Daniela Thorwarth

List of Publications by Year in descending order

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Version: 2024-02-01

98 papers 5,358 citations

33 h-index 91884 69 g-index

105 all docs

 $\begin{array}{c} 105 \\ \\ \text{docs citations} \end{array}$

105 times ranked 5662 citing authors

#	Article	IF	Citations
1	Clinical evaluation of autonomous, unsupervised planning integrated in MR-guided radiotherapy for prostate cancer. Radiotherapy and Oncology, 2022, 168, 229-233.	0.6	7
2	Five years, 20 volumes and 300 publications of Physics and Imaging in Radiation Oncology. Physics and Imaging in Radiation Oncology, 2022, 21, 123-125.	2.9	2
3	Dose escalation to hypoxic subvolumes in head and neck cancer: A randomized phase II study using dynamic [18F]FMISO PET/CT. Radiotherapy and Oncology, 2022, 171, 30-36.	0.6	22
4	Simulation CT-based radiomics for prediction of response after neoadjuvant chemo-radiotherapy in patients with locally advanced rectal cancer. Radiation Oncology, 2022, 17, 84.	2.7	11
5	1.5ÂT MR-linac planning study to compare two different strategies of rectal boost irradiation. Clinical and Translational Radiation Oncology, 2021, 26, 86-91.	1.7	13
6	Initial Feasibility and Clinical Implementation of Daily MR-Guided Adaptive Head and Neck Cancer Radiation Therapy on a 1.5T MR-Linac System: Prospective R-IDEAL 2a/2b Systematic Clinical Evaluation of Technical Innovation. International Journal of Radiation Oncology Biology Physics, 2021, 109, 1606-1618.	0.8	52
7	Technical Challenges of Real-Time Adaptive MR-Guided Radiotherapy. Frontiers in Oncology, 2021, 11, 634507.	2.8	38
8	Prospective Image Quality and Lesion Assessment in the Setting of MR-Guided Radiation Therapy of Prostate Cancer on an MR-Linac at 1.5 T: A Comparison to a Standard 3 T MRI. Cancers, 2021, 13, 1533.	3.7	14
9	Artificial Intelligence in magnetic Resonance guided Radiotherapy: Medical and physical considerations on state of art and future perspectives. Physica Medica, 2021, 85, 175-191.	0.7	60
10	First experience of autonomous, un-supervised treatment planning integrated in adaptive MR-guided radiotherapy and delivered to a patient with prostate cancer. Radiotherapy and Oncology, 2021, 159, 197-201.	0.6	23
11	Automatic 3D Monte-Carlo-based secondary dose calculation for online verification of 1.5â€T magnetic resonance imaging guided radiotherapy. Physics and Imaging in Radiation Oncology, 2021, 19, 6-12.	2.9	14
12	Value of PET imaging for radiation therapy. Nuklearmedizin - NuclearMedicine, 2021, 60, 326-343.	0.7	2
13	Value of PET imaging for radiation therapy. Strahlentherapie Und Onkologie, 2021, 197, 1-23.	2.0	16
14	Professional practice changes in radiotherapy physics during the COVID-19 pandemic. Physics and Imaging in Radiation Oncology, 2021, 19, 25-32.	2.9	5
15	Integration of quantitative imaging biomarkers in clinical trials for MR-guided radiotherapy: Conceptual guidance for multicentre studies from the MR-Linac Consortium Imaging Biomarker Working Group. European Journal of Cancer, 2021, 153, 64-71.	2.8	21
16	Daily Intravoxel Incoherent Motion (IVIM) In Prostate Cancer Patients During MR-Guided Radiotherapyâ€"A Multicenter Study. Frontiers in Oncology, 2021, 11, 705964.	2.8	22
17	A novel approach for radiotherapy dose escalation in rectal cancer using online MR-guidance and rectal ultrasound gel filling $\hat{a} \in \text{``Rationale and first in human. Radiotherapy and Oncology, 2021, 164, 37-42.}$	0.6	12
18	Automatic VMAT planning for post-operative prostate cancer cases using particle swarm optimization: A proof of concept study. Physica Medica, 2020, 69, 101-109.	0.7	10

