

Wolfgang Lechner

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

521
citations

840585

11
h-index

752573

20
g-index

22
all docs

22
docs citations

22
times ranked

528
citing authors

#	ARTICLE	IF	CITATIONS
1	Detector to detector corrections: A comprehensive experimental study of detector specific correction factors for beam output measurements for small radiotherapy beams. <i>Medical Physics</i> , 2014, 41, 072103.	1.6	124
2	Detector comparison for small field output factor measurements in flattening filter free photon beams. <i>Radiotherapy and Oncology</i> , 2013, 109, 356-360.	0.3	74
3	Characteristic of EBT-XD and EBT3 radiochromic film dosimetry for photon and proton beams. <i>Physics in Medicine and Biology</i> , 2018, 63, 065007.	1.6	62
4	A multinational audit of small field output factors calculated by treatment planning systems used in radiotherapy. <i>Physics and Imaging in Radiation Oncology</i> , 2018, 5, 58-63.	1.2	37
5	Evaluation of treatment plan quality of IMRT and VMAT with and without flattening filter using Pareto optimal fronts. <i>Radiotherapy and Oncology</i> , 2013, 109, 437-441.	0.3	36
6	Lateral response heterogeneity of Bragg peak ionization chambers for narrow-beam photon and proton dosimetry. <i>Physics in Medicine and Biology</i> , 2017, 62, 9189-9206.	1.6	27
7	Global availability of dosimetry audits in radiotherapy: The IAEA dosimetry audit networks database. <i>Physics and Imaging in Radiation Oncology</i> , 2018, 5, 1-4.	1.2	24
8	Advanced Radiation DOSimetry phantom (ARDOS): a versatile breathing phantom for 4D radiation therapy and medical imaging. <i>Physics in Medicine and Biology</i> , 2017, 62, 8136-8153.	1.6	23
9	Basic Properties of a New Polymer Gel for 3D-Dosimetry at High Dose-Rates Typical for FFF Irradiation Based on Dithiothreitol and Methacrylic Acid (MAGADIT): Sensitivity, Range, Reproducibility, Accuracy, Dose Rate Effect and Impact of Oxygen Scavenger. <i>Polymers</i> , 2019, 11, 1717.	2.0	21
10	Testing the methodology for a dosimetric end-to-end audit of IMRT/VMAT: results of IAEA multicentre and national studies. <i>Acta Oncologica</i> , 2019, 58, 1731-1739.	0.8	19
11	The influence of errors in small field dosimetry on the dosimetric accuracy of treatment plans. <i>Acta Oncologica</i> , 2020, 59, 511-517.	0.8	19
12	Comparison of CBCT conversion methods for dose calculation in the head and neck region. <i>Zeitschrift Fur Medizinische Physik</i> , 2020, 30, 289-299.	0.6	13
13	Cone beam CT based validation of neural network generated synthetic CTs for radiotherapy in the head region. <i>Medical Physics</i> , 2021, 48, 4560-4571.	1.6	10
14	IAEA methodology for on-site end-to-end IMRT/VMAT audits: an international pilot study. <i>Acta Oncologica</i> , 2020, 59, 141-148.	0.8	9
15	An analytical formalism for the assessment of dose uncertainties due to positioning uncertainties. <i>Medical Physics</i> , 2020, 47, 1357-1363.	1.6	7
16	Absorbed dose measurements in the build-up region of flattened versus unflattened megavoltage photon beams. <i>Zeitschrift Fur Medizinische Physik</i> , 2016, 26, 177-183.	0.6	4
17	Technical Note: On the impact of the incident electron beam energy on the primary dose component of flattening filter free photon beams. <i>Medical Physics</i> , 2016, 43, 4507-4513.	1.6	3
18	Equivalent (uniform) square field sizes of flattening filter free photon beams. <i>Physics in Medicine and Biology</i> , 2017, 62, 7694-7713.	1.6	3

#	ARTICLE	IF	CITATIONS
19	Reply to Comment on "Lateral response heterogeneity of Bragg peak ionization chambers for narrow-beam photon and proton dosimetry". Physics in Medicine and Biology, 2019, 64, 198002.	1.6	2
20	Comparing the efficacy of ^{137}Cs - and electron-irradiation of PBMCs to promote secretion of paracrine, regenerative factors. Molecular Therapy - Methods and Clinical Development, 2021, 21, 14-27.	1.8	2
21	A multi-institutional evaluation of small field output factor determination following the recommendations of IAEA/AAPM TRS483. Medical Physics, 0, , .	1.6	2
22	Reply to comment on "Lateral response heterogeneity of Bragg peak ionization chambers for narrow-beam photon and proton dosimetry". Physics in Medicine and Biology, 2021, 66, 168001.	1.6	0