

Martin Uecker

List of Publications by Year in descending order

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62
papers

4,133
citations

201674

27
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133252

59
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62
all docs

62
docs citations

62
times ranked

3434
citing authors

#	ARTICLE	IF	CITATIONS
1	RT-CMR Imaging for Noninvasive Characterization of HFpEF. JACC: Cardiovascular Imaging, 2022, 15, 943-945.	5.3	12
2	Real-time radial tagging for quantification of left ventricular torsion. Magnetic Resonance in Medicine, 2022, , .	3.0	0
3	Imaging of arrhythmia: Real-time cardiac magnetic resonance imaging in atrial fibrillation. European Journal of Radiology Open, 2022, 9, 100404.	1.6	12
4	Assessment of esophagogastric junction morphology by dynamic real-time MRI: comparison of imaging features to high-resolution manometry. Japanese Journal of Radiology, 2022, 40, 376-384.	2.4	1
5	CG-SENSE revisited: Results from the first ISMRM reproducibility challenge. Magnetic Resonance in Medicine, 2021, 85, 1821-1839.	3.0	22
6	Model-based reconstruction for simultaneous multi-slice mapping using single-shot inversion-recovery radial FLASH. Magnetic Resonance in Medicine, 2021, 85, 1258-1271.	3.0	14
7	Exercise Stress Real-Time Cardiac Magnetic Resonance Imaging for Noninvasive Characterization of Heart Failure With Preserved Ejection Fraction. Circulation, 2021, 143, 1484-1498.	1.6	69
8	Physics-based reconstruction methods for magnetic resonance imaging. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200196.	3.4	15
9	Impaired Exercise Tolerance in Repaired Tetralogy of Fallot Is Associated With Impaired Biventricular Contractile Reserve: An Exercise-Stress Real-Time Cardiovascular Magnetic Resonance Study. Circulation: Cardiovascular Imaging, 2021, 14, e011823.	2.6	10
10	Fast Real-Time Cardiac MRI: a Review of Current Techniques and Future Directions. Investigative Magnetic Resonance Imaging, 2021, 25, 252.	0.4	4
11	Joint T1 and T2 Mapping With Tiny Dictionaries and Subspace-Constrained Reconstruction. IEEE Transactions on Medical Imaging, 2020, 39, 1008-1014.	8.9	8
12	Accelerating Non-Cartesian MRI Reconstruction Convergence Using k-Space Preconditioning. IEEE Transactions on Medical Imaging, 2020, 39, 1646-1654.	8.9	15
13	Assessment of esophageal motility disorders by real-time MRI. European Journal of Radiology, 2020, 132, 109265.	2.6	5
14	Real-time cardiovascular magnetic resonance T1 and extracellular volume fraction mapping for tissue characterisation in aortic stenosis. Journal of Cardiovascular Magnetic Resonance, 2020, 22, 46.	3.3	18
15	Real-time MRI for dynamic assessment of gastroesophageal reflux disease: Comparison to pH-metry and impedance. European Journal of Radiology, 2020, 125, 108856.	2.6	6
16	Cardiac and Respiratory Self-Gating in Radial MRI Using an Adapted Singular Spectrum Analysis (SSA-FARY). IEEE Transactions on Medical Imaging, 2020, 39, 3029-3041.	8.9	19
17	Model-based myocardial T1 mapping with sparsity constraints using single-shot inversion-recovery radial FLASH cardiovascular magnetic resonance. Journal of Cardiovascular Magnetic Resonance, 2019, 21, 60.	3.3	24
18	Hiatal hernias in patients with GERD-like symptoms: evaluation of dynamic real-time MRI vs endoscopy. European Radiology, 2019, 29, 6653-6661.	4.5	8

