

# 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	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
2	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
3	Approximating anatomically-guided PET reconstruction in image space using a convolutional neural network. <i>NeuroImage</i> , 2021, 224, 117399.	2.1	29
4	Quantitative PET in the 2020s: a roadmap. <i>Physics in Medicine and Biology</i> , 2021, 66, 06RM01.	1.6	36
5	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
6	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
7	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
8	Use of Multimodal Imaging and Clinical Biomarkers in Presymptomatic Carriers of <i>C9orf72</i> Repeat Expansion. <i>JAMA Neurology</i> , 2020, 77, 1008.	4.5	45
9	Moving Toward Multicenter Therapeutic Trials in Amyotrophic Lateral Sclerosis: Feasibility of Data Pooling Using Different Translocator Protein PET Radioligands. <i>Journal of Nuclear Medicine</i> , 2020, 61, 1621-1627.	2.8	22
10	Characterization of a preclinical PET insert in a 7 tesla MRI scanner: beyond NEMA testing. <i>Physics in Medicine and Biology</i> , 2020, 65, 245016.	1.6	39
11	Rigid Motion Tracking using Moments of Inertia in TOF-PET Brain Studies. , 2020, , .		1
12	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
13	A Quantitative Evaluation of Joint Activity and Attenuation Reconstruction in TOF PET/MR Brain Imaging. <i>Journal of Nuclear Medicine</i> , 2019, 60, 1649-1655.	2.8	26
14	Maximum Likelihood Estimation of the Geometric Sensitivities in PET. , 2019, , .		0
15	Regional Accuracy of ZTE-Based Attenuation Correction in Static [18F]FDG and Dynamic [18F]PE2I Brain PET/MR. <i>Frontiers in Physics</i> , 2019, 7, .	1.0	38
16	Joint Reconstruction of Activity and Attenuation in Time-of-Flight PET: A Quantitative Analysis. <i>Journal of Nuclear Medicine</i> , 2018, 59, 1630-1635.	2.8	26
17	Evaluation of Parallel Level Sets and Bowsher's Method as Segmentation-Free Anatomical Priors for Time-of-Flight PET Reconstruction. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 590-603.	5.4	41
18	Feasibility Study of a Small Animal PET Insert Based on a Single LYSO Monolithic Tube. <i>Frontiers in Medicine</i> , 2018, 5, 328.	1.2	20

#	ARTICLE	IF	CITATIONS
19	The Validation Problem of Joint Emission/Transmission Reconstruction From TOF-PET Projections. IEEE Transactions on Radiation and Plasma Medical Sciences, 2018, 2, 273-278.	2.7	16
20	Estimation of crystal timings in TOF-PET. , 2018, , .		3
21	An approach for a reconstruction-derived whole-blood arterial input function (RDIF) in PET/MRI. , 2018, , .		0
22	Time-of-flight PET time calibration using data consistency. Physics in Medicine and Biology, 2018, 63, 105006.	1.6	8
23	Plane-dependent ML scatter scaling: 3D extension of the 2D simulated single scatter (SSS) estimate. Physics in Medicine and Biology, 2017, 62, 6515-6531.	1.6	13
24	Data driven time alignment for TOF-PET. , 2017, , .		6
25	Plane-dependent ML scatter scaling: 3D extension of the 2D simulated single scatter estimate. , 2016, , .		1
26	Optimized MLAA for quantitative non-TOF PET/MR of the brain. Physics in Medicine and Biology, 2016, 61, 8854-8874.	1.6	25
27	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
28	Rigid motion correction of PET and CT for PET/CT brain imaging. , 2015, , .		0
29	Joint activity and attenuation reconstruction of listmode TOF-PET data. , 2015, , .		3
30	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
31	ML-Reconstruction for TOF-PET With Simultaneous Estimation of the Attenuation Factors. IEEE Transactions on Medical Imaging, 2014, 33, 1563-1572.	5.4	93
32	Reconstruction of a motion and attenuation corrected activity distribution in gated TOF-PET. , 2014, , .		1
33	ML estimation of the scatter scaling in TOF PET. , 2014, , .		9
34	Joint registration of attenuation and activity images in gated TOF-PET. , 2013, , .		1
35	Comparative Study of Iodine-123-Labeled Hypericin and 99mTc-Labeled Hexakis [2-Methoxy Isobutyl Isonitrile] in a Rabbit Model of Myocardial Infarction. Journal of Cardiovascular Pharmacology, 2013, 62, 304-311.	0.8	17
36	Simultaneous reconstruction of the activity image and registration of the CT image in TOF-PET. , 2013, , .		3

#	ARTICLE	IF	CITATIONS
37	Reconstruction of uniform sensitivity emission image with partially known axial attenuation information in PET-CT scanners. , 2012, , .		17
38	Analytic reconstruction of the attenuation from 3D time-of-flight PET data. , 2012, , .		3
39	Simultaneous Reconstruction of Activity and Attenuation in Time-of-Flight PET. IEEE Transactions on Medical Imaging, 2012, 31, 2224-2233.	5.4	224
40	ML-reconstruction for TOF-PET with simultaneous estimation of the attenuation factors. , 2012, , .		14
41	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
42	Simultaneous reconstruction of activity and attenuation in Time-of-Flight PET. , 2011, , .		119