

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	The dosimetric benefit of inâ€advance respiratory training for deep inspiration breath holding is realized during daily treatment in left breast radiotherapy: Aâ€comparative retrospective study of serial surface motion tracking. Journal of Medical Imaging and Radiation Oncology, 2021, 65, 354-364.	0.9	2
2	The role of surface-guided radiation therapy for improving patient safety. Radiotherapy and Oncology, 2021, 163, 229-236.	0.3	21
3	A system for equitable workload distribution in clinical medical physics. Journal of Applied Clinical Medical Physics, 2021, 22, 186-193.	0.8	3
4	Characterizing a deformable registration algorithm for surfaceâ€guided breast radiotherapy. Medical Physics, 2020, 47, 352-362.	1.6	9
5	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
6	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
7	Volume effects in the TCP for hypoxic and oxygenated tumors. Medical Physics, 2020, 47, 4626-4633.	1.6	4
8	Predictors of cardiac and lung dose sparing in DIBH for left breast treatment. Physica Medica, 2019, 67, 27-33.	0.4	20
9	Characterization of a Bayesian networkâ€based radiotherapy plan verification model. Medical Physics, 2019, 46, 2006-2014.	1.6	17
10	Optical-Radiation-Calorimeter Refinement by Virtual-Sensitivity Analysis. Sensors, 2019, 19, 1167.	2.1	6
11	Accuracy and stability of deep inspiration breath hold in gated breast radiotherapy â€ A comparison of two tracking and guidance systems. Physica Medica, 2019, 60, 174-181.	0.4	18
12	Spatially fractionated proton minibeam. British Journal of Radiology, 2019, 92, 20180466.	1.0	28
13	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
14	Biological and dosimetric characterisation of spatially fractionated proton minibeam. Physics in Medicine and Biology, 2017, 62, 9260-9281.	1.6	18
15	Commissioning, clinical implementation, and performance of the Mobetron 2000 for intraoperative radiation therapy. Journal of Applied Clinical Medical Physics, 2017, 18, 230-242.	0.8	12
16	Electron beam energy QA â€ a note on measurement tolerances. Journal of Applied Clinical Medical Physics, 2016, 17, 249-257.	0.8	1
17	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
18	Collimator design for spatially-fractionated proton beams for radiobiology research. Physics in Medicine and Biology, 2016, 61, 5378-5389.	1.6	16

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19	Validating FMEA output against incident learning data: A study in stereotactic body radiation therapy. <i>Medical Physics</i> , 2015, 42, 2777-2785.	1.6	49
20	Monte Carlo modelling the dosimetric effects of electrode material on diamond detectors. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2015, 38, 101-108.	1.4	1
21	Suitability of markerless EPID tracking for tumor position verification in gated radiotherapy. <i>Medical Physics</i> , 2014, 41, 031702.	1.6	18
22	Digital holographic interferometry: A novel optical calorimetry technique for radiation dosimetry. <i>Medical Physics</i> , 2014, 41, 022102.	1.6	14
23	Monte Carlo validation of optimal material discrimination using spectral x-ray imaging. <i>Journal of Instrumentation</i> , 2014, 9, T08003-T08003.	0.5	2
24	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
25	Assessment of concomitant testicular dose with radiochromic film. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2013, 36, 269-277.	1.4	1
26	Response to "Comment on "When is better best? A multiobjective perspective" [Med. Phys. 38, 1635-1640 (2011)]. <i>Medical Physics</i> , 2013, 40, 077102.	1.6	0
27	Proton therapy: decisions, decisions. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2012, 35, 253-256.	1.4	1
28	Clinical investigations of a CVD diamond detector for radiotherapy dosimetry. <i>Physica Medica</i> , 2012, 28, 144-152.	0.4	25
29	Two-step intensity modulated arc therapy (2-step IMAT) with segment weight and width optimization. <i>Radiation Oncology</i> , 2011, 6, 57.	1.2	1
30	Comparison of natural and synthetic diamond X-ray detectors. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2010, 33, 301-306.	1.4	4
31	A Spring-Dashpot System for Modelling Lung Tumour Motion in Radiotherapy. <i>Computational and Mathematical Methods in Medicine</i> , 2010, 11, 13-26.	0.7	7
32	Characteristics of Gafchromic XR-V2 radiochromic film. <i>Medical Physics</i> , 2009, 36, 3050-3058.	1.6	27
33	A decision aid for intensity-modulated radiation-therapy plan selection in prostate cancer based on a prognostic Bayesian network and a Markov model. <i>Artificial Intelligence in Medicine</i> , 2009, 46, 119-130.	3.8	44
34	A brief review of radiation hormesis. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2009, 32, 180-187.	1.4	38
35	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
36	Steep dose gradients for simultaneous integrated boost IMRT. <i>Zeitschrift Fur Medizinische Physik</i> , 2009, 19, 129-135.	0.6	4

