

# Joerg Lehmann

## List of Publications by Year in descending order

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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	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
2	Image Guided Radiation Therapy (IGRT) Technologies for Radiation Therapy Localization and Delivery. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013, 87, 33-45.	0.8	120
3	Quality assurance for nonradiographic radiotherapy localization and positioning systems: Report of Task Group 147. <i>Medical Physics</i> , 2012, 39, 1728-1747.	3.0	100
4	Dosimetry of ionising radiation in modern radiation oncology. <i>Physics in Medicine and Biology</i> , 2016, 61, R167-R205.	3.0	82
5	Commissioning of optically stimulated luminescence dosimeters for use in radiotherapy. <i>Radiation Measurements</i> , 2013, 51-52, 31-39.	1.4	69
6	Comparison of peripheral dose from image-guided radiation therapy (IGRT) using kV cone beam CT to intensity-modulated radiation therapy (IMRT). <i>Radiotherapy and Oncology</i> , 2008, 89, 304-310.	0.6	63
7	Prospective Evaluation to Establish a Dose Response for Clinical Oral Mucositis in Patients Undergoing Head-and-Neck Conformal Radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008, 72, 756-762.e4.	0.8	58
8	Evaluation of Beta-Absorbed Fractions in a Mouse Model for <sup>90</sup> Y, <sup>188</sup> Re, <sup>166</sup> Ho, <sup>149</sup> Pm, <sup>64</sup> Cu, and <sup>177</sup> Lu Radionuclides. <i>Cancer Biotherapy and Radiopharmaceuticals</i> , 2005, 20, 436-449.	1.0	56
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	Human In vivo Dose-Response to Controlled, Low-Dose Low Linear Energy Transfer Ionizing Radiation Exposure. <i>Clinical Cancer Research</i> , 2006, 12, 3723-3729.	7.0	45
11	Commissioning experience with cone-beam computed tomography for image-guided radiation therapy. <i>Journal of Applied Clinical Medical Physics</i> , 2007, 8, 21-36.	1.9	44
12	Transient Genome-Wide Transcriptional Response to Low-Dose Ionizing Radiation In Vivo in Humans. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008, 70, 229-234.	0.8	38
13	Optimized Methodology for Sequential Extraction of RNA and Protein from Small Human Skin Biopsies. <i>Journal of Investigative Dermatology</i> , 2007, 127, 349-353.	0.7	36
14	The effect of very small air gaps on small field dosimetry. <i>Physics in Medicine and Biology</i> , 2012, 57, 6947-6960.	3.0	36
15	Remote auditing of radiotherapy facilities using optically stimulated luminescence dosimeters. <i>Medical Physics</i> , 2014, 41, 032102.	3.0	36
16	National dosimetric audit network finds discrepancies in AAA lung inhomogeneity corrections. <i>Physica Medica</i> , 2015, 31, 435-441.	0.7	36
17	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
18	On using 3D analysis for IMRT and VMAT pretreatment plan QA. <i>Medical Physics</i> , 2012, 39, 3051-3059.	3.0	35

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19	Angular dependence of the response of the nanoDot OSLD system for measurements at depth in clinical megavoltage beams. <i>Medical Physics</i> , 2014, 41, 061712.	3.0	32
20	High spatial resolution dosimetric response maps for radiotherapy ionization chambers measured using kilovoltage synchrotron radiation. <i>Physics in Medicine and Biology</i> , 2015, 60, 8625-8641.	3.0	30
21	Spatial response of synthetic microDiamond and diode detectors measured with kilovoltage synchrotron radiation. <i>Medical Physics</i> , 2018, 45, 943-952.	3.0	26
22	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
23	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
24	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
25	The Australian Clinical Dosimetry Service: a commentary on the first 18 months. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2012, 35, 407-411.	1.3	20
26	A 2D ion chamber array audit of wedged and asymmetric fields in an inhomogeneous lung phantom. <i>Medical Physics</i> , 2014, 41, 101712.	3.0	19
27	Comparison of the combined action of oxaliplatin or cisplatin and radiation in cervical and lung cancer cells. <i>International Journal of Radiation Biology</i> , 2007, 83, 41-47.	1.8	18
28	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
29	Virtual EPID standard phantom audit (VESPA) for remote IMRT and VMAT credentialing. <i>Physics in Medicine and Biology</i> , 2017, 62, 4293-4299.	3.0	17
30	Dosimetry for Quantitative Analysis of the Effects of Low-Dose Ionizing Radiation in Radiation Therapy Patients. <i>Radiation Research</i> , 2006, 165, 240-247.	1.5	16
31	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. <i>Radiation and Environmental Biophysics</i> , 2010, 49, 261-270.	1.4	15
32	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
33	Short Communication: Nanoparticle ThermoTherapy and External Beam Radiation Therapy for Human Prostate Cancer Cells. <i>Cancer Biotherapy and Radiopharmaceuticals</i> , 2008, 23, 265-271.	1.0	14
34	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
35	Nanomolecular HLA-DR10 Antibody Mimics: A Potent System for Molecular Targeted Therapy and Imaging. <i>Cancer Biotherapy and Radiopharmaceuticals</i> , 2008, 23, 783-795.	1.0	12
36	A virtual dosimetry audit – Towards transferability of gamma index analysis between clinical trial QA groups. <i>Radiotherapy and Oncology</i> , 2017, 125, 398-404.	0.6	12

