Rizwan Ahmad

List of Publications by Year
in descending order

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72	1,042	516710 16	477307 29
papers	citations	h-index	g-index

73	73	73	1144
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Plug-and-Play Methods for Magnetic Resonance Imaging: Using Denoisers for Image Recovery. IEEE Signal Processing Magazine, 2020, 37, 105-116.	5.6	144
2	Theory, Instrumentation, and Applications of Electron Paramagnetic Resonance Oximetry. Chemical Reviews, 2010, 110, 3212-3236.	47.7	136
3	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
4	Reducing sedation for pediatric body MRI using accelerated and abbreviated imaging protocols. Pediatric Radiology, 2018, 48, 37-49.	2.0	64
5	Variable density incoherent spatiotemporal acquisition (VISTA) for highly accelerated cardiac MRI. Magnetic Resonance in Medicine, 2015, 74, 1266-1278.	3.0	43
6	Low-Field Cardiac Magnetic Resonance Imaging. Circulation: Cardiovascular Imaging, 2017, 10, .	2.6	31
7	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
8	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
9	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
10	Enhanced resolution for EPR imaging by two-step deblurring. Journal of Magnetic Resonance, 2007, 184, 246-257.	2.1	22
11	A parametric approach to spectralâ€“spatial EPR imaging. Journal of Magnetic Resonance, 2007, 186, 1-10.	2.1	21
12	Compressed sensing of spatial electron paramagnetic resonance imaging. Magnetic Resonance in Medicine, 2014, 72, 893-901.	3.0	20
13	CMR-based blood oximetry via multi-parametric estimation using multiple T2 measurements. Journal of Cardiovascular Magnetic Resonance, 2017, 19, 88.	3.3	20
14	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
15	EPR oximetry in three spatial dimensions using sparse spin distribution. Journal of Magnetic Resonance, 2008, 193, 210-217.	2.1	19
16	Implantable microchip containing oxygen-sensing paramagnetic crystals for long-term, repeated, and multisite in vivo oximetry. Biomedical Microdevices, 2019, 21, 71.	2.8	18
17	A Comparative Evaluation of EPR and OxyLite Oximetry Using a Random Sampling ofpO₂in a Murine Tumor. Radiation Research, 2007, 168, 308-315.	1.5	17
18	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

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19	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
20	Uniform distribution of projection data for improved reconstruction quality of 4D EPR imaging. Journal of Magnetic Resonance, 2007, 187, 277-287.	2.1	15
21	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
22	Optimization of data acquisition for EPR imaging. Journal of Magnetic Resonance, 2006, 179, 263-272.	2.1	14
23	A bayesian method for accelerated magnetic resonance elastography of the liver. Magnetic Resonance in Medicine, 2018, 80, 1178-1188.	3.0	13
24	Assessment of cardiac function, blood flow and myocardial tissue relaxation parameters at 0.35 T. NMR in Biomedicine, 2020, 33, e4317.	2.8	13
25	A Bayesian model for highly accelerated phase-contrast MRI. Magnetic Resonance in Medicine, 2016, 76, 689-701.	3.0	12
26	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
27	Fully selfâ€gated wholeâ€heart 4D flow imaging from a 5â€minute scan. Magnetic Resonance in Medicine, 2021, 85, 1222-1236.	3.0	12
28	Patient specific prospective respiratory motion correction for efficient, freeâ€breathing cardiovascular MRI. Magnetic Resonance in Medicine, 2019, 81, 3662-3674.	3.0	11
29	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
30	A Miniature Electron Spin Resonance Probehead for Transcutaneous Oxygen Monitoring. Applied Magnetic Resonance, 2014, 45, 955-967.	1.2	9
31	Sparsity adaptive reconstruction for highly accelerated cardiac MRI. Magnetic Resonance in Medicine, 2019, 81, 3875-3887.	3.0	9
32	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
33	Electron-Spin-Resonance Dipstick. Analytical Chemistry, 2018, 90, 7830-7836.	6.5	8
34	A Magnetic Resonance Probehead for Evaluating the Level of Ionizing Radiation Absorbed in Human Teeth. Health Physics, 2015, 108, 326-335.	0.5	7
35	Accelerated dynamic EPR imaging using fast acquisition and compressive recovery. Journal of Magnetic Resonance, 2016, 273, 105-112.	2.1	7
36	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

