

Christoph Kolbitsch

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

1,110
citations

471061

17
h-index

414034

32
g-index

52
all docs

52
docs citations

52
times ranked

1561
citing authors

#	ARTICLE	IF	CITATIONS
1	Motion-compensated fat-water imaging for 3D cardiac MRI at ultra-high fields. <i>Magnetic Resonance in Medicine</i> , 2022, 87, 2621-2636.	1.9	4
2	<scp>Cardio-respiratory motion-corrected 3D</scp> cardiac <scp>water-fat MRI</scp> using <scp>model-based</scp> image reconstruction. <i>Magnetic Resonance in Medicine</i> , 2022, 88, 1561-1574.	1.9	1
3	Pilot tone-based motion correction for prospective respiratory compensated cardiac cine MRI. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 2403-2416.	1.9	20
4	3D Free-breathing multichannel absolute Mapping in the human body at 7T. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 2552-2567.	1.9	22
5	Adaptive sparsity level and dictionary size estimation for image reconstruction in accelerated 2D radial cine MRI. <i>Medical Physics</i> , 2021, 48, 178-192.	1.6	6
6	Respiratory motion correction for enhanced quantification of hepatic lesions in simultaneous PET and DCE-MR imaging. <i>Physics in Medicine and Biology</i> , 2021, 66, 095012.	1.6	8
7	An end-to-end trainable iterative network architecture for accelerated radial multi-coil 2D cine MR image reconstruction. <i>Medical Physics</i> , 2021, 48, 2412-2425.	1.6	19
8	Evaluation of synergistic image registration for motion-corrected coronary NaF-PET-MR. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021, 379, 20200202.	1.6	5
9	Synergistic tomographic image reconstruction: part 1. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021, 379, 20200189.	1.6	2
10	Synergistic tomographic image reconstruction: part 2. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021, 379, 20210111.	1.6	0
11	Motion estimation and correction for simultaneous PET/MR using SIRF and CIL. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021, 379, 20200208.	1.6	8
12	Imaging coronary plaques using 3D motion-compensated [18F]NaF PET/MR. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2021, 48, 2455-2465.	3.3	7
13	Spatio-Temporal Deep Learning-Based Undersampling Artefact Reduction for 2D Radial Cine MRI With Limited Training Data. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 703-717.	5.4	61
14	Fast myocardial T1 mapping using cardiac motion correction. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 438-451.	1.9	18
15	Respiratory motion corrected 4D flow using golden radial phase encoding. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 635-644.	1.9	16
16	SIRF: Synergistic Image Reconstruction Framework. <i>Computer Physics Communications</i> , 2020, 249, 107087.	3.0	35
17	Neural networks-based regularization for large-scale medical image reconstruction. <i>Physics in Medicine and Biology</i> , 2020, 65, 135003.	1.6	26
18	Flexible numerical simulation framework for dynamic PET-MR data. <i>Physics in Medicine and Biology</i> , 2020, 65, 145003.	1.6	3

#	ARTICLE	IF	CITATIONS
19	3D nonrigid motion correction for quantitative assessment of hepatic lesions in DCE-MRI. Magnetic Resonance in Medicine, 2019, 82, 1753-1766.	1.9	14
20	Large-Scale Bayesian Spatial-Temporal Regression with Application to Cardiac MR-Perfusion Imaging. SIAM Journal on Imaging Sciences, 2019, 12, 2035-2062.	1.3	4
21	Simultaneous high-resolution cardiac T ₁ mapping and cine imaging using model-based iterative image reconstruction. Magnetic Resonance in Medicine, 2019, 81, 1080-1091.	1.9	22
22	Joint cardiac and respiratory motion estimation for motion-corrected cardiac PET-MR. Physics in Medicine and Biology, 2019, 64, 015007.	1.6	24
23	Acceleration Strategies for Data Sampling in MRI. , 2018, , 167-186.		0
24	Fully integrated 3D high-resolution multicontrast abdominal PET-MR with high scan efficiency. Magnetic Resonance in Medicine, 2018, 79, 900-911.	1.9	13
25	Pixel-wise quantification of myocardial perfusion using spatial Tikhonov regularization. Physics in Medicine and Biology, 2018, 63, 215017.	1.6	6
26	Shearlet-based compressed sensing for fast 3D cardiac MR imaging using iterative reweighting. Physics in Medicine and Biology, 2018, 63, 235004.	1.6	9
27	Respiratory-resolved MR-based attenuation correction for motion-compensated cardiac PET-MR. Physics in Medicine and Biology, 2018, 63, 135008.	1.6	16
28	Cardiac and Respiratory Motion Correction for Simultaneous Cardiac PET/MR. Journal of Nuclear Medicine, 2017, 58, 846-852.	2.8	60
29	Novel MRI Technique Enables Non-Invasive Measurement of Atrial Wall Thickness. IEEE Transactions on Medical Imaging, 2017, 36, 1607-1614.	5.4	37
30	Autoadaptive motion modelling for MR-based respiratory motion estimation. Medical Image Analysis, 2017, 35, 83-100.	7.0	25
31	MR-Based Cardiac and Respiratory Motion-Compensation Techniques for PET-MR Imaging. PET Clinics, 2016, 11, 179-191.	1.5	40
32	Simulation study on factors affecting the detectability of coronary artery plaques in NaF PET imaging. , 2015, , .		0
33	Coupled motion and activity estimation from PET and MR data with motion model-based parameter reduction. , 2015, , .		0
34	Respiratory motion correction of PET using MR-constrained PET-PET registration. BioMedical Engineering OnLine, 2015, 14, 85.	1.3	11
35	Manifold learning based ECG-free breathing cardiac CINE MRI. Journal of Magnetic Resonance Imaging, 2015, 41, 1521-1527.	1.9	35
36	Comparison of image-based and reconstruction-based respiratory motion correction for golden radial phase encoding coronary MR angiography. Journal of Magnetic Resonance Imaging, 2015, 42, 964-971.	1.9	5