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19	Partial breast irradiation with the 1.5ÂT MR-Linac: First patient treatment and analysis of electron return and stream effects. Radiotherapy and Oncology, 2020, 145, 30-35.	0.6	54
20	ADC measurements on the Unity MR-linac – A recommendation on behalf of the Elekta Unity MR-linac consortium. Radiotherapy and Oncology, 2020, 153, 106-113.	0.6	60
21	Single-fraction magnetic resonance guided stereotactic radiotherapy – A game changer?. Physics and Imaging in Radiation Oncology, 2020, 14, 95-96.	2.9	6
22	Comparison of patient stratification by computed tomography radiomics and hypoxia positron emission tomography in head-and-neck cancer radiotherapy. Physics and Imaging in Radiation Oncology, 2020, 15, 52-59.	2.9	2
23	Quality assurance of IMRT treatment plans for a 1.5 T MR-linac using a 2D ionization chamber array and a static solid phantom. Physics in Medicine and Biology, 2020, 65, 16NT01.	3.0	20
24	Future directions on the merge of quantitative imaging and artificial intelligence in radiation oncology. Physics and Imaging in Radiation Oncology, 2020, 15, 44-45.	2.9	3
25	Professional quality of life and burnout among medical physicists working in radiation oncology: The role of alexithymia and empathy. Physics and Imaging in Radiation Oncology, 2020, 15, 38-43.	2.9	22
26	Influence of beam quality on reference dosimetry correction factors in magnetic resonance guided radiation therapy. Physics and Imaging in Radiation Oncology, 2020, 16, 95-98.	2.9	3
27	Quantitative magnetic resonance imaging on hybrid magnetic resonance linear accelerators: Perspective on technical and clinical validation. Physics and Imaging in Radiation Oncology, 2020, 16, 69-73.	2.9	36
28	The role of alexithymia and empathy on radiation therapists' professional quality of life. Technical Innovations and Patient Support in Radiation Oncology, 2020, 15, 29-36.	1.9	11
29	Professional quality of life and burnout amongst radiation oncologists: The impact of alexithymia and empathy. Radiotherapy and Oncology, 2020, 147, 162-168.	0.6	22
30	Image guidance in radiation therapy for better cure of cancer. Molecular Oncology, 2020, 14, 1470-1491.	4.6	63
31	The Image Biomarker Standardization Initiative: Standardized Quantitative Radiomics for High-Throughput Image-based Phenotyping. Radiology, 2020, 295, 328-338.	7.3	1,869
32	PET/MRI and genetic intrapatient heterogeneity in head and neck cancers. Strahlentherapie Und Onkologie, 2020, 196, 542-551.	2.0	8
33	Quantitative imaging for radiotherapy purposes. Radiotherapy and Oncology, 2020, 146, 66-75.	0.6	71
34	Experimental determination of magnetic field correction factors for ionization chambers in parallel and perpendicular orientations. Physics in Medicine and Biology, 2020, 65, 245044.	3.0	5
35	Radiotherapy Target Volume Definition Based on PET/CT Imaging Data. Medical Radiology, 2020, , 81-89.	0.1	0
36	Target miss using PTV-based IMRT compared to robust optimization via coverage probability concept in prostate cancer. Acta Oncol \tilde{A}^3 gica, 2020, 59, 911-917.	1.8	5

