

Joerg Lehmann

List of Publications by Year in descending order

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Version: 2024-02-01

83
papers

1,613
citations

304743

22
h-index

315739

38
g-index

83
all docs

83
docs citations

83
times ranked

1793
citing authors

#	ARTICLE	IF	CITATIONS
1	A system for real-time monitoring of breath-hold via assessment of internal anatomy in tangential breast radiotherapy. <i>Journal of Applied Clinical Medical Physics</i> , 2022, 23, .	1.9	4
2	Methodology of thermal drift measurements for surface guided radiation therapy systems and clinical impact assessment illustrated on the C-Rad Catalyst+ÂHD system. <i>Technical Innovations and Patient Support in Radiation Oncology</i> , 2022, 21, 58-63.	1.9	3
3	SEAFARER " A new concept for validating radiotherapy patient specific QA for clinical trials and clinical practice. <i>Radiotherapy and Oncology</i> , 2022, 171, 121-128.	0.6	6
4	Measuring the dose in bone for spine stereotactic body radiotherapy. <i>Physica Medica</i> , 2021, 84, 265-273.	0.7	8
5	Report dose-to-medium in clinical trials where available; a consensus from the Global Harmonisation Group to maximize consistency. <i>Radiotherapy and Oncology</i> , 2021, 159, 106-111.	0.6	21
6	Implementation of the Australian Computer-Assisted Theragnostics (AusCAT) network for radiation oncology data-extraction, reporting and distributed learning. <i>Journal of Medical Imaging and Radiation Oncology</i> , 2021, 65, 627-636.	1.8	11
7	Calculation algorithms and penumbra: Underestimation of dose in organs at risk in dosimetry audits. <i>Medical Physics</i> , 2021, 48, 6184-6197.	3.0	8
8	Characterisation of a synthetic diamond detector for end-to-end dosimetry in stereotactic body radiotherapy and radiosurgery. <i>Physics and Imaging in Radiation Oncology</i> , 2021, 20, 40-45.	2.9	10
9	Organ at risk delineation for radiation therapy clinical trials: Global Harmonization Group consensus guidelines. <i>Radiotherapy and Oncology</i> , 2020, 150, 30-39.	0.6	53
10	The effect of the horizontal metallic drive on reference dosimetry in the SNC 3D scanner water tank. <i>Journal of Applied Clinical Medical Physics</i> , 2020, 21, 95-101.	1.9	0
11	Credentialing of vertebral stereotactic ablative body radiotherapy in a multi-centre trial. <i>Physica Medica</i> , 2020, 72, 16-21.	0.7	5
12	A comparison of IROC and ACDS on-site audits of reference and non-reference dosimetry. <i>Medical Physics</i> , 2019, 46, 5878-5887.	3.0	7
13	Assessment of the accuracy of truebeam intrafraction motion review (IMR) system for prostate treatment guidance. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2019, 42, 585-598.	1.3	18
14	Impact of magnetic fields on dose measurement with small ion chambers illustrated in high-resolution response maps. <i>Medical Physics</i> , 2019, 46, 3298-3305.	3.0	2
15	Empirical study of the spatial variation of recombination, polarity and polarization effects in ionization chambers. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2019, 914, 15-24.	1.6	1
16	Excessive applicator radiation leakage for a common therapeutic kilovoltage system. <i>British Journal of Radiology</i> , 2019, 92, 20180743.	2.2	1
17	Spatial response of synthetic microDiamond and diode detectors measured with kilovoltage synchrotron radiation. <i>Medical Physics</i> , 2018, 45, 943-952.	3.0	26
18	Dosimetric end-to-end tests in a national audit of 3D conformal radiotherapy. <i>Physics and Imaging in Radiation Oncology</i> , 2018, 6, 5-11.	2.9	21