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37	Comparison between the TRS-398 code of practice and the TG-51 dosimetry protocol for flattening filter free beams. <i>Physics in Medicine and Biology</i> , 2016, 61, N362-N372.	3.0	11
38	Commissioning of a <scp>PTW</scp> 34070 large-area plane-parallel ionization chamber for small field megavoltage photon dosimetry. <i>Journal of Applied Clinical Medical Physics</i> , 2017, 18, 206-217.	1.9	11
39	Remote dosimetric auditing for intensity modulated radiotherapy: A pilot study. <i>Physics and Imaging in Radiation Oncology</i> , 2017, 4, 26-31.	2.9	11
40	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
41	Technical note: TROC 15.01 SPARK trial multi-institutional imaging dose measurement. <i>Journal of Applied Clinical Medical Physics</i> , 2017, 18, 358-363.	1.9	10
42	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
43	Continuous breath-hold assessment during breast radiotherapy using portal imaging. <i>Physics and Imaging in Radiation Oncology</i> , 2018, 5, 64-68.	2.9	9
44	Radiation phantom with humanoid shape and adjustable thickness (RPHAT). <i>Physics in Medicine and Biology</i> , 2004, 49, N125-N129.	3.0	8
45	Measuring the dose in bone for spine stereotactic body radiotherapy. <i>Physica Medica</i> , 2021, 84, 265-273.	0.7	8
46	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
47	Long term OSLD reader stability in the ACDS level one audit. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2015, 38, 151-156.	1.3	7
48	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
49	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
50	Film dosimetry in the peripheral region using multiple sensitometric curves. <i>Medical Physics</i> , 2004, 31, 327-332.	3.0	6
51	A remote EPID-based dosimetric TPS-planned audit of centers for clinical trials: outcomes and analysis of contributing factors. <i>Radiation Oncology</i> , 2018, 13, 178.	2.7	6
52	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
53	Energy deposition of electrons in low-, medium- and high-Z material: Comparison of the Monte Carlo transport code EGS4 with experiment. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 1999, 152, 212-220.	1.4	5
54	XINPUT: A program to edit DOSRZ input files. <i>Medical Physics</i> , 1999, 26, 760-762.	3.0	5

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55	Comparison of normal tissue pharmacokinetics with <sup>111</sup> In/ <sup>90</sup> Y monoclonal antibody m170 for breast and prostate cancer. International Journal of Radiation Oncology Biology Physics, 2006, 66, 1192-1198.	0.8	5
56	Credentialing of vertebral stereotactic ablative body radiotherapy in a multi-centre trial. Physica Medica, 2020, 72, 16-21.	0.7	5
57	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
58	A system for real-time monitoring of breath-hold via assessment of internal anatomy in tangential breast radiotherapy. Journal of Applied Clinical Medical Physics, 2022, 23, .	1.9	4
59	Trust, but verify – Accuracy of clinical commercial radiation Treatment Planning Systems. Journal of Physics: Conference Series, 2014, 489, 012094.	0.4	3
60	Methodology of thermal drift measurements for surface guided radiation therapy systems and clinical impact assessment illustrated on the C-Rad Catalyst+ÅHD system. Technical Innovations and Patient Support in Radiation Oncology, 2022, 21, 58-63.	1.9	3
61	MINERVA: A multi-modality plugin-based radiation therapy treatment planning system. Radiation Protection Dosimetry, 2005, 116, 202-207.	0.8	2
62	Characteristics of dimeric (bis) bidentate selective high affinity ligands as HLA-DR10 beta antibody mimics targeting non-Hodgkin's lymphoma. International Journal of Oncology, 0, , .	3.3	2
63	A novel and independent method for time-resolved gantry angle quality assurance for <sc>VMAT</sc>. Journal of Applied Clinical Medical Physics, 2017, 18, 134-142.	1.9	2
64	Impact of magnetic fields on dose measurement with small ion chambers illustrated in high-resolution response maps. Medical Physics, 2019, 46, 3298-3305.	3.0	2
65	Utilization of Image-Guided Radiation Therapy Equipment to Enhance Stereotactic Body Radiation Therapy Commissioning. Radiosurgery, 2010, , 397-402.	0.1	1
66	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
67	Empirical study of the spatial variation of recombination, polarity and polarization effects in ionization chambers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 914, 15-24.	1.6	1
68	Excessive applicator radiation leakage for a common therapeutic kilovoltage system. British Journal of Radiology, 2019, 92, 20180743.	2.2	1
69	SU-CC-010: Initial Assessment of Peripheral Dose for Image Guided Radiation Therapy (IGRT) Using Cone Beam CT. Medical Physics, 2008, 35, 2704-2704.	3.0	1
70	The effect of the horizontal metallic drive on reference dosimetry in the SNC 3D scanner water tank. Journal of Applied Clinical Medical Physics, 2020, 21, 95-101.	1.9	0
71	SU-FF-T-341: New BEAMnrc Tools for Photon and Electron Beam Model Analysis. Medical Physics, 2006, 33, 2125-2125.	3.0	0
72	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

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73	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
74	SU-FF-T-273: Improved Calculation of Energy Spectra From Electron Depth Dose Curves. Medical Physics, 2006, 33, 2110-2110.	3.0	0
75	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
76	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
77	TU-FF-A1-02: Development of a Fluence Benchmark for Clinical Electron Beams. Medical Physics, 2007, 34, 2574-2574.	3.0	0
78	TU-FF-A1-01: Electron Spectra Unfolding From Open Field Depth Dose Curves. Medical Physics, 2007, 34, 2574-2574.	3.0	0
79	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
80	SU-GG-J-123: Making High Volume OBI CBCT Work in "the Real World". Medical Physics, 2008, 35, 2707-2707.	3.0	0
81	SU-FF-T-367: Surface Dose Measurements with OneDose MOSFET System. Medical Physics, 2009, 36, 2606-2606.	3.0	0
82	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
83	MO-D-105-04: A Nation-Wide Three Level Audit Service - the Australian Experience. Medical Physics, 2013, 40, 394-395.	3.0	0