Rizwan Ahmad

List of Publications by Year
in descending order

72 papers	1,042 citations	516710 16 h-index	477307 29 g-index
73 all docs	73 docs citations	73 times ranked	1144 citing authors

#	Article	IF	Citations
1	Ensuring respiratory phase consistency to improve cardiac function quantification in real‑time CMR. Magnetic Resonance in Medicine, 2022, 87, 1595-1604.	3.0	1
2	Maximizing Unambiguous Velocity Range in Phase-Contrast MRI with Multipoint Encoding. , 2022, , .		2
3	Expectation Consistent Plug-and-Play for MRI. , 2022, , .		2
4	MRI Recovery with a Self-Calibrated Denoiser. , 2022, , .		3
5	Fully self‑gated whole‑heart 4D flow imaging from a 5‑minute scan. Magnetic Resonance in Medicine, 2021, 85, 1222-1236.	3.0	12
6	Compact electron spin resonance skin oximeter: Properties and initial clinical results. Magnetic Resonance in Medicine, 2021, 85, 2915-2925.	3.0	4
7	Prospective correction of patient‑specific respiratory motion in myocardial T_1 and T_2 mapping. Magnetic Resonance in Medicine, 2021, 85, 855-867.	3.0	4
8	High‑dimensional fast convolutional framework (HICU) for calibrationless MRI. Magnetic Resonance in Medicine, 2021, 86, 1212-1225.	3.0	7
9	Calibrationless MRI Reconstruction With A Plug-In Denoiser. , 2021, 2021, 1846-1849.		0
10	MRI Image Recovery using Damped Denoising Vector AMP. , 2021, , .		4
11	MR elastography inversion by compressive recovery. Physics in Medicine and Biology, 2021, 66, 165001.	3.0	2
12	Estimation of pO2 histogram from a composite EPR Spectrum of multiple random implants. Biomedical Microdevices, 2020, 22, 3.	2.8	5
13	CArtesian sampling with Variable density and Adjustable temporal resolution (CAVA). Magnetic Resonance in Medicine, 2020, 83, 2015-2025.	3.0	5
14	Algebraic reconstruction of 3D spatial EPR images from high numbers of noisy projections: An improved image reconstruction technique for high resolution fast scan EPR imaging. Journal of Magnetic Resonance, 2020, 319, 106812.	2.1	7
15	Automatic Extraction and Sign Determination of Respiratory Signal in Real-Time Cardiac Magnetic Resonance Imaging. , 2020, 2020, 830-833.		1
16	Free-Breathing Cardiovascular MRI Using a Plug-and-Play Method with Learned Denoiser. , 2020, 2020, 1748-1751.		3
17	Assessment of cardiac function, blood flow and myocardial tissue relaxation parameters at 0.35 T. NMR in Biomedicine, 2020, 33, e4317.	2.8	13
18	Newly Developed Methods for Reducing Motion Artifacts in Pediatric Abdominal MRI: Tips and Pearls. American Journal of Roentgenology, 2020, 214, 1042-1053.	2.2	30

