

Abolfazl Mehranian

List of Publications by Year in descending order

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37
papers

1,021
citations

430442

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all docs

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docs citations

37
times ranked

1039
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep Learning for PET Image Reconstruction. IEEE Transactions on Radiation and Plasma Medical Sciences, 2021, 5, 1-25.	2.7	128
2	Vision 20/20: Magnetic resonance imaging-guided attenuation correction in PET/MRI: Challenges, solutions, and opportunities. Medical Physics, 2016, 43, 1130-1155.	1.6	121
3	Joint Estimation of Activity and Attenuation in Whole-Body TOF PET/MRI Using Constrained Gaussian Mixture Models. IEEE Transactions on Medical Imaging, 2015, 34, 1808-1821.	5.4	85
4	Impact of Time-of-Flight PET on Quantification Errors in MR Imaging-Based Attenuation Correction. Journal of Nuclear Medicine, 2015, 56, 635-641.	2.8	82
5	X-ray CT Metal Artifact Reduction Using Wavelet Domain ℓ_1 Sparse Regularization. IEEE Transactions on Medical Imaging, 2013, 32, 1707-1722.	5.4	72
6	Model-Based Deep Learning PET Image Reconstruction Using Forward-Backward Splitting Expectation-Maximization. IEEE Transactions on Radiation and Plasma Medical Sciences, 2021, 5, 54-64.	2.7	69
7	PET image reconstruction using multi-parametric anato-functional priors. Physics in Medicine and Biology, 2017, 62, 5975-6007.	1.6	54
8	MR-Guided Kernel EM Reconstruction for Reduced Dose PET Imaging. IEEE Transactions on Radiation and Plasma Medical Sciences, 2018, 2, 235-243.	2.7	52
9	Quantitative analysis of MRI-guided attenuation correction techniques in time-of-flight brain PET/MRI. NeuroImage, 2016, 130, 123-133.	2.1	45
10	Synergistic PET and SENSE MR Image Reconstruction Using Joint Sparsity Regularization. IEEE Transactions on Medical Imaging, 2018, 37, 20-34.	5.4	35
11	Clinical Assessment of Emission- and Segmentation-Based MR-Guided Attenuation Correction in Whole-Body Time-of-Flight PET/MR Imaging. Journal of Nuclear Medicine, 2015, 56, 877-883.	2.8	30
12	Image enhancement of whole-body oncology ^{18}F -FDG PET scans using deep neural networks to reduce noise. European Journal of Nuclear Medicine and Molecular Imaging, 2022, 49, 539-549.	3.3	30
13	Emission-based estimation of lung attenuation coefficients for attenuation correction in time-of-flight PET/MR. Physics in Medicine and Biology, 2015, 60, 4813-4833.	1.6	29
14	3D Prior Image Constrained Projection Completion for X-ray CT Metal Artifact Reduction. IEEE Transactions on Nuclear Science, 2013, 60, 3318-3332.	1.2	28
15	MR-guided joint reconstruction of activity and attenuation in brain PET-MR. NeuroImage, 2017, 162, 276-288.	2.1	24
16	Deep learning-based time-of-flight (ToF) image enhancement of non-ToF PET scans. European Journal of Nuclear Medicine and Molecular Imaging, 2022, 49, 3740-3749.	3.3	20
17	Intercomparison of MR-informed PET image reconstruction methods. Medical Physics, 2019, 46, 5055-5074.	1.6	19
18	Assessment of metal artifact reduction methods in pelvic CT. Medical Physics, 2016, 43, 1588-1597.	1.6	18

#	ARTICLE	IF	CITATIONS
19	Multi-modal synergistic PET and MR reconstruction using mutually weighted quadratic priors. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 2120-2134.	1.9	17
20	Smoothly Clipped Absolute Deviation (SCAD) regularization for compressed sensing MRI Using an augmented Lagrangian scheme. <i>Magnetic Resonance Imaging</i> , 2013, 31, 1399-1411.	1.0	15
21	Enhancement of Partial Volume Correction in MR-Guided PET Image Reconstruction by Using MRI Voxel Sizes. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2019, 3, 315-326.	2.7	11
22	Multimodal PET/CT Tumour Segmentation and Prediction of Progression-Free Survival Using a Full-Scale UNet with Attention. <i>Lecture Notes in Computer Science</i> , 2022, , 189-201.	1.0	7
23	An ordered subsets proximal preconditioned gradient algorithm for edge-preserving PET image reconstruction. <i>Medical Physics</i> , 2013, 40, 052503.	1.6	6
24	MR constrained simultaneous reconstruction of activity and attenuation maps in brain TOF-PET/MR imaging. <i>EJNMMI Physics</i> , 2014, 1, A55.	1.3	6
25	Direct 4D slice-wise whole-body parametric PET image reconstruction for continuous bed motion acquisitions. , 2016, , .		5
26	Motion-corrected and high-resolution anatomically assisted (MOCHA) reconstruction of arterial spin labeling MRI. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 1306-1320.	1.9	4
27	Clinical Assessment Of MR-Assisted PET Image Reconstruction Algorithms for Low-Dose Brain PET Imaging. , 2019, , .		3
28	Model-Based Deep Learning PET Image Reconstruction Using Forward-Backward Splitting Expectation Maximisation. , 2019, , .		3
29	Multi-bed tracer kinetic imaging of micro-parameters from dynamic time-of-flight PET data. , 2015, , .		1
30	ML and MAP PET reconstruction with MR-voxel sizes for simultaneous PET-MR. , 2017, , .		1
31	MR-Resolution Kernel Method for PET Reconstruction. , 2017, , .		1
32	Joint estimation of activity and attenuation in PET/MR using MR-constrained Gaussian priors. , 2014, , .		0
33	Error propagation reduction in direct 4D image reconstruction using time-of-flight PET. , 2015, , .		0
34	Impact of time-of-flight image reconstruction in PET parametric imaging. , 2015, , .		0
35	Multi-modal weighted quadratic priors for robust intensity independent synergistic PET-MR reconstruction. , 2017, , .		0
36	Intercomparison of MR-Informed Methods for PET Image Reconstruction. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
37	Multi-Module Deep Learning for Enhanced and Accelerated PET Image Reconstruction. , 2019, , .		0