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37	An Interlaced IMRT Technique for Elongated Tumor Volumes. <i>Medical Dosimetry</i> , 2009, 34, 170-178.	0.4	2
38	Is ad-hoc plan adaptation based on 2-Step IMRT feasible?. <i>Radiotherapy and Oncology</i> , 2009, 93, 266-272.	0.3	12
39	Pre-segmented 2-Step IMRT with subsequent direct machine parameter optimisation – a planning study. <i>Radiation Oncology</i> , 2008, 3, 38.	1.2	18
40	Influence of increased target dose inhomogeneity on margins for breathing motion compensation in conformal stereotactic body radiotherapy. <i>BMC Medical Physics</i> , 2008, 8, 5.	2.4	10
41	Tumor tracking and motion compensation with an adaptive tumor tracking system (ATTS): System description and prototype testing. <i>Medical Physics</i> , 2008, 35, 3911-3921.	1.6	90
42	Intra-fractional uncertainties in cone-beam CT based image-guided radiotherapy (IGRT) of pulmonary tumors. <i>Radiotherapy and Oncology</i> , 2007, 83, 57-64.	0.3	127
43	Precision required for dose-escalated treatment of spinal metastases and implications for image-guided radiation therapy (IGRT). <i>Radiotherapy and Oncology</i> , 2007, 84, 56-63.	0.3	71
44	A comparison between 2-Step IMRT and conventional IMRT planning. <i>Radiotherapy and Oncology</i> , 2007, 84, 298-306.	0.3	15
45	Is a Single Respiratory Correlated 4D-CT Study Sufficient for Evaluation of Breathing Motion?. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007, 67, 1352-1359.	0.4	108
46	Four-Dimensional Treatment Planning for Stereotactic Body Radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007, 69, 276-285.	0.4	142
47	Precision of Image-Guided Radiotherapy (IGRT) in Six Degrees of Freedom and Limitations in Clinical Practice. <i>Strahlentherapie Und Onkologie</i> , 2007, 183, 307-313.	1.0	133
48	Cone-beam CT based image-guidance for extracranial stereotactic radiotherapy of intrapulmonary tumors. <i>Acta Oncologica</i> , 2006, 45, 897-906.	0.8	117
49	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
50	Magnitude and clinical relevance of translational and rotational patient setup errors: A cone-beam CT study. <i>International Journal of Radiation Oncology Biology Physics</i> , 2006, 65, 934-942.	0.4	156
51	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
52	Three-dimensional spatial modelling of the correlation between abdominal motion and lung tumour motion with breathing. <i>Acta Oncologica</i> , 2006, 45, 923-934.	0.8	8
53	33, 1275-1280.	1.6	43
54	FDG-PET/CT imaging for preradiotherapy staging of head-and-neck squamous cell carcinoma. <i>International Journal of Radiation Oncology Biology Physics</i> , 2005, 61, 129-136.	0.4	207

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55	FDG-PET/CT-guided intensity modulated head and neck radiotherapy: A pilot investigation. Head and Neck, 2005, 27, 478-487.	0.9	111
56	Automatic selection of non-coplanar beam directions for three-dimensional conformal radiotherapy. British Journal of Radiology, 2005, 78, 316-327.	1.0	32
57	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
58	Accommodation of couch constraints for coplanar intensity modulated radiation therapy. Radiotherapy and Oncology, 2001, 61, 23-32.	0.3	19