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37	Prospective evaluation of probabilistic dose-escalated IMRT in prostate cancer. Radiology and Oncology, 2020, 55, 88-96.	1.7	2
38	Adapting training for medical physicists to match future trends in radiation oncology. Physics and Imaging in Radiation Oncology, 2019, 11, 71-75.	2.9	6
39	Development and validation of a 1.5ÂT MRâ€Linac full accelerator head and cryostat model for Monte Carlo dose simulations. Medical Physics, 2019, 46, 5304-5313.	3.0	19
40	A finite element method for the determination of the relative response of ionization chambers in MR-linacs: simulation and experimental validation up to 1.5 T. Physics in Medicine and Biology, 2019, 64, 135011.	3.0	30
41	Radiogenomics in head and neck cancer: correlation of radiomic heterogeneity and somatic mutations in TP53, FAT1 and KMT2D. Strahlentherapie Und Onkologie, 2019, 195, 771-779.	2.0	29
42	Prospective Evaluation of a Tumor Control Probability Model Based on Dynamic ¹⁸ F-FMISO PET for Head and Neck Cancer Radiotherapy. Journal of Nuclear Medicine, 2019, 60, 1698-1704.	5.0	37
43	Rationale for Combining Radiotherapy and Immune Checkpoint Inhibition for Patients With Hypoxic Tumors. Frontiers in Immunology, 2019, 10, 407.	4.8	44
44	Imaging science and development in modern high-precision radiotherapy. Physics and Imaging in Radiation Oncology, 2019, 12, 63-66.	2.9	7
45	Retrospective analysis of fractionated intensity-modulated radiotherapy (IMRT) in the interdisciplinary management of primary optic nerve sheath meningiomas. Radiation Oncology, 2019, 14, 240.	2.7	25
46	Comparison of treatment plans for aÂhigh-field MRI-linac and aÂconventional linac for esophageal cancer. Strahlentherapie Und Onkologie, 2019, 195, 327-334.	2.0	24
47	Precision of T2 TSE MRI-CT-image fusions based on gold fiducials and repetitive T2 TSE MRI-MRI-fusions for adaptive IGRT of prostate cancer by using phantom and patient data. Acta Oncológica, 2019, 58, 88-94.	1.8	15
48	ESTRO ACROP: Technology for precision small animal radiotherapy research: Optimal use and challenges. Radiotherapy and Oncology, 2018, 126, 471-478.	0.6	88
49	Voxel-wise correlation of functional imaging parameters in HNSCC patients receiving PET/MRI in an irradiation setup. Strahlentherapie Und Onkologie, 2018, 194, 719-726.	2.0	9
50	Biologically adapted radiation therapy. Zeitschrift Fur Medizinische Physik, 2018, 28, 177-183.	1.5	21
51	Molecular Imaging-Guided Radiotherapy for the Treatment of Head-and-Neck Squamous Cell Carcinoma: Does it Fulfill the Promises?. Seminars in Radiation Oncology, 2018, 28, 35-45.	2.2	35
52	Potentials and challenges of diffusion-weighted magnetic resonance imaging in radiotherapy. Clinical and Translational Radiation Oncology, 2018, 13, 29-37.	1.7	47
53	Quantitative Imaging for Radiation Oncology. International Journal of Radiation Oncology Biology Physics, 2018, 102, 683-686.	0.8	13
54	Ionization chamber correction factors for MR-linacs. Physics in Medicine and Biology, 2018, 63, 11NT03.	3.0	41

