

# Marc Kachelrieß

## List of Publications by Year in descending order

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Version: 2024-02-01

49  
papers

1,152  
citations

393982

19  
h-index

395343

33  
g-index

49  
all docs

49  
docs citations

49  
times ranked

1516  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dose reduction potential in diagnostic single energy CT through patient-specific prefilters and a wider range of tube voltages. <i>Medical Physics</i> , 2022, 49, 93-106.	1.6	7
2	CycN-Net: A Convolutional Neural Network Specialized for 4D CBCT Images Refinement. <i>IEEE Transactions on Medical Imaging</i> , 2021, 40, 3054-3064.	5.4	9
3	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.	1.0	6
4	High-quality initial image-guided 4D CBCT reconstruction. <i>Medical Physics</i> , 2020, 47, 2099-2115.	1.6	20
5	CT-based attenuation correction of whole-body radiotherapy treatment positioning devices in PET/MRI hybrid imaging. <i>Physics in Medicine and Biology</i> , 2020, 65, 23NT02.	1.6	4
6	Comparing the effectiveness and efficiency of various gating approaches for PBS proton therapy of pancreatic cancer using 4D-MRI datasets. <i>Physics in Medicine and Biology</i> , 2019, 64, 085011.	1.6	10
7	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.	1.6	10
8	4DMRI-based investigation on the interplay effect for pencil beam scanning proton therapy of pancreatic cancer patients. <i>Radiation Oncology</i> , 2019, 14, 30.	1.2	21
9	The value of iterative metal artifact reduction algorithms during antenna positioning for CT-guided microwave ablation. <i>International Journal of Hyperthermia</i> , 2019, 36, 1222-1231.	1.1	4
10	Real-time scatter estimation for medical CT using the deep scatter estimation: Method and robustness analysis with respect to different anatomies, dose levels, tube voltages, and data truncation. <i>Medical Physics</i> , 2019, 46, 238-249.	1.6	65
11	Motion vector field phase-to-amplitude resampling for 4D motion-compensated cone-beam CT. <i>Physics in Medicine and Biology</i> , 2018, 63, 035032.	1.6	8
12	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.	1.6	10
13	Two methods for reducing moving metal artifacts in cone-beam CT. <i>Medical Physics</i> , 2018, 45, 3671-3680.	1.6	8
14	Deep Scatter Estimation (DSE): Accurate Real-Time Scatter Estimation for X-Ray CT Using a Deep Convolutional Neural Network. <i>Journal of Nondestructive Evaluation</i> , 2018, 37, 1.	1.1	68
15	4D dose calculation for pencil beam scanning proton therapy of pancreatic cancer using repeated 4DMRI datasets. <i>Physics in Medicine and Biology</i> , 2018, 63, 165005.	1.6	18
16	Singular value-guided similarity filter improves detection of vessels in low-dose dynamic CT angiography: application to DIEP flap studies. <i>Physics in Medicine and Biology</i> , 2018, 63, 165003.	1.6	1
17	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.	1.9	71
18	Scatter correction using a primary modulator on a clinical angiography C-arm CT system. <i>Medical Physics</i> , 2017, 44, e125-e137.	1.6	12