#	ARTICLE	IF	CITATIONS
19	A remote EPID-based dosimetric TPS-planned audit of centers for clinical trials: outcomes and analysis of contributing factors. Radiation Oncology, 2018, 13, 178.	2.7	6
20	Continuous breath-hold assessment during breast radiotherapy using portal imaging. Physics and Imaging in Radiation Oncology, 2018, 5, 64-68.	2.9	9
21	Virtual EPID standard phantom audit (VESPA) for remote IMRT and VMAT credentialing. Physics in Medicine and Biology, 2017, 62, 4293-4299.	3.0	17
22	A novel and independent method for time-resolved gantry angle quality assurance for <scp>VMAT</scp>. Journal of Applied Clinical Medical Physics, 2017, 18, 134-142.	1.9	2
23	Technical note: TROC 15.01 SPARK trial multi-institutional imaging dose measurement. Journal of Applied Clinical Medical Physics, 2017, 18, 358-363.	1.9	10
24	Commissioning of a <scp>PTW</scp> 34070 large-area plane-parallel ionization chamber for small field megavoltage photon dosimetry. Journal of Applied Clinical Medical Physics, 2017, 18, 206-217.	1.9	11
25	A virtual dosimetry audit – Towards transferability of gamma index analysis between clinical trial QA groups. Radiotherapy and Oncology, 2017, 125, 398-404.	0.6	12
26	Remote dosimetric auditing for intensity modulated radiotherapy: A pilot study. Physics and Imaging in Radiation Oncology, 2017, 4, 26-31.	2.9	11
27	Dosimetry of ionising radiation in modern radiation oncology. Physics in Medicine and Biology, 2016, 61, R167-R205.	3.0	82
28	Comparison between the TRS-398 code of practice and the TG-51 dosimetry protocol for flattening filter free beams. Physics in Medicine and Biology, 2016, 61, N362-N372.	3.0	11
29	High spatial resolution dosimetric response maps for radiotherapy ionization chambers measured using kilovoltage synchrotron radiation. Physics in Medicine and Biology, 2015, 60, 8625-8641.	3.0	30
30	Development of phantom and methodology for 3D and 4D dose intercomparisons for advanced lung radiotherapy. Journal of Physics: Conference Series, 2015, 573, 012023.	0.4	1
31	Long term OSLD reader stability in the ACDS level one audit. Australasian Physical and Engineering Sciences in Medicine, 2015, 38, 151-156.	1.3	7
32	National dosimetric audit network finds discrepancies in AAA lung inhomogeneity corrections. Physica Medica, 2015, 31, 435-441.	0.7	36
33	Remote auditing of radiotherapy facilities using optically stimulated luminescence dosimeters. Medical Physics, 2014, 41, 032102.	3.0	36
34	Angular dependence of the response of the nanoDot OSLD system for measurements at depth in clinical megavoltage beams. Medical Physics, 2014, 41, 061712.	3.0	32
35	A 2D ion chamber array audit of wedged and asymmetric fields in an inhomogeneous lung phantom. Medical Physics, 2014, 41, 101712.	3.0	19
36	Trust, but verify – Accuracy of clinical commercial radiation Treatment Planning Systems. Journal of Physics: Conference Series, 2014, 489, 012094.	0.4	3

