Hammad Omer

List of Publications by Year
in descending order

36 papers	184 citations	1163117 8 h-index	1281871 11 g-index
36 all docs	36 docs citations	36 times ranked	162 citing authors

#	Article	IF	Citations
1	A graphical generalized implementation of SENSE reconstruction using Matlab. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2010, 36A, 178-186.	0.5	16
2	Compressively sampled MR image reconstruction using generalized thresholding iterative algorithm. Journal of Magnetic Resonance, 2018, 286, 91-98.	2.1	15
3	Regularization in parallel MR image reconstruction. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2011, 38A, 52-60.	0.5	14
4	QR-decomposition based SENSE reconstruction using parallel architecture. Computers in Biology and Medicine, 2018, 95, 1-12.	7.0	14
5	Transfer learning in deep neural network based under-sampled MR image reconstruction. Magnetic Resonance Imaging, 2021, 76, 96-107.	1.8	13
6	A modified POCS–based reconstruction method for compressively sampled MR imaging. International Journal of Imaging Systems and Technology, 2014, 24, 203-207.	4.1	12
7	GPU-Accelerated Self-Calibrating GRAPPA Operator Gridding for Rapid Reconstruction of Non-Cartesian MRI Data. Applied Magnetic Resonance, 2017, 48, 1055-1074.	1.2	10
8	FPGA implementation of real-time SENSE reconstruction using pre-scan and Emaps sensitivities. Magnetic Resonance Imaging, 2017, 44, 82-91.	1.8	10
9	Compressively sampled magnetic resonance image reconstruction using separable surrogate functional method. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2014, 43, 157-165.	0.5	8
10	FPGA-based hardware accelerator for SENSE (a parallel MR image reconstruction method). Computers in Biology and Medicine, 2020, 117, 103598.	7.0	8
11	Sensitivity Maps Estimation Using Eigenvalues in Sense Reconstruction. Applied Magnetic Resonance, 2016, 47, 487-498.	1.2	7
12	Accelerating MRI Using GROG Gridding Followed by ESPIRiT for Non-Cartesian Trajectories. Applied Magnetic Resonance, 2018, 49, 107-124.	1.2	7
13	Iterative Schemes to Solve Low-Dimensional Calibration Equations in Parallel MR Image Reconstruction with GRAPPA. BioMed Research International, 2017, 2017, 1-16.	1.9	5
14	An Adaptive Algorithm for Compressively Sampled MR Image Reconstruction Using Projections onto l_{p} l p -Ball. Applied Magnetic Resonance, 2016, 47, 415-428.	1.2	4
15	Singular Value Decomposition Using Jacobi Algorithm in pMRI and CS. Applied Magnetic Resonance, 2017, 48, 461-471.	1.2	4
16	Respiratory motion compensation using data binning in dynamic contrast enhanced golden-angle radial MRI. Magnetic Resonance Imaging, 2020, 70, 115-125.	1.8	4
17	Compressively Sampled MRI Recovery Using Modified Iterative-Reweighted Least Square Method. Applied Magnetic Resonance, 2016, 47, 1033-1046.	1.2	3
18	Line Profile Measure as a Stopping Criterion in CG-SENSE Algorithm. Applied Magnetic Resonance, 2017, 48, 227-240.	1.2	3

#	Article	IF	Citations
19	Accelerating Parallel Magnetic Resonance Image Reconstruction on Graphics Processing Units Using CUDA. , 2019, , .		3
20	Accelerating Parallel Magnetic Resonance Imaging Using p-Thresholding Based Compressed-Sensing. Applied Magnetic Resonance, 2019, 50, 243-261.	1.2	3
21	A Matlab-Based Advance MR Image Reconstruction Package with Interactive Graphical User Interface. Applied Magnetic Resonance, 2016, 47, 1305-1321.	1.2	2
22	Optimizing Image Reconstruction in SENSE Using GPU. Applied Magnetic Resonance, 2018, 49, 151-164.	1.2	2
23	De-noising Multi-coil Magnetic Resonance Imaging Using Patch-Based Adaptive Filtering in Wavelet Domain. Applied Magnetic Resonance, 2019, 50, 1325-1343.	1.2	2
24	Golden-Angle Radial Sparse Parallel MR Image Reconstruction Using SC-GROG Followed by Iterative Soft Thresholding. Applied Magnetic Resonance, 2019, 50, 977-988.	1.2	2
25	FPGA-Based Pipelined Architecture for Real-Time Estimation of Sensitivity Maps Using Pre-Scan Method in Parallel MRI. Journal of Circuits, Systems and Computers, 2020, 29, 2050125.	1.5	2
26	Parallel implementation of Lâ€‰+â€‰S signal recovery in dynamic MRI. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2021, 34, 297-307.	2.0	2
27	Transfer learning in deep neural network-based receiver coil sensitivity map estimation. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2021, 34, 717-728.	2.0	2
28	GPU accelerated Cartesian GRAPPA reconstruction using CUDA. Journal of Magnetic Resonance, 2022, 337, 107175.	2.1	2
29	Phased array coil for implementing parallel MRI in intravascular imaging: A feasibility study. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2014, 43, 267-276.	0.5	1
30	Regularization-based SENSE reconstruction and choice of regularization parameter. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2015, 44, 67-73.	0.5	1
31	Compressively Sampled MR Image Reconstruction Using POCS with g-Factor as Regularization Parameter. Applied Magnetic Resonance, 2016, 47, 13-22.	1.2	1
32	Respiratory motion-corrected, compressively sampled dynamic MR image reconstruction by exploiting multiple sparsity constraints and phase correlation-based data binning. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2020, 33, 411-419.	2.0	1
33	GPU based parallel framework for receiver coil sensitivity estimation in SENSE reconstruction. Magnetic Resonance Imaging, 2021, 80, 58-70.	1.8	1
34	Modified POCS Based Reconstruction for Compressed Sensing in MRI. , 2015, , .		0
35	ASIC modelling of SENSE for parallel MRI. Computers in Biology and Medicine, 2019, 109, 53-61.	7.0	0
36	Association between scripture memorization and brain atrophy using magnetic resonance imaging. Acta Neurobiologiae Experimentalis, 2020, 80, 90-97.	0.7	0