Guillaume Janssens

List of Publications by Year
in descending order

46 papers	1,453 citations	377584 21 h-index	371746 37 g-index
46 all docs	46 docs citations	46 times ranked	1737 citing authors

#	Article	IF	Citations
1	Accounting for prompt gamma emission and detection for range verification in proton therapy treatment planning. Physics in Medicine and Biology, 2021, 66, 055005.	1.6	3
2	Thermoacoustic range verification during pencil beam delivery of a clinical plan to an abdominal imaging phantom. Radiotherapy and Oncology, 2021, 159, 224-230.	0.3	16
3	First-In-Human Validation of CT-Based Proton Range Prediction Using Prompt Gamma Imaging in Prostate Cancer Treatments. International Journal of Radiation Oncology Biology Physics, 2021, 111, 1033-1043.	0.4	23
4	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.	1.6	6
5	Toward MR-integrated proton therapy: modeling the potential benefits for liver tumors. Physics in Medicine and Biology, 2021, 66, 195004.	1.6	7
6	Prompt gamma imaging for the identification of regional proton range deviations due to anatomic change in a heterogeneous region. British Journal of Radiology, 2020, 93, 20190619.	1.0	7
7	Technical Note: 4D coneâ€beam CT reconstruction from sparseâ€view CBCT data for daily motion assessment in pencil beam scanned proton therapy (PBSâ€PT). Medical Physics, 2020, 47, 6381-6387.	1.6	6
8	Classification of the source of treatment deviation in proton therapy using promptâ€gamma imaging information. Medical Physics, 2020, 47, 5102-5111.	1.6	3
9	Anthropomorphic lung phantom based validation of in-room proton therapy 4D-CBCT image correction for dose calculation. Zeitschrift Fur Medizinische Physik, 2020, 32, 74-74.	0.6	7
10	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.	1.6	4
11	Technical Note: Monte Carlo methods to comprehensively evaluate the robustness of 4D treatments in proton therapy. Medical Physics, 2019, 46, 4676-4684.	1.6	22
12	Estimation of respiratory phases during proton radiotherapy from a 4D-CT and Prompt gamma detection profiles. Physica Medica, 2019, 64, 33-39.	0.4	1
13	The first prototype of spot-scanning proton arc treatment delivery. Radiotherapy and Oncology, 2019, 137, 130-136.	0.3	55
14	Correction of Geometrical Effects of a Knife-Edge Slit Camera for Prompt Gamma-Based Range Verification in Proton Therapy. Instruments, 2018, 2, 25.	0.8	4
15	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.	1.6	32
16	Effect of continuous positive airway pressure administration during lung stereotactic ablative radiotherapy: aÂcomparative planning study. Strahlentherapie Und Onkologie, 2018, 194, 591-599.	1.0	15
17	A comprehensive evaluation of the accuracy of CBCT and deformable registration based dose calculation in lung proton therapy. Biomedical Physics and Engineering Express, 2017, 3, 015003.	0.6	22
18	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.	1.6	56

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19	Evolution of [¹⁸F]fluorodeoxyglucose and [¹⁸F]fluoroazomycin arabinoside PET uptake distributions in lung tumours during radiation therapy. Acta OncolÃ³gica, 2017, 56, 516-524.	0.8	17
20	Prompt Gamma Imaging for InÂVivo Range Verification of Pencil Beam Scanning Proton Therapy. International Journal of Radiation Oncology Biology Physics, 2017, 99, 210-218.	0.4	127
21	Correlation analysis of [¹⁸F]fluorodeoxyglucose and [¹⁸F]fluoroazomycin arabinoside uptake distributions in lung tumours during radiation therapy. Acta OncolÃ³gica, 2017, 56, 1181-1188.	0.8	17
22	An individualized radiation dose escalation trial in non-small cell lung cancer based on FDG-PET imaging. Strahlentherapie Und Onkologie, 2017, 193, 812-822.	1.0	14
23	Sensitivity of a prompt-gamma slit-camera to detect range shifts for proton treatment verification. Radiotherapy and Oncology, 2017, 125, 534-540.	0.3	25
24	Experimental Comparison of Knife-Edge and Multi-Parallel Slit Collimators for Prompt Gamma Imaging of Proton Pencil Beams. Frontiers in Oncology, 2016, 6, 156.	1.3	11
25	Estimating patient specific uncertainty parameters for adaptive treatment re-planning in proton therapy usingin vivorange measurements and Bayesian inference: application to setup and stopping power errors. Physics in Medicine and Biology, 2016, 61, 6281-6296.	1.6	0
26	Motion-aware temporal regularization for improved 4D cone-beam computed tomography. Physics in Medicine and Biology, 2016, 61, 6856-6877.	1.6	29
27	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.	0.4	172
28	Sensitivity study of prompt gamma imaging of scanned beam proton therapy in heterogeneous anatomies. Radiotherapy and Oncology, 2016, 118, 562-567.	0.3	12
29	Methodology for adaptive and robust FDG-PET escalated dose painting by numbers in head and neck tumors. Acta OncolÃ³gica, 2016, 55, 217-225.	0.8	24
30	Experimental observation of acoustic emissions generated by a pulsed proton beam from a hospitalâ€based clinical cyclotron. Medical Physics, 2015, 42, 7090-7097.	1.6	56
31	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.	1.6	115
32	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.	1.6	25
33	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.	1.6	83
34	Impact of motion induced artifacts on automatic registration of lung tumors in Tomotherapy. Physica Medica, 2015, 31, 963-968.	0.4	3
35	Phantom based evaluation of CT to CBCT image registration for proton therapy dose recalculation. Physics in Medicine and Biology, 2015, 60, 595-613.	1.6	49
36	Generation of prescriptions robust against geometric uncertainties in dose painting by numbers. Acta OncolÃ³gica, 2015, 54, 253-260.	0.8	15

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37	Reprogramming of tumor metabolism by targeting mitochondria improves tumor response to irradiation. Acta OncolÃ³gica, 2015, 54, 266-274.	0.8	30
38	Validation of the mid-position strategy for lung tumors in helical TomoTherapy. Radiotherapy and Oncology, 2014, 110, 529-537.	0.3	30
39	Assessment of tumor motion reproducibility with audioâ€visual coaching through successive 4D CT sessions. Journal of Applied Clinical Medical Physics, 2014, 15, 47-56.	0.8	33
40	3D Dose Distribution for GYN with Dose Accumulation between Insertions: Feasibility Study. Brachytherapy, 2013, 12, S22.	0.2	2
41	Helical tomotherapy for SIB and hypo-fractionated treatments in lung carcinomas: A 4D Monte Carlo treatment planning study. Radiotherapy and Oncology, 2012, 104, 173-180.	0.3	23
42	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.	0.3	30
43	Diffeomorphic Registration of Images with Variable Contrast Enhancement. International Journal of Biomedical Imaging, 2011, 2011, 1-16.	3.0	70
44	Evaluation of the radiobiological impact of anatomic modifications during radiation therapy for head and neck cancer: Can we simply summate the dose?. Radiotherapy and Oncology, 2010, 96, 131-138.	0.3	15
45	Evaluation of nonrigid registration models for interfraction dose accumulation in radiotherapy. Medical Physics, 2009, 36, 4268-4276.	1.6	73
46	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.	0.3	64