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37	Image Guided Radiation Therapy (IGRT) Technologies for Radiation Therapy Localization and Delivery. International Journal of Radiation Oncology Biology Physics, 2013, 87, 33-45.	0.8	120
38	Commissioning of optically stimulated luminescence dosimeters for use in radiotherapy. Radiation Measurements, 2013, 51-52, 31-39.	1.4	69
39	MO-D-105-04: A Nation-Wide Three Level Audit Service - the Australian Experience. Medical Physics, 2013, 40, 394-395.	3.0	0
40	Quality assurance for nonradiographic radiotherapy localization and positioning systems: Report of Task Group 147. Medical Physics, 2012, 39, 1728-1747.	3.0	100
41	On using 3D ð analysis for IMRT and VMAT pretreatment plan QA. Medical Physics, 2012, 39, 3051-3059.	3.0	35
42	The Australian Clinical Dosimetry Service: a commentary on the first 18 months. Australasian Physical and Engineering Sciences in Medicine, 2012, 35, 407-411.	1.3	20
43	The effect of very small air gaps on small field dosimetry. Physics in Medicine and Biology, 2012, 57, 6947-6960.	3.0	36
44	SU-E-T-164: Clinical Implementation of ASi EPID Panels for QA of IMRT/VMAT Plans. Medical Physics, 2012, 39, 3740-3741.	3.0	0
45	Effect of tumour-cell-derived or recombinant keratinocyte growth factor (KGF) on proliferation and radioresponse of human epithelial tumour cells (HNSCC) and normal keratinocytes in vitro. Radiation and Environmental Biophysics, 2010, 49, 261-270.	1.4	15
46	Utilization of Image-Guided Radiation Therapy Equipment to Enhance Stereotactic Body Radiation Therapy Commissioning. Radiosurgery, 2010, , 397-402.	0.1	1
47	SU-FF-T-367: Surface Dose Measurements with OneDose MOSFET System. Medical Physics, 2009, 36, 2606-2606.	3.0	0
48	Transient Genome-Wide Transcriptional Response to Low-Dose Ionizing Radiation In Vivo in Humans. International Journal of Radiation Oncology Biology Physics, 2008, 70, 229-234.	0.8	38
49	Prospective Evaluation to Establish a Dose Response for Clinical Oral Mucositis in Patients Undergoing Head-and-Neck Conformal Radiotherapy. International Journal of Radiation Oncology Biology Physics, 2008, 72, 756-762.e4.	0.8	58
50	Comparison of peripheral dose from image-guided radiation therapy (IGRT) using kV cone beam CT to intensity-modulated radiation therapy (IMRT). Radiotherapy and Oncology, 2008, 89, 304-310.	0.6	63
51	<i>Short Communication:</i> Nanoparticle Thermo-therapy and External Beam Radiation Therapy for Human Prostate Cancer Cells. Cancer Biotherapy and Radiopharmaceuticals, 2008, 23, 265-271.	1.0	14
52	Nanomolecular HLA-DR10 Antibody Mimics: A Potent System for Molecular Targeted Therapy and Imaging. Cancer Biotherapy and Radiopharmaceuticals, 2008, 23, 783-795.	1.0	12
53	SU-GG-J-123: Making High Volume OBI CBCT Work in ðthe Real Worldð. Medical Physics, 2008, 35, 2707-2707.	3.0	0
54	SU-CC-C-110: Initial Assessment of Peripheral Dose for Image Guided Radiation Therapy (IGRT) Using Cone Beam CT. Medical Physics, 2008, 35, 2704-2704.	3.0	1

