

Kai Tobias Block

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

3,049
citations

430754

18
h-index

360920

35
g-index

37
all docs

37
docs citations

37
times ranked

3206
citing authors

#	ARTICLE	IF	CITATIONS
1	Subtle pitfalls in the search for faster medical imaging. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2203040119.	3.3	2
2	Assessing the qualitative and quantitative impacts of simple two-class vs multiple tissue-class MR-based attenuation correction for cardiac PET/MR. Journal of Nuclear Cardiology, 2021, 28, 2194-2204.	1.4	5
3	Free-breathing radial imaging using a pilot-tone radiofrequency transmitter for detection of respiratory motion. Magnetic Resonance in Medicine, 2021, 85, 2672-2685.	1.9	11
4	Magnetization-prepared GRASP MRI for rapid 3D T1 mapping and fat/water-separated T1 mapping. Magnetic Resonance in Medicine, 2021, 86, 97-114.	1.9	26
5	Comparison of image quality of subtracted and nonsubtracted breath hold VIBE and free breathing GRASP in the evaluation of renal masses. Clinical Imaging, 2021, 74, 15-18.	0.8	1
6	Diagnostic abdominal MR imaging on a prototype low-field 0.55T scanner operating at two different gradient strengths. Abdominal Radiology, 2021, 46, 5772-5780.	1.0	15
7	Magnetization transfer in magnetic resonance fingerprinting. Magnetic Resonance in Medicine, 2020, 84, 128-141.	1.9	52
8	Highly accelerated, real-time phase-contrast MRI using radial k -space sampling and GROG-GRASP reconstruction: a feasibility study in pediatric patients with congenital heart disease. NMR in Biomedicine, 2020, 33, e4240.	1.6	13
9	Free-breathing fat and R_2^* quantification in the liver using a stack-of-stars multi-echo acquisition with respiratory-resolved model-based reconstruction. Magnetic Resonance in Medicine, 2020, 84, 2592-2605.	1.9	17
10	The discrete Fourier transform for golden angle linogram sampling. Inverse Problems, 2019, 35, 125004.	1.0	1
11	Dynamic Contrast-Enhanced MRI to Differentiate Parotid Neoplasms Using Golden-Angle Radial Sparse Parallel Imaging. American Journal of Neuroradiology, 2019, 40, 1029-1036.	1.2	14
12	Optimization of MRI Turnaround Times Through the Use of Dockable Tables and Innovative Architectural Design Strategies. American Journal of Roentgenology, 2019, 212, 855-858.	1.0	26
13	Post-contrast T1-weighted spine 3T MRI in children using a golden-angle radial acquisition. Neuroradiology, 2019, 61, 341-349.	1.1	7
14	3D T1-weighted contrast-enhanced brain MRI in children using a fat-suppressed golden angle radial acquisition: an alternative to Cartesian inversion-recovery imaging. Clinical Imaging, 2019, 55, 112-118.	0.8	3
15	Hybrid T_2 - and T_1 -weighted radial acquisition for free-breathing abdominal examination. Magnetic Resonance in Medicine, 2018, 80, 1935-1948.	1.9	14
16	Evaluation of Transient Motion During Gadoteric Acid-Enhanced Multiphasic Liver Magnetic Resonance Imaging Using Free-Breathing Golden-Angle Radial Sparse Parallel Magnetic Resonance Imaging. Investigative Radiology, 2018, 53, 52-61.	3.5	41
17	Improved Detection of Small Pulmonary Nodules Through Simultaneous MR/PET Imaging. PET Clinics, 2018, 13, 89-95.	1.5	4
18	Role of High-Resolution Dynamic Contrast-Enhanced MRI with Golden-Angle Radial Sparse Parallel Reconstruction to Identify the Normal Pituitary Gland in Patients with Macroadenomas. American Journal of Neuroradiology, 2017, 38, 1117-1121.	1.2	16

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19	Improved Detection of Small Pulmonary Nodules Through Simultaneous MR/PET Imaging. Magnetic Resonance Imaging Clinics of North America, 2017, 25, 273-279.	0.6	5
20	Compressed sensing for body MRI. Journal of Magnetic Resonance Imaging, 2017, 45, 966-987.	1.9	206
21	Adaptive bulk motion exclusion for improved robustness of abdominal magnetic resonance imaging. NMR in Biomedicine, 2017, 30, e3830.	1.6	9
22	Dosimetric evaluation of synthetic CT for magnetic resonance-only based radiotherapy planning of lung cancer. Radiation Oncology, 2017, 12, 108.	1.2	32
23	Comprehensive Dynamic Contrast-Enhanced 3D Magnetic Resonance Imaging of the Breast With Fat/Water Separation and High Spatiotemporal Resolution Using Radial Sampling, Compressed Sensing, and Parallel Imaging. Investigative Radiology, 2017, 52, 583-589.	3.5	12
24	Free-breathing volumetric fat/water separation by combining radial sampling, compressed sensing, and parallel imaging. Magnetic Resonance in Medicine, 2017, 78, 565-576.	1.9	57
25	Accelerated and motion-robust in vivo T ₂ mapping from radially undersampled data using Bloch-simulation-based iterative reconstruction. Magnetic Resonance in Medicine, 2016, 75, 1346-1354.	1.9	44
26	XD-GRASP: Golden-angle radial MRI with reconstruction of extra motion-state dimensions using compressed sensing. Magnetic Resonance in Medicine, 2016, 75, 775-788.	1.9	452
27	Influence of temporal regularization and radial undersampling factor on compressed sensing reconstruction in dynamic contrast enhanced MRI of the breast. Journal of Magnetic Resonance Imaging, 2016, 43, 261-269.	1.9	32
28	Performance of simultaneous high temporal resolution quantitative perfusion imaging of bladder tumors and conventional multi-phase urography using a novel free-breathing continuously acquired radial compressed-sensing MRI sequence. Magnetic Resonance Imaging, 2016, 34, 694-698.	1.0	18
29	Respiratory Motion-Resolved Compressed Sensing Reconstruction of Free-Breathing Radial Acquisition for Dynamic Liver Magnetic Resonance Imaging. Investigative Radiology, 2015, 50, 749-756.	3.5	93
30	Rapid and accurate T ₂ mapping from multi-spin-echo data using Bloch-simulation-based reconstruction. Magnetic Resonance in Medicine, 2015, 73, 809-817.	1.9	167
31	Self-gated MRI motion modeling for respiratory motion compensation in integrated PET/MRI. Medical Image Analysis, 2015, 19, 110-120.	7.0	103
32	Towards Routine Clinical Use of Radial Stack-of-Stars 3D Gradient-Echo Sequences for Reducing Motion Sensitivity. Journal of the Korean Society of Magnetic Resonance in Medicine, 2014, 18, 87.	0.1	133
33	Golden-angle radial sparse parallel MRI: Combination of compressed sensing, parallel imaging, and golden-angle radial sampling for fast and flexible dynamic volumetric MRI. Magnetic Resonance in Medicine, 2014, 72, 707-717.	1.9	527
34	Magnetic resonance imaging in real time: Advances using radial FLASH. Journal of Magnetic Resonance Imaging, 2010, 31, 101-109.	1.9	115
35	Model-Based Iterative Reconstruction for Radial Fast Spin-Echo MRI. IEEE Transactions on Medical Imaging, 2009, 28, 1759-1769.	5.4	131
36	Undersampled radial MRI with multiple coils. Iterative image reconstruction using a total variation constraint. Magnetic Resonance in Medicine, 2007, 57, 1086-1098.	1.9	645