

Guillaume Janssens

List of Publications by Year in descending order

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46
papers

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citations

331670
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docs citations

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times ranked

1597
citing authors

#	ARTICLE	IF	CITATIONS
1	First Clinical Investigation of Cone Beam Computed Tomography and Deformable Registration for Adaptive Proton Therapy for Lung Cancer. International Journal of Radiation Oncology Biology Physics, 2016, 95, 549-559.	0.8	172
2	Prompt Gamma Imaging for In-Vivo Range Verification of Pencil Beam Scanning Proton Therapy. International Journal of Radiation Oncology Biology Physics, 2017, 99, 210-218.	0.8	127
3	Investigating CT to CBCT image registration for head and neck proton therapy as a tool for daily dose recalculation. Medical Physics, 2015, 42, 1354-1366.	3.0	115
4	First test of the prompt gamma ray timing method with heterogeneous targets at a clinical proton therapy facility. Physics in Medicine and Biology, 2015, 60, 6247-6272.	3.0	83
5	Evaluation of nonrigid registration models for interfraction dose accumulation in radiotherapy. Medical Physics, 2009, 36, 4268-4276.	3.0	73
6	Diffeomorphic Registration of Images with Variable Contrast Enhancement. International Journal of Biomedical Imaging, 2011, 2011, 1-16.	3.9	70
7	Tumour delineation and cumulative dose computation in radiotherapy based on deformable registration of respiratory correlated CT images of lung cancer patients. Radiotherapy and Oncology, 2007, 85, 232-238.	0.6	64
8	Experimental observation of acoustic emissions generated by a pulsed proton beam from a hospital-based clinical cyclotron. Medical Physics, 2015, 42, 7090-7097.	3.0	56
9	Evaluation of motion mitigation using abdominal compression in the clinical implementation of pencil beam scanning proton therapy of liver tumors. Medical Physics, 2017, 44, 703-712.	3.0	56
10	The first prototype of spot-scanning proton arc treatment delivery. Radiotherapy and Oncology, 2019, 137, 130-136.	0.6	55
11	Phantom based evaluation of CT to CBCT image registration for proton therapy dose recalculation. Physics in Medicine and Biology, 2015, 60, 595-613.	3.0	49
12	Assessment of tumor motion reproducibility with audio-visual coaching through successive 4D CT sessions. Journal of Applied Clinical Medical Physics, 2014, 15, 47-56.	1.9	33
13	Validation and application of a fast Monte Carlo algorithm for assessing the clinical impact of approximations in analytical dose calculations for pencil beam scanning proton therapy. Medical Physics, 2018, 45, 5631-5642.	3.0	32
14	Residual metabolic tumor activity after chemo-radiotherapy is mainly located in initially high FDG uptake areas in rectal cancer. Radiotherapy and Oncology, 2011, 99, 137-141.	0.6	30
15	Validation of the mid-position strategy for lung tumors in helical TomoTherapy. Radiotherapy and Oncology, 2014, 110, 529-537.	0.6	30
16	Reprogramming of tumor metabolism by targeting mitochondria improves tumor response to irradiation. Acta Oncologica, 2015, 54, 266-274.	1.8	30
17	Motion-aware temporal regularization for improved 4D cone-beam computed tomography. Physics in Medicine and Biology, 2016, 61, 6856-6877.	3.0	29
18	Time-resolved imaging of prompt-gamma rays for proton range verification using a knife-edge slit camera based on digital photon counters. Physics in Medicine and Biology, 2015, 60, 6063-6085.	3.0	25