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55	Commissioning experience with cone-beam computed tomography for image-guided radiation therapy. Journal of Applied Clinical Medical Physics, 2007, 8, 21-36.	1.9	44
56	Comparison of the combined action of oxaliplatin or cisplatin and radiation in cervical and lung cancer cells. International Journal of Radiation Biology, 2007, 83, 41-47.	1.8	18
57	Optimized Methodology for Sequential Extraction of RNA and Protein from Small Human Skin Biopsies. Journal of Investigative Dermatology, 2007, 127, 349-353.	0.7	36
58	TU-FF-A1-02: Development of a Fluence Benchmark for Clinical Electron Beams. Medical Physics, 2007, 34, 2574-2574.	3.0	0
59	TU-FF-A1-01: Electron Spectra Unfolding From Open Field Depth Dose Curves. Medical Physics, 2007, 34, 2574-2574.	3.0	0
60	SU-FF-J-79: Quantification of Pitch Angle Deviations in Patients Receiving IMRT for Prostate Cancer, Without the Use of Fiducial Seed Markers. Medical Physics, 2007, 34, 2386-2386.	3.0	0
61	Characteristics of dimeric (bis) bidentate selective high affinity ligands as HLA-DR10 beta antibody mimics targeting non-Hodgkin's lymphoma. International Journal of Oncology, 2007, 31, 729-40.	3.3	5
62	Dosimetry for Quantitative Analysis of the Effects of Low-Dose Ionizing Radiation in Radiation Therapy Patients. Radiation Research, 2006, 165, 240-247.	1.5	16
63	Comparison of normal tissue pharmacokinetics with ¹¹¹ In/90Y monoclonal antibody m170 for breast and prostate cancer. International Journal of Radiation Oncology Biology Physics, 2006, 66, 1192-1198.	0.8	5
64	Human In vivo Dose-Response to Controlled, Low-Dose Low Linear Energy Transfer Ionizing Radiation Exposure. Clinical Cancer Research, 2006, 12, 3723-3729.	7.0	45
65	SU-FF-T-341: New BEAMnrc Tools for Photon and Electron Beam Model Analysis. Medical Physics, 2006, 33, 2125-2125.	3.0	0
66	SU-FF-T-293: Inter-Linac and Intra-Linac Variability of X-Ray and Electron Dose Distributions. Medical Physics, 2006, 33, 2114-2114.	3.0	0
67	TH-D-224C-10: Commissioning and QA of Cone Beam CT for Image Guided Radiation Therapy. Medical Physics, 2006, 33, 2284-2285.	3.0	0
68	SU-FF-T-273: Improved Calculation of Energy Spectra From Electron Depth Dose Curves. Medical Physics, 2006, 33, 2110-2110.	3.0	0
69	SU-FF-T-46: A Prototype Radiation Therapy Picture Archive Communication System (RT PACS) Design for Clinics Implementing IGRT. Medical Physics, 2006, 33, 2060-2060.	3.0	0
70	SU-FF-T-133: Commissioning Electron Beams with Monte Carlo Simulation Based On Large Field Measurements. Medical Physics, 2006, 33, 2079-2079.	3.0	0
71	Evaluation of Beta-Absorbed Fractions in a Mouse Model for ⁹⁰ Y, ¹⁸⁸ Re, ¹⁶⁶ Ho, ¹⁴⁹ Pm, ⁶⁴ Cu, and ¹⁷⁷ Lu Radionuclides. Cancer Biotherapy and Radiopharmaceuticals, 2005, 20, 436-449.	1.0	56
72	MINERVA: A multi-modality plugin-based radiation therapy treatment planning system. Radiation Protection Dosimetry, 2005, 116, 202-207.	0.8	2

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73	Monte Carlo treatment planning for molecular targeted radiotherapy within the MINERVA system. <i>Physics in Medicine and Biology</i> , 2005, 50, 947-958.	3.0	35
74	Radiation phantom with humanoid shape and adjustable thickness (RPHAT). <i>Physics in Medicine and Biology</i> , 2004, 49, N125-N129.	3.0	8
75	Film dosimetry in the peripheral region using multiple sensitometric curves. <i>Medical Physics</i> , 2004, 31, 327-332.	3.0	6
76	Lack of interferon beta-induced radiosensitization in four out of five human glioblastoma cell lines. <i>International Journal of Radiation Oncology Biology Physics</i> , 2003, 55, 1348-1357.	0.8	12
77	CyberKnife Radiotherapy for Localized Prostate Cancer: Rationale and Technical Feasibility. <i>Technology in Cancer Research and Treatment</i> , 2003, 2, 25-29.	1.9	148
78	The combined effect of interferon beta and radiation on five human tumor cell lines and embryonal lung fibroblasts. <i>International Journal of Radiation Oncology Biology Physics</i> , 1999, 43, 405-412.	0.8	23
79	Effects of paclitaxel in combination with radiation on human head and neck cancer cells (ZMK-1), cervical squamous cell carcinoma (CaSki), and breast adenocarcinoma cells (MCF-7). <i>Journal of Cancer Research and Clinical Oncology</i> , 1999, 125, 20-27.	2.5	14
80	Radiosensitizing effect of natural and recombinant \hat{I}^2 -interferons in a human lung carcinoma in vitro. <i>Journal of Cancer Research and Clinical Oncology</i> , 1999, 125, 350-356.	2.5	6
81	Energy deposition of electrons in low-, medium- and high-Z material: Comparison of the Monte Carlo transport code EGS4 with experiment. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1999, 152, 212-220.	1.4	5
82	XINPUT: A program to edit DOSRZ input files. <i>Medical Physics</i> , 1999, 26, 760-762.	3.0	5
83	Characteristics of dimeric (bis) bidentate selective high affinity ligands as HLA-DR10 beta antibody mimics targeting non-Hodgkin's lymphoma. <i>International Journal of Oncology</i> , 0, , .	3.3	2