

Juergen Meyer

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

1,974
citations

361045

20
h-index

243296

44
g-index

60
all docs

60
docs citations

60
times ranked

1773
citing authors

#	ARTICLE	IF	CITATIONS
1	FDG-PET/CT imaging for preradiotherapy staging of head-and-neck squamous cell carcinoma. International Journal of Radiation Oncology Biology Physics, 2005, 61, 129-136.	0.4	207
2	Magnitude and clinical relevance of translational and rotational patient setup errors: A cone-beam CT study. International Journal of Radiation Oncology Biology Physics, 2006, 65, 934-942.	0.4	156
3	Four-Dimensional Treatment Planning for Stereotactic Body Radiotherapy. International Journal of Radiation Oncology Biology Physics, 2007, 69, 276-285.	0.4	142
4	Precision of Image-Guided Radiotherapy (IGRT) in Six Degrees of Freedom and Limitations in Clinical Practice. Strahlentherapie Und Onkologie, 2007, 183, 307-313.	1.0	133
5	Intra-fractional uncertainties in cone-beam CT based image-guided radiotherapy (IGRT) of pulmonary tumors. Radiotherapy and Oncology, 2007, 83, 57-64.	0.3	127
6	Cone-beam CT based image-guidance for extracranial stereotactic radiotherapy of intrapulmonary tumors. Acta Oncologica, 2006, 45, 897-906.	0.8	117
7	FDG-PET/CT-guided intensity modulated head and neck radiotherapy: A pilot investigation. Head and Neck, 2005, 27, 478-487.	0.9	111
8	Is a Single Respiratory Correlated 4D-CT Study Sufficient for Evaluation of Breathing Motion?. International Journal of Radiation Oncology Biology Physics, 2007, 67, 1352-1359.	0.4	108
9	Tumor tracking and motion compensation with an adaptive tumor tracking system (ATTS): System description and prototype testing. Medical Physics, 2008, 35, 3911-3921.	1.6	90
10	Precision required for dose-escalated treatment of spinal metastases and implications for image-guided radiation therapy (IGRT). Radiotherapy and Oncology, 2007, 84, 56-63.	0.3	71
11	Validating FMEA output against incident learning data: A study in stereotactic body radiation therapy. Medical Physics, 2015, 42, 2777-2785.	1.6	49
12	A decision aid for intensity-modulated radiation-therapy plan selection in prostate cancer based on a prognostic Bayesian network and a Markov model. Artificial Intelligence in Medicine, 2009, 46, 119-130.	3.8	44
13	33, 1275-1280.	1.6	43
14	Clinical paradigms and challenges in surface guided radiation therapy: Where do we go from here?. Radiotherapy and Oncology, 2020, 153, 34-42.	0.3	43
15	A brief review of radiation hormesis. Australasian Physical and Engineering Sciences in Medicine, 2009, 32, 180-187.	1.4	38
16	Automatic selection of non-coplanar beam directions for three-dimensional conformal radiotherapy. British Journal of Radiology, 2005, 78, 316-327.	1.0	32
17	Spatially fractionated proton minibeam. British Journal of Radiology, 2019, 92, 20180466.	1.0	28
18	Characteristics of Gafchromic [®] XR [®] 2 radiochromic film. Medical Physics, 2009, 36, 3050-3058.	1.6	27

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19	Clinical investigations of a CVD diamond detector for radiotherapy dosimetry. <i>Physica Medica</i> , 2012, 28, 144-152.	0.4	25
20	Adverse effect of a distended rectum in intensity-modulated radiotherapy (IMRT) treatment planning of prostate cancer. <i>Radiotherapy and Oncology</i> , 2006, 79, 59-64.	0.3	21
21	The role of surface-guided radiation therapy for improving patient safety. <i>Radiotherapy and Oncology</i> , 2021, 163, 229-236.	0.3	21
22	Influence of Rectum Delineation (Rectal Volume vs. Rectal Wall) on IMRT Treatment Planning of the Prostate. <i>Strahlentherapie Und Onkologie</i> , 2006, 182, 721-726.	1.0	20
23	Predictors of cardiac and lung dose sparing in DIBH for left breast treatment. <i>Physica Medica</i> , 2019, 67, 27-33.	0.4	20
24	Accommodation of couch constraints for coplanar intensity modulated radiation therapy. <i>Radiotherapy and Oncology</i> , 2001, 61, 23-32.	0.3	19
25	Pre-segmented 2-Step IMRT with subsequent direct machine parameter optimisation – a planning study. <i>Radiation Oncology</i> , 2008, 3, 38.	1.2	18
26	Suitability of markerless EPID tracking for tumor position verification in gated radiotherapy. <i>Medical Physics</i> , 2014, 41, 031702.	1.6	18
27	Biological and dosimetric characterisation of spatially fractionated proton minibeam. <i>Physics in Medicine and Biology</i> , 2017, 62, 9260-9281.	1.6	18
28	Accuracy and stability of deep inspiration breath hold in gated breast radiotherapy – A comparison of two tracking and guidance systems. <i>Physica Medica</i> , 2019, 60, 174-181.	0.4	18
29	Characterization of a Bayesian network-based radiotherapy plan verification model. <i>Medical Physics</i> , 2019, 46, 2006-2014.	1.6	17
30	Improved accuracy for noncoplanar radiotherapy: an EPID-based method for submillimeter alignment of linear accelerator table rotation with MV isocenter. <i>Journal of Applied Clinical Medical Physics</i> , 2014, 15, 151-159.	0.8	16
31	Collimator design for spatially-fractionated proton beams for radiobiology research. <i>Physics in Medicine and Biology</i> , 2016, 61, 5378-5389.	1.6	16
32	A comparison between 2-Step IMRT and conventional IMRT planning. <i>Radiotherapy and Oncology</i> , 2007, 84, 298-306.	0.3	15
33	Digital holographic interferometry: A novel optical calorimetry technique for radiation dosimetry. <i>Medical Physics</i> , 2014, 41, 022102.	1.6	14
34	Is ad-hoc plan adaptation based on 2-Step IMRT feasible?. <i>Radiotherapy and Oncology</i> , 2009, 93, 266-272.	0.3	12
35	Commissioning, clinical implementation, and performance of the Mobetron 2000 for intraoperative radiation therapy. <i>Journal of Applied Clinical Medical Physics</i> , 2017, 18, 230-242.	0.8	12
36	A method for patient set-up guidance in radiotherapy using augmented reality. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2009, 32, 203-211.	1.4	11