#	ARTICLE	IF	CITATIONS
19	Dynamic water/fat separation and inhomogeneity mappingâ€”joint estimation using undersampled tripleâ€”echo multiâ€”spoke radial FLASH. Magnetic Resonance in Medicine, 2019, 82, 1000-1011.	3.0	9
20	ENLIVE: An Efficient Nonlinear Method for Calibrationless and Robust Parallel Imaging. Scientific Reports, 2019, 9, 3034.	3.3	18
21	Real-time MRI for the dynamic assessment of fundoplication failure in patients with gastroesophageal reflux disease. European Radiology, 2019, 29, 4691-4698.	4.5	9
22	Real-Time Magnetic Resonance Imaging. Investigative Radiology, 2019, 54, 757-766.	6.2	35
23	Frequencyâ€”modulated SSFP with radial sampling and subspace reconstruction: A timeâ€”efficient alternative to phaseâ€”cycled bSSFP. Magnetic Resonance in Medicine, 2019, 81, 1566-1579.	3.0	6
24	Simple autoâ€”calibrated gradient delay estimation from few spokes using Radial Intersections (RING). Magnetic Resonance in Medicine, 2019, 81, 1898-1906.	3.0	18
25	Modelâ€”based T_1 mapping with sparsity constraints using singleâ€”shot inversionâ€”recovery radial FLASH . Magnetic Resonance in Medicine, 2018, 79, 730-740.	3.0	59
26	Accelerated wholeâ€”heart MR angiography using a variableâ€”density poissonâ€”disc undersampling pattern and compressed sensing reconstruction. Magnetic Resonance in Medicine, 2018, 79, 761-769.	3.0	9
27	Simultaneous multiâ€”slice MRI using cartesian and radial FLASH and regularized nonlinear inversion: SMSâ€”NLINV. Magnetic Resonance in Medicine, 2018, 79, 2057-2066.	3.0	22
28	Fast Interleaved Multislice T_1 Mapping: Model-Based Reconstruction of Single-Shot Inversion-Recovery Radial FLASH. Computational and Mathematical Methods in Medicine, 2018, 2018, 1-8.	1.3	4
29	Intra- and interobserver variability in the diagnosis of GERD by real-time MRI. European Journal of Radiology, 2018, 104, 14-19.	2.6	12
30	Estimating absoluteâ€”phase maps using ESPIRiT and virtual conjugate coils. Magnetic Resonance in Medicine, 2017, 77, 1201-1207.	3.0	20
31	T_2 shuffling: Sharp, multicontrast, volumetric fast spinâ€”echo imaging. Magnetic Resonance in Medicine, 2017, 77, 180-195.	3.0	133
32	Comprehensive Multi-Dimensional MRI for the Simultaneous Assessment of Cardiopulmonary Anatomy and Physiology. Scientific Reports, 2017, 7, 5330.	3.3	36
33	Fast comprehensive singleâ€”sequence fourâ€”dimensional pediatric knee MRI with T_2 shuffling. Journal of Magnetic Resonance Imaging, 2017, 45, 1700-1711.	3.4	14
34	Accelerated Computing in Magnetic Resonance Imaging: Real-Time Imaging Using Nonlinear Inverse Reconstruction. Computational and Mathematical Methods in Medicine, 2017, 2017, 1-11.	1.3	21
35	Autocalibrating and calibrationless parallel magnetic resonance imaging as a bilinear inverse problem. , 2017, , .		1
36	Comprehensive motionâ€”compensated highly accelerated 4D flow MRI with ferumoxytol enhancement for pediatric congenital heart disease. Journal of Magnetic Resonance Imaging, 2016, 43, 1355-1368.	3.4	92