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19	Plug-and-Play Methods for Magnetic Resonance Imaging: Using Denoisers for Image Recovery. IEEE Signal Processing Magazine, 2020, 37, 105-116.	5.6	144
20	Patientâ€Adaptive Magnetic Resonance Oximetry: Comparison With Invasive Catheter Measurement of Blood Oxygen Saturation in Patients With Cardiovascular Disease. Journal of Magnetic Resonance Imaging, 2020, 52, 1449-1459.	3.4	5
21	Convolutional Framework for Accelerated Magnetic Resonance Imaging. , 2020, 2020, 1065-1068.		0
22	Implantable microchip containing oxygen-sensing paramagnetic crystals for long-term, repeated, and multisite in vivo oximetry. Biomedical Microdevices, 2019, 21, 71.	2.8	18
23	A method to correct background phase offset for phaseâ€contrast MRI in the presence of steady flow and spatial wrapâ€around artifact. Magnetic Resonance in Medicine, 2019, 81, 2424-2438.	3.0	6
24	Sparsity adaptive reconstruction for highly accelerated cardiac MRI. Magnetic Resonance in Medicine, 2019, 81, 3875-3887.	3.0	9
25	Development of a fastâ€scan EPR imaging system for highly accelerated free radical imaging. Magnetic Resonance in Medicine, 2019, 82, 842-853.	3.0	9
26	Patient specific prospective respiratory motion correction for efficient, freeâ€breathing cardiovascular MRI. Magnetic Resonance in Medicine, 2019, 81, 3662-3674.	3.0	11
27	A Bayesian approach for 4D flow imaging of aortic valve in a single breathâ€hold. Magnetic Resonance in Medicine, 2019, 81, 811-824.	3.0	12
28	A bayesian method for accelerated magnetic resonance elastography of the liver. Magnetic Resonance in Medicine, 2018, 80, 1178-1188.	3.0	13
29	Reducing sedation for pediatric body MRI using accelerated and abbreviated imaging protocols. Pediatric Radiology, 2018, 48, 37-49.	2.0	64
30	Electron-Spin-Resonance Dipstick. Analytical Chemistry, 2018, 90, 7830-7836.	6.5	8
31	Fast implementation for compressive recovery of highly accelerated cardiac cine MRI using the balanced sparse model. Magnetic Resonance in Medicine, 2017, 77, 1505-1515.	3.0	16
32	Low-Field Cardiac Magnetic Resonance Imaging. Circulation: Cardiovascular Imaging, 2017, 10, .	2.6	31
33	CMR-based blood oximetry via multi-parametric estimation using multiple T2 measurements. Journal of Cardiovascular Magnetic Resonance, 2017, 19, 88.	3.3	20
34	Recovering Signals with Unknown Sparsity in Multiple Dictionaries. Applied and Numerical Harmonic Analysis, 2017, , 163-195.	0.3	0
35	A Bayesian model for highly accelerated phase-contrast MRI. Magnetic Resonance in Medicine, 2016, 76, 689-701.	3.0	12
36	Accelerated dynamic EPR imaging using fast acquisition and compressive recovery. Journal of Magnetic Resonance, 2016, 273, 105-112.	2.1	7

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37	Venous oxygen saturation estimation from multiple T2 maps with varying inter-echo spacing. Journal of Cardiovascular Magnetic Resonance, 2016, 18, W29.	3.3	1
38	Quantification of aortic stenosis diagnostic parameters: comparison of fast 3 direction and 1 direction phase contrast CMR and transthoracic echocardiography. Journal of Cardiovascular Magnetic Resonance, 2016, 19, 35.	3.3	17
39	Edge sharpness assessment by parametric modeling: Application to magnetic resonance imaging. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2015, 44, 138-149.	0.5	30
40	Factor graphs for inverse problems: Accelerated phase contrast magnetic resonance imaging. , 2015, , .		0
41	A hand-held EPR scanner for transcutaneous oximetry. Proceedings of SPIE, 2015, , .	0.8	3
42	Paradoxical effect of the signalâ€toâ€noise ratio of GRAPPA calibration lines: A quantitative study. Magnetic Resonance in Medicine, 2015, 74, 231-239.	3.0	15
43	Variable density incoherent spatiotemporal acquisition (VISTA) for highly accelerated cardiac MRI. Magnetic Resonance in Medicine, 2015, 74, 1266-1278.	3.0	43
44	Aortic Stenosis assessment with a 3-directional phase contrast magnetic resonance technique. Comparison to transthoracic echocardiography. Journal of Cardiovascular Magnetic Resonance, 2015, 17, P381.	3.3	1
45	A Magnetic Resonance Probehead for Evaluating the Level of Ionizing Radiation Absorbed in Human Teeth. Health Physics, 2015, 108, 326-335.	0.5	7
46	Iteratively Reweighted <named-content content-type="math" xlink:type="simple"><inline-formula><tex-math notation="LaTeX">$\ell_1$$</tex-math></inline-formula> </named-content> Approaches to Sparse Composite Regularization. IEEE Transactions on Computational Imaging, 2015, 1, 220-235.	4.4	70
47	Compressed sensing of spatial electron paramagnetic resonance imaging. Magnetic Resonance in Medicine, 2014, 72, 893-901.	3.0	20
48	A Miniature Electron Spin Resonance Probehead for Transcutaneous Oxygen Monitoring. Applied Magnetic Resonance, 2014, 45, 955-967.	1.2	9
49	Uniform spinning sampling gradient electron paramagnetic resonance imaging. Magnetic Resonance in Medicine, 2014, 71, 893-900.	3.0	4
50	Estimation of spin-echo relaxation time. Journal of Magnetic Resonance, 2013, 237, 17-22.	2.1	4
51	The importance of <i>k</i>â€space trajectory on offâ€resonance artifact in segmented echoâ€planar imaging. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2013, 42A, 23-31.	0.5	2
52	Joint Hierarchical Modulation and Network Coding for Two Way Relay Networks. , 2012, , .		6
53	Performance of two way opportunistic MAC protocol in non-saturated ad hoc networks. , 2012, , .		0
54	SCâ€GRAPPA: Selfâ€constraint noniterative GRAPPA reconstruction with closedâ€form solution. Medical Physics, 2012, 39, 7686-7693.	3.0	3