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37	Highâ€dimensional fast convolutional framework (HICU) for calibrationless MRI. Magnetic Resonance in Medicine, 2021, 86, 1212-1225.	3.0	7
38	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
39	Joint Hierarchical Modulation and Network Coding for Two Way Relay Networks. , 2012, , .		6
40	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
41	Estimation of mean and median pO2 values for a composite EPR spectrum. Journal of Magnetic Resonance, 2008, 192, 269-274.	2.1	5
42	Estimation of pO2 histogram from a composite EPR Spectrum of multiple random implants. Biomedical Microdevices, 2020, 22, 3.	2.8	5
43	CArtesian sampling with Variable density and Adjustable temporal resolution (CAVA). Magnetic Resonance in Medicine, 2020, 83, 2015-2025.	3.0	5
44	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
45	Estimation of spin-echo relaxation time. Journal of Magnetic Resonance, 2013, 237, 17-22.	2.1	4
46	Uniform spinning sampling gradient electron paramagnetic resonance imaging. Magnetic Resonance in Medicine, 2014, 71, 893-900.	3.0	4
47	Compact electron spin resonance skin oximeter: Properties and initial clinical results. Magnetic Resonance in Medicine, 2021, 85, 2915-2925.	3.0	4
48	Prospective correction of patientâ€specific respiratory motion in myocardial T₁ and T₂ mapping. Magnetic Resonance in Medicine, 2021, 85, 855-867.	3.0	4
49	MRI Image Recovery using Damped Denoising Vector AMP. , 2021, , .		4
50	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
51	SCâ€GRAPPA: Selfâ€constraint noniterative GRAPPA reconstruction with closedâ€form solution. Medical Physics, 2012, 39, 7686-7693.	3.0	3
52	A hand-held EPR scanner for transcutaneous oximetry. Proceedings of SPIE, 2015, , .	0.8	3
53	Free-Breathing Cardiovascular MRI Using a Plug-and-Play Method with Learned Denoiser. , 2020, 2020, 1748-1751.		3
54	MRI Recovery with a Self-Calibrated Denoiser. , 2022, , .		3

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55	Mapping of Oxygen Concentration in Biological Samples Using EPR Imaging. Israel Journal of Chemistry, 2008, 48, 39-43.	2.3	2
56	Minimum neighbour with extended Kalman filter estimator (MINEK): Performance evaluation. , 2011, , .		2
57	The importance of kâ€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
58	MR elastography inversion by compressive recovery. Physics in Medicine and Biology, 2021, 66, 165001.	3.0	2
59	Maximizing Unambiguous Velocity Range in Phase-Contrast MRI with Multipoint Encoding. , 2022, , .		2
60	Expectation Consistent Plug-and-Play for MRI. , 2022, , .		2
61	Automated on-the-fly detection and correction procedure for EPR imaging data acquisition. Magnetic Resonance in Medicine, 2006, 56, 644-653.	3.0	1
62	Two way opportunistic MAC protocol for Ad Hoc networks. , 2011, , .		1
63	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
64	Venous oxygen saturation estimation from multiple T2 maps with varying inter-echo spacing. Journal of Cardiovascular Magnetic Resonance, 2016, 18, W29.	3.3	1
65	Automatic Extraction and Sign Determination of Respiratory Signal in Real-Time Cardiac Magnetic Resonance Imaging. , 2020, 2020, 830-833.		1
66	Ensuring respiratory phase consistency to improve cardiac function quantification in realâ€time CMR. Magnetic Resonance in Medicine, 2022, 87, 1595-1604.	3.0	1
67	Nested uniform sampling for multiresolution 3-D tomography. , 2010, , .		0
68	Performance of two way opportunistic MAC protocol in non-saturated ad hoc networks. , 2012, , .		0
69	Factor graphs for inverse problems: Accelerated phase contrast magnetic resonance imaging. , 2015, , .		0
70	Calibrationless MRI Reconstruction With A Plug-In Denoiser. , 2021, 2021, 1846-1849.		0
71	Recovering Signals with Unknown Sparsity in Multiple Dictionaries. Applied and Numerical Harmonic Analysis, 2017, , 163-195.	0.3	0
72	Convolutional Framework for Accelerated Magnetic Resonance Imaging. , 2020, 2020, 1065-1068.		0