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37	Targeted endomyocardial biopsy guided by real-time cardiovascular magnetic resonance. Journal of Cardiovascular Magnetic Resonance, 2016, 19, 45.	3.3	44
38	Chemical shift separation with controlled aliasing for hyperpolarized ¹³ C metabolic imaging. Magnetic Resonance in Medicine, 2015, 74, 978-989.	3.0	11
39	Fast pediatric 3D free-breathing abdominal dynamic contrast enhanced MRI with high spatiotemporal resolution. Journal of Magnetic Resonance Imaging, 2015, 41, 460-473.	3.4	80
40	Free-breathing pediatric MRI with nonrigid motion correction and acceleration. Journal of Magnetic Resonance Imaging, 2015, 42, 407-420.	3.4	117
41	Robust 4D flow denoising using divergence-free wavelet transform. Magnetic Resonance in Medicine, 2015, 73, 828-842.	3.0	46
42	Parallel magnetic resonance imaging as approximation in a reproducing kernel Hilbert space. Inverse Problems, 2015, 31, 045008.	2.0	7
43	Fast T2 Mapping With Improved Accuracy Using Undersampled Spin-Echo MRI and Model-Based Reconstructions With a Generating Function. IEEE Transactions on Medical Imaging, 2014, 33, 2213-2222.	8.9	51
44	Correction of gradient-induced phase errors in radial MRI. Magnetic Resonance in Medicine, 2014, 71, 308-312.	3.0	40
45	ESPIRiT—an eigenvalue approach to autocalibrating parallel MRI: Where SENSE meets GRAPPA. Magnetic Resonance in Medicine, 2014, 71, 990-1001.	3.0	864
46	On the Temporal Fidelity of Nonlinear Inverse Reconstructions for Real-Time MRI – The Motion Challenge. The Open Medical Imaging Journal, 2014, 8, 1-7.	0.8	35
47	Real-time MRI of speaking at a resolution of 33 ms: Undersampled radial FLASH with nonlinear inverse reconstruction. Magnetic Resonance in Medicine, 2013, 69, 477-485.	3.0	112
48	Real-time MRI: recent advances using radial FLASH. Imaging in Medicine, 2012, 4, 461-476.	0.0	43
49	Real-time phase-contrast MRI of cardiovascular blood flow using undersampled radial fast low-angle shot and nonlinear inverse reconstruction. NMR in Biomedicine, 2012, 25, 917-924.	2.8	75
50	Parallel imaging with nonlinear reconstruction using variational penalties. Magnetic Resonance in Medicine, 2012, 67, 34-41.	3.0	81
51	A Multi-GPU Programming Library for Real-Time Applications. Lecture Notes in Computer Science, 2012, , 114-128.	1.3	32
52	Echtzeit-MRT: die Zweite. Akademie Der Wissenschaften Zu Goettingen Jahrbuch, 2011, 2010, 263-270.	0.0	0
53	Model-based nonlinear inverse reconstruction for T2 mapping using highly undersampled spin-echo MRI. Journal of Magnetic Resonance Imaging, 2011, 34, 420-428.	3.4	125
54	Spatially encoded phase-contrast MRI – 3D MRI movies of 1D and 2D structures at millisecond resolution. Magnetic Resonance in Medicine, 2011, 66, 950-956.	3.0	4

#	ARTICLE	IF	CITATIONS
55	Real-time MRI at a resolution of 20 ms. NMR in Biomedicine, 2010, 23, 986-994.	2.8	319
56	Nonlinear inverse reconstruction for real-time MRI of the human heart using undersampled radial FLASH. Magnetic Resonance in Medicine, 2010, 63, 1456-1462.	3.0	90
57	Real-time cardiovascular magnetic resonance at high temporal resolution: radial FLASH with nonlinear inverse reconstruction. Journal of Cardiovascular Magnetic Resonance, 2010, 12, 39.	3.3	101
58	Model-Based Iterative Reconstruction for Radial Fast Spin-Echo MRI. IEEE Transactions on Medical Imaging, 2009, 28, 1759-1769.	8.9	131
59	Inverse reconstruction method for segmented multishot diffusion-weighted MRI with multiple coils. Magnetic Resonance in Medicine, 2009, 62, 1342-1348.	3.0	17
60	Image reconstruction by regularized nonlinear inversion—Joint estimation of coil sensitivities and image content. Magnetic Resonance in Medicine, 2008, 60, 674-682.	3.0	183
61	Suppression of MRI Truncation Artifacts Using Total Variation Constrained Data Extrapolation. International Journal of Biomedical Imaging, 2008, 2008, 1-8.	3.9	100
62	Undersampled radial MRI with multiple coils. Iterative image reconstruction using a total variation constraint. Magnetic Resonance in Medicine, 2007, 57, 1086-1098.	3.0	645