Timothy W Deller

List of Publications by Year
in descending order

22 papers	624 citations	840119 11 h-index	887659 17 g-index
23 all docs	23 docs citations	23 times ranked	848 citing authors

#	Article	IF	Citations
1	NEMA NU 2-2012 performance studies for the SiPM-based ToF-PET component of the GE SIGNA PET/MR system. Medical Physics, 2016, 43, 2334-2343.	1.6	207
2	Design Features and Mutual Compatibility Studies of the Time-of-Flight PET Capable GE SIGNA PET/MR System. IEEE Transactions on Medical Imaging, 2016, 35, 1907-1914.	5.4	156
3	Image-derived input function estimation on a TOF-enabled PET/MR for cerebral blood flow mapping. Journal of Cerebral Blood Flow and Metabolism, 2018, 38, 126-135.	2.4	49
4	Dose Optimization in TOF-PET/MR Compared to TOF-PET/CT. PLoS ONE, 2015, 10, e0128842.	1.1	30
5	Characterization of the impact to PET quantification and image quality of an anterior array surface coil for PET/MR imaging. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2014, 27, 149-159.	1.1	26
6	Ultra-Fast List-Mode Reconstruction of Short PET Frames and Example Applications. Journal of Nuclear Medicine, 2021, 62, 287-292.	2.8	26
7	Clinical Evaluation of ^{68}Ga-PSMA-11 and ^{68}Ga-RM2 PET Images Reconstructed With an Improved Scatter Correction Algorithm. American Journal of Roentgenology, 2018, 211, 655-660.	1.0	22
8	NEMA NU 2–2007 performance characteristics of GE Signa integrated PET/MR for different PET isotopes. EJNMMI Physics, 2019, 6, 11.	1.3	21
9	Quantitative and Qualitative Improvement of Low-Count [68Ga]Citrate and [90Y]Microspheres PET Image Reconstructions Using Block Sequential Regularized Expectation Maximization Algorithm. Molecular Imaging and Biology, 2020, 22, 208-216.	1.3	16
10	PET image reconstruction using physical and mathematical modelling for time of flight PET-MR scanners in the STIR library. Methods, 2021, 185, 110-119.	1.9	16
11	PET Imaging Stability Measurements During Simultaneous Pulsing of Aggressive MR Sequences on the SIGNA PET/MR System. Journal of Nuclear Medicine, 2018, 59, 167-172.	2.8	14
12	Optimizing the frame duration for data‐driven rigid motion estimation in brain PET imaging. Medical Physics, 2021, 48, 3031-3041.	1.6	9
13	Scatter Limitation to Correct for Arm Movement in PET/CT. Clinical Nuclear Medicine, 2012, 37, 786-787.	0.7	6
14	MR Performance Comparison of a PET/MR System Before and After SiPM-Based Time-of-Flight PET Detector Insertion. IEEE Transactions on Nuclear Science, 2016, 63, 2419-2423.	1.2	6
15	Scatter Artifact with Ga-68-PSMA-11 PET: Severity Reduced With Furosemide Diuresis and Improved Scatter Correction. Molecular Imaging, 2018, 17, 153601211881174.	0.7	6
16	PET Image Quality Improvement for Simultaneous PET/MRI with a Lightweight MRI Surface Coil. Radiology, 2021, 298, 166-172.	3.6	6
17	A solution to PET brain motion artefact. Journal of Neurology, 2021, 268, 3476-3477.	1.8	3
18	Accelerated Regularised List-Mode PET Reconstruction Using Subset Relaxation. , 2019, , .		2

#	Article	IF	Citations
19	Effect of Image Noise on Registration in PET Brain Imaging. , 2019, , .		2
20	Joint estimation of activity and attenuation: Application to non-FDG TOF PET/MR clinical data. , 2016, , .		1
21	Maximum Likelihood Estimation of the Geometric Sensitivities in PET. , 2019, , .		0
22	Real-Time Gain Control of PET Detectors and Evaluation With Challenging Radionuclides. IEEE Transactions on Medical Imaging, 2021, 40, 71-80.	5.4	0