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37	Self-Aligning Manifolds for Matching Disparate Medical Image Datasets. Lecture Notes in Computer Science, 2015, 24, 363-374.	1.0	11
38	3D high-resolution atrial wall thickness maps using black-blood PSIR. Journal of Cardiovascular Magnetic Resonance, 2015, 17, P239.	1.6	8
39	Retrospective Rigid Motion Correction in k-Space for Segmented Radial MRI. IEEE Transactions on Medical Imaging, 2014, 33, 1-10.	5.4	32
40	A 3D MR-acquisition scheme for nonrigid bulk motion correction in simultaneous PET-MR. Medical Physics, 2014, 41, 082304.	1.6	33
41	A 3D MR-acquisition scheme for non-rigid bulk motion correction in simultaneous PET-MR. EJNMMI Physics, 2014, 1, A37.	1.3	2
42	Cardiac magnetic resonance and electroanatomical mapping of acute and chronic atrial ablation injury: a histological validation study. European Heart Journal, 2014, 35, 1486-1495.	1.0	123
43	High-resolution dynamic MR imaging of the thorax for respiratory motion correction of PET using groupwise manifold alignment. Medical Image Analysis, 2014, 18, 939-952.	7.0	36
44	Personalising population-based respiratory motion models of the heart using neighbourhood approximation based on learnt anatomical features. Medical Image Analysis, 2014, 18, 1015-1025.	7.0	5
45	Cardiac functional assessment without electrocardiogram using physiological self-navigation. Magnetic Resonance in Medicine, 2014, 71, 942-954.	1.9	14
46	A novel Bayesian respiratory motion model to estimate and resolve uncertainty in image-guided cardiac interventions. Medical Image Analysis, 2013, 17, 488-502.	7.0	15
47	Motion corrected compressed sensing for free-breathing dynamic cardiac MRI. Magnetic Resonance in Medicine, 2013, 70, 504-516.	1.9	142
48	Groupwise Simultaneous Manifold Alignment for High-Resolution Dynamic MR Imaging of Respiratory Motion. Lecture Notes in Computer Science, 2013, 23, 232-243.	1.0	13
49	Precise Thickness Measurements of Bowman's Layer, Epithelium, and Tear Film. Optometry and Vision Science, 2012, 89, E795-E802.	0.6	67
50	Hybrid Phase ordering with Automatic Window Selection (HybridPAWS) improves respiratory-navigator efficiency during 3D late-gadolinium enhancement CMR in patients with chronic heart failure and irregular respiratory pattern. Journal of Cardiovascular Magnetic Resonance, 2012, 14, .	1.6	0
51	Prospective high-resolution respiratory-resolved whole-heart MRI for image-guided cardiovascular interventions. Magnetic Resonance in Medicine, 2012, 68, 205-213.	1.9	11
52	Highly efficient whole-heart imaging using radial phase encoding-phase ordering with automatic window selection. Magnetic Resonance in Medicine, 2011, 66, 1008-1018.	1.9	16