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55	Assessment of image quality of a radiotherapy-specific hardware solution for PET/MRI in head and neck cancer patients. Radiotherapy and Oncology, 2018, 128, 485-491.	0.6	32
56	Automatic replanning of VMAT plans for different treatment machines: AÂtemplate-based approach using constrained optimization. Strahlentherapie Und Onkologie, 2018, 194, 921-928.	2.0	1
57	Personalized precision radiotherapy by integration of multi-parametric functional and biological imaging in prostate cancer: A feasibility study. Zeitschrift Fur Medizinische Physik, 2017, 27, 21-30.	1.5	29
58	Prognostic value of dynamic hypoxia PET in head and neck cancer: Results from a planned interim analysis of a randomized phase II hypoxia-image guided dose escalation trial. Radiotherapy and Oncology, 2017, 124, 526-532.	0.6	107
59	Comparison of DCE-MRI kinetic parameters and FMISO-PET uptake parameters in head and neck cancer patients. Medical Physics, 2017, 44, 2358-2368.	3.0	27
60	Distortion correction of diffusion-weighted magnetic resonance imaging of the head and neck in radiotherapy position. Acta Oncol \tilde{A}^3 gica, 2017, 56, 1659-1663.	1.8	12
61	Hypoxia PET imaging techniques: data acquisition and analysis. Clinical and Translational Imaging, 2017, 5, 489-496.	2.1	3
62	Overlap of highly FDG-avid and FMISO hypoxic tumor subvolumes in patients with head and neck cancer. Acta Oncol $ ilde{A}^3$ gica, 2017, 56, 1577-1582.	1.8	20
63	Geometric analysis of loco-regional recurrences in relation to pre-treatment hypoxia in patients with head and neck cancer. Acta Oncol $ ilde{A}^3$ gica, 2017, 56, 1571-1576.	1.8	23
64	Longitudinal multi-parametric imaging in radiation oncology: boon or bane?. Acta Oncol \tilde{A}^3 gica, 2017, 56, 501-502.	1.8	1
65	Influence of a transverse magnetic field on the dose deposited by a 6 MV linear accelerator. Current Directions in Biomedical Engineering, 2017, 3, 281-285.	0.4	7
66	Optimal orientation for ionization chambers in MRgRT reference dosimetry. Current Directions in Biomedical Engineering, 2017, 3, 273-275.	0.4	1
67	Experimental analysis of correction factors for reference dosimetry in a magnetic field. Current Directions in Biomedical Engineering, 2017, 3, 803-805.	0.4	1
68	Analysis of pairwise correlations in multi-parametric PET/MR data for biological tumor characterization and treatment individualization strategies. European Journal of Nuclear Medicine and Molecular Imaging, 2016, 43, 1199-1208.	6.4	24
69	Multiple training interventions significantly improve reproducibility of PET/CT-based lung cancer radiotherapy target volume delineation using an IAEA study protocol. Radiotherapy and Oncology, 2016, 121, 39-45.	0.6	19
70	FDG and Beyond. Recent Results in Cancer Research, 2016, 198, 163-173.	1.8	6
71	Imaging-Based Treatment Adaptation in Radiation Oncology. Journal of Nuclear Medicine, 2015, 56, 1922-1929.	5.0	27
72	Identification of Patient Benefit From Proton Therapy for Advanced Head and Neck Cancer Patients Based on Individual and Subgroup Normal Tissue Complication Probability Analysis. International Journal of Radiation Oncology Biology Physics, 2015, 92, 1165-1174.	0.8	89

