

Antony Lomax

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.

36
papers

3,614
citations

25
h-index

38
g-index

38
ext. papers

4,090
ext. citations

2.4
avg, IF

5.18
L-index

#	Paper	IF	Citations
36	The calibration of CT Hounsfield units for radiotherapy treatment planning. <i>Physics in Medicine and Biology</i> , 1996 , 41, 111-24	3.8	649
35	The 200-MeV proton therapy project at the Paul Scherrer Institute: conceptual design and practical realization. <i>Medical Physics</i> , 1995 , 22, 37-53	4.4	439
34	In vivo proton range verification: a review. <i>Physics in Medicine and Biology</i> , 2013 , 58, R131-60	3.8	316
33	Potential reduction of the incidence of radiation-induced second cancers by using proton beams in the treatment of pediatric tumors. <i>International Journal of Radiation Oncology Biology Physics</i> , 2002 , 54, 824-9	4	316
32	Dose calculation models for proton treatment planning using a dynamic beam delivery system: an attempt to include density heterogeneity effects in the analytical dose calculation. <i>Physics in Medicine and Biology</i> , 1999 , 44, 27-41	3.8	216
31	Motion interplay as a function of patient parameters and spot size in spot scanning proton therapy for lung cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013 , 86, 380-6	4	144
30	The PSI Gantry 2: a second generation proton scanning gantry. <i>Zeitschrift Fur Medizinische Physik</i> , 2004 , 14, 25-34	7.6	140
29	Scanned proton radiotherapy for mobile targets-the effectiveness of re-scanning in the context of different treatment planning approaches and for different motion characteristics. <i>Physics in Medicine and Biology</i> , 2011 , 56, 7257-71	3.8	139
28	A treatment planning comparison of 3D conformal therapy, intensity modulated photon therapy and proton therapy for treatment of advanced head and neck tumours. <i>Radiotherapy and Oncology</i> , 2001 , 61, 287-97	5.3	134
27	Intensity modulated photon and proton therapy for the treatment of head and neck tumors. <i>Radiotherapy and Oncology</i> , 2006 , 80, 263-7	5.3	123
26	The impact of IMRT and proton radiotherapy on secondary cancer incidence. <i>Strahlentherapie Und Onkologie</i> , 2006 , 182, 647-52	4.3	110
25	Deficiency in homologous recombination renders Mammalian cells more sensitive to proton versus photon irradiation. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014 , 88, 175-81	4	81
24	Comparative risk assessment of secondary cancer incidence after treatment of Hodgkin's disease with photon and proton radiation. <i>Radiation Research</i> , 2000 , 154, 382-8	3.1	74
23	Patient specific optimization of the relation between CT-hounsfield units and proton stopping power with proton radiography. <i>Medical Physics</i> , 2005 , 32, 195-9	4.4	73
22	Optimizing radiotherapy of orbital and paraorbital tumors: intensity-modulated X-ray beams vs. intensity-modulated proton beams. <i>International Journal of Radiation Oncology Biology Physics</i> , 2000 , 47, 1111-9	4	72
21	Spot-scanning-based proton therapy for extracranial chordoma. <i>International Journal of Radiation Oncology Biology Physics</i> , 2011 , 81, e489-96	4	70
20	Second cancers in children treated with modern radiotherapy techniques. <i>Radiotherapy and Oncology</i> , 2008 , 89, 135-40	5.3	60

19	The impact of dose escalation on secondary cancer risk after radiotherapy of prostate cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007 , 68, 892-7	4	57
18	The role of proton therapy in the treatment of large irradiation volumes: a comparative planning study of pancreatic and biliary tumors. <i>International Journal of Radiation Oncology Biology Physics</i> , 2000 , 48, 277-88	4	52
17	Initial experience of using an active beam delivery technique at PSI. <i>Strahlentherapie Und Onkologie</i> , 1999 , 175 Suppl 2, 18-20	4.3	47
16	Respiratory motion-management in stereotactic body radiation therapy for lung cancer - A dosimetric comparison in an anthropomorphic lung phantom (LuCa). <i>Radiotherapy and Oncology</i> , 2016 , 121, 328-334	5.3	42
15	Current and future accelerator technologies for charged particle therapy. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016 , 809, 96-104	1.2	31
14	Online daily adaptive proton therapy. <i>British Journal of Radiology</i> , 2020 , 93, 20190594	3.4	27
13	Robustness of the Voluntary Breath-Hold Approach for the Treatment of Peripheral Lung Tumors Using Hypofractionated Pencil Beam Scanning Proton Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2016 , 95, 534-541	4	25
12	Four-Dimensional Dose Reconstruction for Scanned Proton Therapy Using Liver 4DCT-MRI. <i>International Journal of Radiation Oncology Biology Physics</i> , 2016 , 95, 216-223	4	24
11	Long-Term Outcomes and Prognostic Factors After Pencil-Beam Scanning Proton Radiation Therapy for Spinal Chordomas: A Large, Single-Institution Cohort. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018 , 101, 226-233	4	23
10	Neutron dose from prostheses material during radiotherapy with protons and photons. <i>Physics in Medicine and Biology</i> , 2004 , 49, N119-24	3.8	20
9	Evaluation of the ray-casting analytical algorithm for pencil beam scanning proton therapy. <i>Physics in Medicine and Biology</i> , 2019 , 64, 065021	3.8	13
8	The exchange of radiotherapy data as part of an electronic patient-referral system. <i>International Journal of Radiation Oncology Biology Physics</i> , 2000 , 47, 1449-56	4	13
7	A comparison of normal tissue complication probability of brain for proton and photon therapy of canine nasal tumors. <i>Veterinary Radiology and Ultrasound</i> , 2002 , 43, 480-6	1.2	10
6	What will the medical physics of proton therapy look like 10yr from now? A personal view. <i>Medical Physics</i> , 2018 , 45, e984-e993	4.4	10
5	Anthropomorphic phantom for deformable lung and liver CT and MR imaging for radiotherapy. <i>Physics in Medicine and Biology</i> , 2020 , 65, 07NT02	3.8	8
4	Noninvasive eye localization in ocular proton therapy through optical eye tracking: A proof of concept. <i>Medical Physics</i> , 2018 , 45, 2186-2194	4.4	5
3	Technical Note: Benchmarking automated eye tracking and human detection for motion monitoring in ocular proton therapy. <i>Medical Physics</i> , 2020 , 47, 2237-2241	4.4	3
2	SFUD, IMPT, and Plan Robustness 2016 , 169-194		3

Physics of Treatment Planning Using Scanned Beams. *Series in Medical Physics and Biomedical Engineering*, **2011**, 335-380