

# Ahmadreza Rezaei

## List of Publications by Year in descending order

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Version: 2024-02-01

42  
papers

1,231  
citations

471061

17  
h-index

552369

26  
g-index

42  
all docs

42  
docs citations

42  
times ranked

998  
citing authors

#	ARTICLE	IF	CITATIONS
1	Simultaneous Reconstruction of Activity and Attenuation in Time-of-Flight PET. IEEE Transactions on Medical Imaging, 2012, 31, 2224-2233.	5.4	224
2	Time-of-flight PET data determine the attenuation sinogram up to a constant. Physics in Medicine and Biology, 2012, 57, 885-899.	1.6	222
3	Simultaneous reconstruction of activity and attenuation in Time-of-Flight PET. , 2011, , .		119
4	ML-Reconstruction for TOF-PET With Simultaneous Estimation of the Attenuation Factors. IEEE Transactions on Medical Imaging, 2014, 33, 1563-1572.	5.4	93
5	Use of Multimodal Imaging and Clinical Biomarkers in Presymptomatic Carriers of <i>C9orf72</i> Repeat Expansion. JAMA Neurology, 2020, 77, 1008.	4.5	45
6	Transmission-less attenuation correction in time-of-flight PET: analysis of a discrete iterative algorithm. Physics in Medicine and Biology, 2014, 59, 1073-1095.	1.6	41
7	Evaluation of Parallel Level Sets and Bowsher's Method as Segmentation-Free Anatomical Priors for Time-of-Flight PET Reconstruction. IEEE Transactions on Medical Imaging, 2018, 37, 590-603.	5.4	41
8	Characterization of a preclinical PET insert in a 7 tesla MRI scanner: beyond NEMA testing. Physics in Medicine and Biology, 2020, 65, 245016.	1.6	39
9	Regional Accuracy of ZTE-Based Attenuation Correction in Static [18F]FDG and Dynamic [18F]PE2I Brain PET/MR. Frontiers in Physics, 2019, 7, .	1.0	38
10	Quantitative PET in the 2020s: a roadmap. Physics in Medicine and Biology, 2021, 66, 06RM01.	1.6	36
11	Approximating anatomically-guided PET reconstruction in image space using a convolutional neural network. NeuroImage, 2021, 224, 117399.	2.1	29
12	Joint Reconstruction of Activity and Attenuation in Time-of-Flight PET: A Quantitative Analysis. Journal of Nuclear Medicine, 2018, 59, 1630-1635.	2.8	26
13	A Quantitative Evaluation of Joint Activity and Attenuation Reconstruction in TOF PET/MR Brain Imaging. Journal of Nuclear Medicine, 2019, 60, 1649-1655.	2.8	26
14	Optimized MLAA for quantitative non-TOF PET/MR of the brain. Physics in Medicine and Biology, 2016, 61, 8854-8874.	1.6	25
15	Simultaneous reconstruction of the activity image and registration of the CT image in TOF-PET. Physics in Medicine and Biology, 2016, 61, 1852-1874.	1.6	25
16	Moving Toward Multicenter Therapeutic Trials in Amyotrophic Lateral Sclerosis: Feasibility of Data Pooling Using Different Translocator Protein PET Radioligands. Journal of Nuclear Medicine, 2020, 61, 1621-1627.	2.8	22
17	Feasibility Study of a Small Animal PET Insert Based on a Single LYSO Monolithic Tube. Frontiers in Medicine, 2018, 5, 328.	1.2	20
18	Reconstruction of uniform sensitivity emission image with partially known axial attenuation information in PET-CT scanners. , 2012, , .		17

#	ARTICLE	IF	CITATIONS
19	Comparative Study of Iodine-123-Labeled Hypericin and 99mTc-Labeled Hexakis [2-Methoxy Isobutyl Isonitrile] in a Rabbit Model of Myocardial Infarction. <i>Journal of Cardiovascular Pharmacology</i> , 2013, 62, 304-311.	0.8	17
20	The Validation Problem of Joint Emission/Transmission Reconstruction From TOF-PET Projections. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2018, 2, 273-278.	2.7	16
21	ML-reconstruction for TOF-PET with simultaneous estimation of the attenuation factors. , 2012, , .		14
22	Plane-dependent ML scatter scaling: 3D extension of the 2D simulated single scatter (SSS) estimate. <i>Physics in Medicine and Biology</i> , 2017, 62, 6515-6531.	1.6	13
23	Estimation of Crystal Timing Properties and Efficiencies for the Improvement of (Joint) Maximum-Likelihood Reconstructions in TOF-PET. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 952-963.	5.4	12
24	Regional glucose metabolic decreases with ageing are associated with microstructural white matter changes: a simultaneous PET/MR study. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2022, 49, 664-680.	3.3	10
25	ML estimation of the scatter scaling in TOF PET. , 2014, , .		9
26	Time-of-flight PET time calibration using data consistency. <i>Physics in Medicine and Biology</i> , 2018, 63, 105006.	1.6	8
27	Experimental Validation of a Rodent PET Scanner Prototype Based on a Single LYSO Crystal Tube. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2022, 6, 697-706.	2.7	8
28	Long-term Ashtanga yoga practice decreases medial temporal and brainstem glucose metabolism in relation to years of experience. <i>EJNMMI Research</i> , 2020, 10, 50.	1.1	7
29	Data driven time alignment for TOF-PET. , 2017, , .		6
30	Rigid motion tracking using moments of inertia in TOF-PET brain studies. <i>Physics in Medicine and Biology</i> , 2021, 66, 184001.	1.6	5
31	Analytic reconstruction of the attenuation from 3D time-of-flight PET data. , 2012, , .		3
32	Simultaneous reconstruction of the activity image and registration of the CT image in TOF-PET. , 2013, , .		3
33	Joint activity and attenuation reconstruction of listmode TOF-PET data. , 2015, , .		3
34	Estimation of crystal timings in TOF-PET. , 2018, , .		3
35	2-D Feasibility Study of Joint Reconstruction of Attenuation and Activity in Limited Angle TOF-PET. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2021, 5, 712-722.	2.7	2
36	Joint registration of attenuation and activity images in gated TOF-PET. , 2013, , .		1

#	ARTICLE	IF	CITATIONS
37	Reconstruction of a motion and attenuation corrected activity distribution in gated TOF-PET. , 2014, , .		1
38	Plane-dependent ML scatter scaling: 3D extension of the 2D simulated single scatter estimate. , 2016, , .		1
39	Rigid Motion Tracking using Moments of Inertia in TOF-PET Brain Studies. , 2020, , .		1
40	Rigid motion correction of PET and CT for PET/CT brain imaging. , 2015, , .		0
41	An approach for a reconstruction-derived whole-blood arterial input function (RDIF) in PET/MRI. , 2018, , .		0
42	Maximum Likelihood Estimation of the Geometric Sensitivities in PET. , 2019, , .		0