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55	Minimum neighbour with extended Kalman filter estimator (MINEK): Performance evaluation. , 2011, , .		2
56	Two way opportunistic MAC protocol for Ad Hoc networks. , 2011, , .		1
57	Nested uniform sampling for multiresolution 3-D tomography. , 2010, , .		0
58	Theory, Instrumentation, and Applications of Electron Paramagnetic Resonance Oximetry. Chemical Reviews, 2010, 110, 3212-3236.	47.7	136
59	Diagnostic and prognostic values of S-phase fraction and aneuploidy in patients with bone marrow aplasia. Indian Journal of Hematology and Blood Transfusion, 2009, 25, 10-16.	0.6	3
60	Estimation of mean and median pO_2 values for a composite EPR spectrum. Journal of Magnetic Resonance, 2008, 192, 269-274.	2.1	5
61	Evaluation of oxygen-response times of phthalocyanine-based crystalline paramagnetic spin probes for EPR oximetry. Journal of Magnetic Resonance, 2008, 193, 127-132.	2.1	6
62	EPR oximetry in three spatial dimensions using sparse spin distribution. Journal of Magnetic Resonance, 2008, 193, 210-217.	2.1	19
63	Mapping of Oxygen Concentration in Biological Samples Using EPR Imaging. Israel Journal of Chemistry, 2008, 48, 39-43.	2.3	2
64	A Comparative Evaluation of EPR and OxyLite Oximetry Using a Random Sampling of pO_2 in a Murine Tumor. Radiation Research, 2007, 168, 308-315.	1.5	17
65	Enhanced resolution for EPR imaging by two-step deblurring. Journal of Magnetic Resonance, 2007, 184, 246-257.	2.1	22
66	Quasi Monte Carlo-based isotropic distribution of gradient directions for improved reconstruction quality of 3D EPR imaging. Journal of Magnetic Resonance, 2007, 184, 236-245.	2.1	19
67	A parametric approach to spectral–spatial EPR imaging. Journal of Magnetic Resonance, 2007, 186, 1-10.	2.1	21
68	Uniform distribution of projection data for improved reconstruction quality of 4D EPR imaging. Journal of Magnetic Resonance, 2007, 187, 277-287.	2.1	15
69	Optimization of data acquisition for EPR imaging. Journal of Magnetic Resonance, 2006, 179, 263-272.	2.1	14
70	Application of magnetic field over-modulation for improved EPR linewidth measurements using probes with Lorentzian lineshape. Journal of Magnetic Resonance, 2006, 181, 254-261.	2.1	24
71	Automated on-the-fly detection and correction procedure for EPR imaging data acquisition. Magnetic Resonance in Medicine, 2006, 56, 644-653.	3.0	1
72	Flow cytometric analysis of aneuploidy and S-phase fraction in chronic myeloid leukemia patients: role in early detection of accelerated phase. Leukemia Research, 2003, 27, 899-902.	0.8	9