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19	Noise reduction and functional maps image quality improvement in dynamic CT perfusion using a new k-means clustering guided bilateral filter (KMGB). Medical Physics, 2017, 44, 3464-3482.	1.6	27
20	Effects of arm truncation on the appearance of the halo artifact in 68Ga-PSMA-11 (HBED-CC) PET/MRI. European Journal of Nuclear Medicine and Molecular Imaging, 2017, 44, 1636-1646.	3.3	17
21	Improved clinical workflow for simultaneous whole-body PET/MRI using high-resolution CAIPIRINHA-accelerated MR-based attenuation correction. European Journal of Radiology, 2017, 96, 12-20.	1.2	24
22	MLAA-based attenuation correction of flexible hardware components in hybrid PET/MR imaging. EJNMMI Physics, 2017, 4, 12.	1.3	22
23	In Vivo Quantification of Myocardial Infarction in Mice Using Micro-CT and a Novel Blood Pool Agent. Contrast Media and Molecular Imaging, 2017, 2017, 1-7.	0.4	11
24	Investigation of the halo-artifact in 68Ga-PSMA-11-PET/MRI. PLoS ONE, 2017, 12, e0183329.	1.1	53
25	MLAA-based headpne attenuation estimation in hybrid PET/MR imaging. , 2016, , .		0
26	An efficient computational approach to model statistical correlations in photon counting x-ray detectors. Medical Physics, 2016, 43, 3945-3960.	1.6	21
27	The rotate-plus-shift C-arm trajectory. Part I. Complete data with less than 180° rotation. Medical Physics, 2016, 43, 2295-2302.	1.6	18
28	The rotate-plus-shift C-arm trajectory. Part II. Exact reconstruction from less than 180° rotation. Medical Physics, 2016, 43, 2303-2310.	1.6	4
29	Respiratory motion compensation for simultaneous PET/MR based on highly undersampled MR data. Medical Physics, 2016, 43, 6234-6245.	1.6	28
30	Advanced abdominal imaging with dual energy CT is feasible without increasing radiation dose. Cancer Imaging, 2016, 16, 15.	1.2	52
31	MR-consistent Simultaneous Reconstruction of Attenuation and Activity for Non-TOF PET/MR. IEEE Transactions on Nuclear Science, 2016, 63, 2443-2451.	1.2	10
32	Robust primary modulation-based scatter estimation for cone-beam CT. Medical Physics, 2015, 42, 469-478.	1.6	31
33	Performance of today's dual energy CT and future multi energy CT in virtual non-contrast imaging and in iodine quantification: A simulation study. Medical Physics, 2015, 42, 4349-4366.	1.6	181
34	The application of metal artifact reduction (MAR) in CT scans for radiation oncology by monoenergetic extrapolation with a DECT scanner. Zeitschrift Fur Medizinische Physik, 2015, 25, 314-325.	0.6	20
35	Prior-based artifact correction (PBAC) in computed tomography. Medical Physics, 2014, 41, 021906.	1.6	31
36	Monitoring cardiac motion in CT using a continuous wave radar embedded in the patient table. Medical Physics, 2014, 41, 081908.	1.6	7

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37	Assessment of dedicated low-dose cardiac micro-CT reconstruction algorithms using the left ventricular volume of small rodents as a performance measure. <i>Medical Physics</i> , 2014, 41, 051908.	1.6	11
38	Alpha image reconstruction (AIR): A new iterative CT image reconstruction approach using voxel-wise alpha blending. <i>Medical Physics</i> , 2014, 41, 061914.	1.6	6
39	Effects of ray profile modeling on resolution recovery in clinical CT. <i>Medical Physics</i> , 2014, 41, 021907.	1.6	16
40	Recent developments of dual-energy CT in oncology. <i>European Radiology</i> , 2014, 24, 930-939.	2.3	84
41	Artifact model-based respiratory motion compensation (MoCo) for simultaneous PET/MR based on strongly undersampled radial MR data. , 2014, , .		4
42	Artifact-resistant motion estimation with a patient-specific artifact model for motion-compensated cone-beam CT. <i>Medical Physics</i> , 2013, 40, 101913.	1.6	51
43	Self-adapting cyclic registration for motion-compensated cone-beam CT in image-guided radiation therapy. <i>Medical Physics</i> , 2012, 39, 7603-7618.	1.6	44
44	Running prior for patient motion correction in low-dose 3D+time interventional flat detector CT. , 2012, , .		1
45	Reducing intra plane blurring in dental panoramas. , 2012, , .		0
46	Digitization and visibility issues in flat detector CT: A simulation study. , 2012, , .		3
47	CT data completion based on prior scans. , 2012, , .		0
48	Empirical Cupping Correction for CT Scanners with Primary Modulation (ECCP). <i>Medical Physics</i> , 2012, 39, 825-831.	1.6	21
49	An adaptive genetic algorithm for misalignment estimation (AGAME) in spiral, sequential and circular cone-beam micro-CT. , 2011, , .		2