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19	Sensitivity of a prompt-gamma slit-camera to detect range shifts for proton treatment verification. <i>Radiotherapy and Oncology</i> , 2017, 125, 534-540.	0.6	25
20	Methodology for adaptive and robust FDG-PET escalated dose painting by numbers in head and neck tumors. <i>Acta Oncologica</i> , 2016, 55, 217-225.	1.8	24
21	Helical tomotherapy for SIB and hypo-fractionated treatments in lung carcinomas: A 4D Monte Carlo treatment planning study. <i>Radiotherapy and Oncology</i> , 2012, 104, 173-180.	0.6	23
22	First-In-Human Validation of CT-Based Proton Range Prediction Using Prompt Gamma Imaging in Prostate Cancer Treatments. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021, 111, 1033-1043.	0.8	23
23	A comprehensive evaluation of the accuracy of CBCT and deformable registration based dose calculation in lung proton therapy. <i>Biomedical Physics and Engineering Express</i> , 2017, 3, 015003.	1.2	22
24	Technical Note: Monte Carlo methods to comprehensively evaluate the robustness of 4D treatments in proton therapy. <i>Medical Physics</i> , 2019, 46, 4676-4684.	3.0	22
25	Evolution of [¹⁸ F]fluorodeoxyglucose and [¹⁸ F]fluoroazomycin arabinoside PET uptake distributions in lung tumours during radiation therapy. <i>Acta Oncologica</i> , 2017, 56, 516-524.	1.8	17
26	Correlation analysis of [¹⁸ F]fluorodeoxyglucose and [¹⁸ F]fluoroazomycin arabinoside uptake distributions in lung tumours during radiation therapy. <i>Acta Oncologica</i> , 2017, 56, 1181-1188.	1.8	17
27	Thermoacoustic range verification during pencil beam delivery of a clinical plan to an abdominal imaging phantom. <i>Radiotherapy and Oncology</i> , 2021, 159, 224-230.	0.6	16
28	Evaluation of the radiobiological impact of anatomic modifications during radiation therapy for head and neck cancer: Can we simply summate the dose?. <i>Radiotherapy and Oncology</i> , 2010, 96, 131-138.	0.6	15
29	Generation of prescriptions robust against geometric uncertainties in dose painting by numbers. <i>Acta Oncologica</i> , 2015, 54, 253-260.	1.8	15
30	Effect of continuous positive airway pressure administration during lung stereotactic ablative radiotherapy: a comparative planning study. <i>Strahlentherapie Und Onkologie</i> , 2018, 194, 591-599.	2.0	15
31	An individualized radiation dose escalation trial in non-small cell lung cancer based on FDG-PET imaging. <i>Strahlentherapie Und Onkologie</i> , 2017, 193, 812-822.	2.0	14
32	Sensitivity study of prompt gamma imaging of scanned beam proton therapy in heterogeneous anatomies. <i>Radiotherapy and Oncology</i> , 2016, 118, 562-567.	0.6	12
33	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.	2.8	11
34	Prompt gamma imaging for the identification of regional proton range deviations due to anatomic change in a heterogeneous region. <i>British Journal of Radiology</i> , 2020, 93, 20190619.	2.2	7
35	Anthropomorphic lung phantom based validation of in-room proton therapy 4D-CBCT image correction for dose calculation. <i>Zeitschrift Fur Medizinische Physik</i> , 2020, 32, 74-74.	1.5	7
36	Toward MR-integrated proton therapy: modeling the potential benefits for liver tumors. <i>Physics in Medicine and Biology</i> , 2021, 66, 195004.	3.0	7

#	ARTICLE	IF	CITATIONS
37	Technical Note: 4D cone-beam CT reconstruction from sparse-view CBCT data for daily motion assessment in pencil beam scanned proton therapy (PBSâ€PT). Medical Physics, 2020, 47, 6381-6387.	3.0	6
38	Validation of proton dose calculation on scatter corrected 4D cone beam computed tomography using a porcine lung phantom. Physics in Medicine and Biology, 2021, 66, 175022.	3.0	6
39	Correction of Geometrical Effects of a Knife-Edge Slit Camera for Prompt Gamma-Based Range Verification in Proton Therapy. Instruments, 2018, 2, 25.	1.8	4
40	Evaluation of continuous beam rescanning versus pulsed beam in pencil beam scanned proton therapy for lung tumours. Physics in Medicine and Biology, 2020, 65, 23NT01.	3.0	4
41	Impact of motion induced artifacts on automatic registration of lung tumors in Tomotherapy. Physica Medica, 2015, 31, 963-968.	0.7	3
42	Classification of the source of treatment deviation in proton therapy using promptâ€gamma imaging information. Medical Physics, 2020, 47, 5102-5111.	3.0	3
43	Accounting for prompt gamma emission and detection for range verification in proton therapy treatment planning. Physics in Medicine and Biology, 2021, 66, 055005.	3.0	3
44	3D Dose Distribution for GYN with Dose Accumulation between Insertions: Feasibility Study. Brachytherapy, 2013, 12, S22.	0.5	2
45	Estimation of respiratory phases during proton radiotherapy from a 4D-CT and Prompt gamma detection profiles. Physica Medica, 2019, 64, 33-39.	0.7	1
46	Estimating patient specific uncertainty parameters for adaptive treatment re-planning in proton therapy using <i>in vivo</i> range measurements and Bayesian inference: application to setup and stopping power errors. Physics in Medicine and Biology, 2016, 61, 6281-6296.	3.0	0