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73	In reply to M. Witte: Commenting â€~Multi-modality functional image guided dose escalation in the presence of uncertainties'. Radiotherapy and Oncology, 2015, 115, 150.	0.6	1
74	PET/CT imaging for target volume delineation in curative intent radiotherapy of non-small cell lung cancer: IAEA consensus report 2014. Radiotherapy and Oncology, 2015, 116, 27-34.	0.6	120
75	Functional imaging for radiotherapy treatment planning: current status and future directions—a review. British Journal of Radiology, 2015, 88, 20150056.	2.2	64
76	Comparison of [18F]-FMISO, [18F]-FAZA and [18F]-HX4 for PET imaging of hypoxia – a simulation study. Acta Oncológica, 2015, 54, 1370-1377.	1.8	61
77	Robustness of quantitative hypoxia PET image analysis for predicting local tumor control. Acta Oncol $ ilde{A}^3$ gica, 2015, 54, 1364-1369.	1.8	22
78	NTCP reduction for advanced head and neck cancer patients using proton therapy for complete or sequential boost treatment versus photon therapy. Acta Oncol \tilde{A}^3 gica, 2015, 54, 1658-1664.	1.8	36
79	Multi-modality functional image guided dose escalation in the presence of uncertainties. Radiotherapy and Oncology, 2014, 111, 354-359.	0.6	32
80	Combined PET/CT for IMRT treatment planning of NSCLC: Contrast-enhanced CT images for Monte Carlo dose calculation. Physica Medica, 2013, 29, 644-649.	0.7	6
81	Prospective evaluation of a hydrogel spacer for rectal separation in dose-escalated intensity-modulated radiotherapy for clinically localized prostate cancer. BMC Cancer, 2013, 13, 27.	2.6	39
82	Potential role of PET/MRI in radiotherapy treatment planning. Clinical and Translational Imaging, 2013, 1, 45-51.	2.1	44
83	Combined PET/MR Imaging Using 68Ga-DOTATOC for Radiotherapy Treatment Planning in Meningioma Patients. Recent Results in Cancer Research, 2013, 194, 425-439.	1.8	28
84	Correlation between tumor oxygenation and 18F-fluoromisonidazole PET data simulated based on microvessel images. Acta Oncol A ³ gica, 2013, 52, 1308-1313.	1.8	15
85	A strategy for multimodal deformable image registration to integrate PET/MR into radiotherapy treatment planning. Acta Oncol $ ilde{A}^3$ gica, 2013, 52, 1353-1359.	1.8	89
86	Modelling and simulation of the influence of acute and chronic hypoxia on [¹⁸ F]fluoromisonidazole PET imaging. Physics in Medicine and Biology, 2012, 57, 1675-1684.	3.0	30
87	Comparison of different adjuvant radiotherapy approaches in childhood bladder/prostate rhabdomyosarcoma treated with conservative surgery. Strahlentherapie Und Onkologie, 2011, 187, 715-721.	2.0	30
88	Simultaneous 68Ga-DOTATOC-PET/MRI for IMRT Treatment Planning for Meningioma: First Experience. International Journal of Radiation Oncology Biology Physics, 2011, 81, 277-283.	0.8	75
89	Modelling and simulation of [18F]fluoromisonidazole dynamics based on histology-derived microvessel maps. Physics in Medicine and Biology, 2011, 56, 2045-2057.	3.0	54
90	Implementation of hypoxia imaging into treatment planning and delivery. Radiotherapy and Oncology, 2010, 97, 172-175.	0.6	83

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91	Physical radiotherapy treatment planning based on functional PET/CT data. Radiotherapy and Oncology, 2010, 96, 317-324.	0.6	101
92	Dose painting with IMPT, helical tomotherapy and IMXT: A dosimetric comparison. Radiotherapy and Oncology, 2008, 86, 30-34.	0.6	63
93	Analysis of the rigid and deformable component of setup inaccuracies on portal images in head and neck radiotherapy. Physics in Medicine and Biology, 2007, 52, 5721-5733.	3.0	13
94	Hypoxia Dose Painting by Numbers: A Planning Study. International Journal of Radiation Oncology Biology Physics, 2007, 68, 291-300.	0.8	269
95	A Model of Reoxygenation Dynamics of Head-And-Neck Tumors Based on Serial 18F-Fluoromisonidazole Positron Emission Tomography Investigations. International Journal of Radiation Oncology Biology Physics, 2007, 68, 515-521.	0.8	76
96	Combined uptake of [18F]FDG and [18F]FMISO correlates with radiation therapy outcome in head-and-neck cancer patients. Radiotherapy and Oncology, 2006, 80, 151-156.	0.6	148
97	Kinetic analysis of dynamic 18F-fluoromisonidazole PET correlates with radiation treatment outcome in head-and-neck cancer. BMC Cancer, 2005, 5, 152.	2.6	156
98	A kinetic model for dynamic [18F]-Fmiso PET data to analyse tumour hypoxia. Physics in Medicine and Biology, 2005, 50, 2209-2224.	3.0	159