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37	Reducing Cardiac Radiation Dose From Breast Cancer Radiation Therapy With Breath Hold Training and Cognitive Behavioral Therapy. Topics in Magnetic Resonance Imaging, 2020, 29, 135-148.	0.7	11
38	Influence of increased target dose inhomogeneity on margins for breathing motion compensation in conformal stereotactic body radiotherapy. BMC Medical Physics, 2008, 8, 5.	2.4	10
39	Characterizing a deformable registration algorithm for surface-guided breast radiotherapy. Medical Physics, 2020, 47, 352-362.	1.6	9
40	Three-dimensional spatial modelling of the correlation between abdominal motion and lung tumour motion with breathing. Acta Oncologica, 2006, 45, 923-934.	0.8	8
41	A Spring-Dashpot System for Modelling Lung Tumour Motion in Radiotherapy. Computational and Mathematical Methods in Medicine, 2010, 11, 13-26.	0.7	7
42	Dosimetric comparison of single-beam multi-arc and 2-beam multi-arc VMAT optimization in the Monaco treatment planning system. Medical Dosimetry, 2017, 42, 122-125.	0.4	7
43	Rounded leaf end modeling in Pinnacle VMAT treatment planning for fixed jaw linacs. Journal of Applied Clinical Medical Physics, 2016, 17, 149-162.	0.8	6
44	Optical-Radiation-Calorimeter Refinement by Virtual-Sensitivity Analysis. Sensors, 2019, 19, 1167.	2.1	6
45	Steep dose gradients for simultaneous integrated boost IMRT. Zeitschrift Fur Medizinische Physik, 2009, 19, 129-135.	0.6	4
46	Comparison of natural and synthetic diamond X-ray detectors. Australasian Physical and Engineering Sciences in Medicine, 2010, 33, 301-306.	1.4	4
47	Volume effects in the TCP for hypoxic and oxygenated tumors. Medical Physics, 2020, 47, 4626-4633.	1.6	4
48	Application of a least-squares parameter estimation approach for 2-D spatial modelling of compensators for intensity-modulated radiotherapy. Transactions of the Institute of Measurement and Control, 2002, 24, 369-386.	1.1	3
49	A system for equitable workload distribution in clinical medical physics. Journal of Applied Clinical Medical Physics, 2021, 22, 186-193.	0.8	3
50	An Interlaced IMRT Technique for Elongated Tumor Volumes. Medical Dosimetry, 2009, 34, 170-178.	0.4	2
51	Monte Carlo validation of optimal material discrimination using spectral x-ray imaging. Journal of Instrumentation, 2014, 9, T08003-T08003.	0.5	2
52	The dosimetric benefit of advance respiratory training for deep inspiration breath holding is realized during daily treatment in left breast radiotherapy: A comparative retrospective study of serial surface motion tracking. Journal of Medical Imaging and Radiation Oncology, 2021, 65, 354-364.	0.9	2
53	Two-step intensity modulated arc therapy (2-step IMAT) with segment weight and width optimization. Radiation Oncology, 2011, 6, 57.	1.2	1
54	Proton therapy: decisions, decisions. Australasian Physical and Engineering Sciences in Medicine, 2012, 35, 253-256.	1.4	1

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55	Assessment of concomitant testicular dose with radiochromic film. Australasian Physical and Engineering Sciences in Medicine, 2013, 36, 269-277.	1.4	1
56	Monte Carlo modelling the dosimetric effects of electrode material on diamond detectors. Australasian Physical and Engineering Sciences in Medicine, 2015, 38, 101-108.	1.4	1
57	Electron beam energy QA " a note on measurement tolerances. Journal of Applied Clinical Medical Physics, 2016, 17, 249-257.	0.8	1
58	Response to "Comment on "When is better best? A multiobjective perspective" [Med. Phys. 38, 1635-1640 (2011)]. Medical Physics, 2013, 40, 077102.	1.6	0