

Andreas Wetscherek

List of Publications by Year in descending order

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42
papers

910
citations

516710

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43
all docs

43
docs citations

43
times ranked

1268
citing authors

#	ARTICLE	IF	CITATIONS
1	MRI commissioning of 1.5T MR-linac systems – a multi-institutional study. <i>Radiotherapy and Oncology</i> , 2019, 132, 114-120.	0.6	111
2	MRI-guided lung SBRT: Present and future developments. <i>Physica Medica</i> , 2017, 44, 139-149.	0.7	94
3	Flow-compensated intravoxel incoherent motion diffusion imaging. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 410-419.	3.0	83
4	4D respiratory motion-compensated image reconstruction of free-breathing radial MR data with very high undersampling. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 1170-1183.	3.0	71
5	ADC measurements on the Unity MR-linac – A recommendation on behalf of the Elekta Unity MR-linac consortium. <i>Radiotherapy and Oncology</i> , 2020, 153, 106-113.	0.6	60
6	Magnetic resonance imaging in precision radiation therapy for lung cancer. <i>Translational Lung Cancer Research</i> , 2017, 6, 689-707.	2.8	56
7	Automatic reconstruction of the delivered dose of the day using MR-linac treatment log files and online MR imaging. <i>Radiotherapy and Oncology</i> , 2020, 145, 88-94.	0.6	52
8	Tumour auto-contouring on 2d cine MRI for locally advanced lung cancer: A comparative study. <i>Radiotherapy and Oncology</i> , 2017, 125, 485-491.	0.6	30
9	T2-Weighted 4D Magnetic Resonance Imaging for Application in Magnetic Resonance-Guided Radiotherapy Treatment Planning. <i>Investigative Radiology</i> , 2017, 52, 563-573.	6.2	29
10	Respiratory motion compensation for simultaneous PET/MR based on highly undersampled MR data. <i>Medical Physics</i> , 2016, 43, 6234-6245.	3.0	28
11	Characterization of the diffusion coefficient of blood. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 2752-2758.	3.0	25
12	On the Field Strength Dependence of Bi- and Triexponential Intravoxel Incoherent Motion (IVIM) Parameters in the Liver. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 50, 1883-1892.	3.4	25
13	Principal component analysis for fast and model-free denoising of multi b-value diffusion-weighted MR images. <i>Physics in Medicine and Biology</i> , 2019, 64, 105015.	3.0	22
14	Daily Intravoxel Incoherent Motion (IVIM) In Prostate Cancer Patients During MR-Guided Radiotherapy – A Multicenter Study. <i>Frontiers in Oncology</i> , 2021, 11, 705964.	2.8	22
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. <i>European Journal of Cancer</i> , 2021, 153, 64-71.	2.8	21
16	Rapid 4D-MRI reconstruction using a deep radial convolutional neural network: Dracula. <i>Radiotherapy and Oncology</i> , 2021, 159, 209-217.	0.6	18
17	Super-resolution T2-weighted 4D MRI for image guided radiotherapy. <i>Radiotherapy and Oncology</i> , 2018, 129, 486-493.	0.6	16
18	Realizing the potential of magnetic resonance image guided radiotherapy in gynaecological and rectal cancer. <i>British Journal of Radiology</i> , 2019, 92, 20180670.	2.2	15

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19	Contrast-to-noise ratio analysis of microscopic diffusion anisotropy indices in q-space trajectory imaging. <i>Zeitschrift Fur Medizinische Physik</i> , 2020, 30, 4-16.	1.5	12
20	Evaluation of MRI-derived surrogate signals to model respiratory motion. <i>Biomedical Physics and Engineering Express</i> , 2020, 6, 045015.	1.2	12
21	Texture analysis using proton density and T2 relaxation in patients with histological usual interstitial pneumonia (UIP) or nonspecific interstitial pneumonia (NSIP). <i>PLoS ONE</i> , 2017, 12, e0177689.	2.5	12
22	Optimal acquisition scheme for flow-compensated intravoxel incoherent motion diffusion-weighted imaging in the abdomen: An accurate and precise clinically feasible protocol. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 1003-1015.	3.0	11
23	An optimized b-value distribution for triexponential intravoxel incoherent motion (IVIM) in the liver. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 2095-2108.	3.0	11
24	The impact of 2D cine MR imaging parameters on automated tumor and organ localization for MR-guided real-time adaptive radiotherapy. <i>Physics in Medicine and Biology</i> , 2018, 63, 235005.	3.0	10
25	Synthetic 4D-CT of the thorax for treatment plan adaptation on MR-guided radiotherapy systems. <i>Physics in Medicine and Biology</i> , 2019, 64, 115005.	3.0	10
26	Eddy current compensated double diffusion encoded (DDE) MRI. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 328-335.	3.0	8
27	Regional Lung Ventilation Analysis Using Temporally Resolved Magnetic Resonance Imaging. <i>Journal of Computer Assisted Tomography</i> , 2016, 40, 899-906.	0.9	7
28	Audit feasibility for geometric distortion in magnetic resonance imaging for radiotherapy. <i>Physics and Imaging in Radiation Oncology</i> , 2020, 15, 80-84.	2.9	6
29	Delayed contrast dynamics as marker of regional impairment in pulmonary fibrosis using 5D MRI - a pilot study. <i>British Journal of Radiology</i> , 2020, 93, 20190121.	2.2	6
30	Echo time dependence of biexponential and triexponential intravoxel incoherent motion parameters in the liver. <i>Magnetic Resonance in Medicine</i> , 2022, 87, 859-871.	3.0	6
31	Quantitative susceptibility mapping and ^{23}Na imaging-based <i>in vitro</i> characterization of blood clotting kinetics. <i>NMR in Biomedicine</i> , 2018, 31, e3926.	2.8	5
32	Quantitative analysis of diffusion weighted imaging in rectal cancer during radiotherapy using a magnetic resonance imaging integrated linear accelerator. <i>Physics and Imaging in Radiation Oncology</i> , 2022, 23, 32-37.	2.9	4
33	Twice-refocused stimulated echo diffusion imaging: Measuring diffusion time dependence at constant T1 weighting. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 1741-1749.	3.0	3
34	On contrast mechanisms in k-space imaging. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 2526-2533.	3.0	2
35	PO-0959: Dosimetric Evaluation of Midposition Pseudo-CT for MR-only Lung Radiotherapy Treatment planning. <i>Radiotherapy and Oncology</i> , 2018, 127, S526-S527.	0.6	2
36	P2.05-042 Development of Thoracic Magnetic Resonance Imaging (MRI) for Radiotherapy Planning. <i>Journal of Thoracic Oncology</i> , 2017, 12, S1057.	1.1	1

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37	OC-0411: Investigation of MRI-derived surrogate signals for modelling respiratory motion on an MRI-Linac. Radiotherapy and Oncology, 2018, 127, S211-S212.	0.6	1
38	OC-0413 MR-derived signals for respiratory motion models evaluated using sagittal and coronal datasets. Radiotherapy and Oncology, 2019, 133, S213-S214.	0.6	1
39	Efficient Online 4D Magnetic Resonance Imaging. , 2021, , .		1
40	Longitudinal Stability of MRI QA up to Two Years on Eight Clinical 1.5 T MR-Linacs. Frontiers in Physics, 0, 10, .	2.1	1
41	Five-dimensional respiratory and cardiac motion compensation for simultaneous PET/MR. , 2016, , .		0
42	OC-0155: Automated lung tumour delineation in cine MR images for image guided radiotherapy with an MR-Linac. Radiotherapy and Oncology, 2017, 123, S78.	0.6	0