Medicine and Biology, 2022, 67, 08NT01.	1.6	0