Lutz Tellmann

List of Publications by Year
in descending order

77 papers	3,984 citations	136950 32 h-index	118850 62 g-index
82 all docs	82 docs citations	82 times ranked	4334 citing authors

#	Article	IF	Citations
1	A Novel J-Shape Antenna Array for Simultaneous MR-PET or MR-SPECT Imaging. IEEE Transactions on Medical Imaging, 2022, 41, 1104-1113.	8.9	7
2	mGluR5 binding changes during a mismatch negativity task in a multimodal protocol with [11C]ABP688 PET/MR-EEG. Translational Psychiatry, 2022, 12, 6.	4.8	7
3	A Linearized Fit Model for Robust Shape Parameterization of FET-PET TACs. IEEE Transactions on Medical Imaging, 2021, 40, 1-1.	8.9	2
4	Design and Construction of a PET-Compatible Double-Tuned ¹H/³¹P MR Head Coil. IEEE Transactions on Medical Imaging, 2021, 40, 2015-2022.	8.9	3
5	Bias evaluation and reduction in 3D OP-OSEM reconstruction in dynamic equilibrium PET studies with 11C-labeled for binding potential analysis. PLoS ONE, 2021, 16, e0245580.	2.5	5
6	Scatter Correction Based on GPU-Accelerated Full Monte Carlo Simulation for Brain PET/MRI. IEEE Transactions on Medical Imaging, 2020, 39, 140-151.	8.9	15
7	mGluR5 receptor availability is associated with lower levels of negative symptoms and better cognition in male patients with chronic schizophrenia. Human Brain Mapping, 2020, 41, 2762-2781.	3.6	20
8	Improving the CT (140ÂkVp) to PET (511ÂkeV) conversion in PET/MR hardware component attenuation correction. Medical Physics, 2020, 47, 2116-2127.	3.0	8
9	Design, evaluation and comparison of endorectal coils for hybrid MR-PET imaging of the prostate. Physics in Medicine and Biology, 2020, 65, 115005.	3.0	7
10	The JÃ¼lich Experience With Simultaneous 3T MR-BrainPET: Methods and Technology. IEEE Transactions on Radiation and Plasma Medical Sciences, 2019, 3, 352-362.	3.7	14
11	Interslice current change constrained B₀ shim optimization for accurate highâ€order dynamic shim updating with strongly reduced eddy currents. Magnetic Resonance in Medicine, 2019, 82, 263-275.	3.0	16
12	Simultaneous PET-MR-EEG: Technology, Challenges and Application in Clinical Neuroscience. IEEE Transactions on Radiation and Plasma Medical Sciences, 2019, 3, 377-385.	3.7	9
13	Image-based Motion Correction for the Siemens hybrid-MR/BrainPET Scanner. Nuklearmedizin - NuclearMedicine, 2019, 58, .	0.7	4
14	PET attenuation correction for rigid MR Tx/Rx coils from¹⁷⁶Lu background activity. Physics in Medicine and Biology, 2018, 63, 035039.	3.0	11
15	Alternative headphones for patient noise protection and communication in PET-MR studies of the brain. EJNMMI Research, 2018, 8, 106.	2.5	7
16	Multimodal Fingerprints of Resting State Networks as assessed by Simultaneous Trimodal MR-PET-EEG Imaging. Scientific Reports, 2017, 7, 6452.	3.3	23
17	Simultaneous trimodal PET-MR-EEG imaging: Do EEG caps generate artefacts in PET images?. PLoS ONE, 2017, 12, e0184743.	2.5	11
18	New Imaging Method of Positrons Leaving the Source Application for PET/MR hybrid Scanners -. , 2017, , .		1

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19	Reconstruction of attenuation maps for a PET/MR scanner based on the LSO background activity. , 2015, , .		0
20	Simultaneous trimodal MR-PET-EEG imaging for the investigation of resting state networks in humans. EJNMMI Physics, 2015, 2, A71.	2.7	2
21	Dual-time-point O-(2-[18F]fluoroethyl)-L-tyrosine PET for grading of cerebral gliomas. European Radiology, 2015, 25, 3017-3024.	4.5	76
22	Automatic derivation of an MR-PET image-based input function for quantification of 18F-FET. EJNMMI Physics, 2015, 2, A27.	2.7	4
23	Comparison of Cerebral Blood Flow Acquired by Simultaneous [¹⁵O]Water Positron Emission Tomography and Arterial Spin Labeling Magnetic Resonance Imaging. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 1373-1380.	4.3	118
24	Relationship of regional cerebral blood flow and kinetic behaviour of O-(2-18F-fluoroethyl)-L-tyrosine uptake in cerebral gliomas. Nuclear Medicine Communications, 2014, 35, 245-251.	1.1	18
25	High-resolution, quantitative 3D PET image reconstruction for the Siemens hybrid 3T MR/BrainPET scanner using the PET reconstruction software toolkit (PRESTO). EJNMMI Physics, 2014, 1, A51.	2.7	4
26	Effects of Magnetic Fields of up to 9.4 T on Resolution and Contrast of PET Images as Measured with an MR-BrainPET. PLoS ONE, 2014, 9, e95250.	2.5	28
27	MR-guided data framing for PET motion correction in simultaneous MRâ€“PET: A preliminary evaluation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 702, 67-69.	1.6	5
28	Multimodal imaging: Simultaneous EEG in a 3T Hybrid MRâ€“PET system. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 702, 37-38.	1.6	2
29	Quantitative PET imaging with the 3T MR-BrainPET. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 702, 26-28.	1.6	3
30	Towards improved hardware component attenuation correction in PET/MR hybrid imaging. Physics in Medicine and Biology, 2013, 58, 8021-8040.	3.0	56
31	Analysis and Correction of Count Rate Reduction During Simultaneous MR-PET Measurements With the BrainPET Scanner. IEEE Transactions on Medical Imaging, 2012, 31, 1372-1380.	8.9	33
32	Multimodal imaging utilising integrated MR-PET for human brain tumour assessment. European Radiology, 2012, 22, 2568-2580.	4.5	64
33	MR-Based PET Motion Correction Procedure for Simultaneous MR-PET Neuroimaging of Human Brain. PLoS ONE, 2012, 7, e48149.	2.5	38
34	The effect of MR surface coils on PET quantification in whole-body PET/MR: Results from a pseudo-PET/MR phantom study. Medical Physics, 2011, 38, 2795-2805.	3.0	76
35	High resolution BrainPET combined with simultaneous MRI. Nuklearmedizin - NuclearMedicine, 2011, 50, 74-82.	0.7	138
36	Representation of virtual arm movements in precuneus. Experimental Brain Research, 2011, 208, 543-555.	1.5	47

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37	MR-PET opens new horizons in neuroimaging. Future Neurology, 2010, 5, 807-815.	0.5	9
38	Distinct cortico-cerebellar activations in rhythmic auditory motor synchronization. Cortex, 2009, 45, 44-53.	2.4	94
39	Comparison of 18F-FET and 18F-FDG PET in brain tumors. Nuclear Medicine and Biology, 2009, 36, 779-787.	0.6	177
40	PET imaging problems with the non-standard positron emitters Yttrium-86 and Iodine-124. Quarterly Journal of Nuclear Medicine and Molecular Imaging, 2008, 52, 159-65.	0.7	38
41	Visual cortex activation in kinesthetic guidance of reaching. Experimental Brain Research, 2007, 179, 607-619.	1.5	22
42	Assessment of the short-lived non-pure positron-emitting nuclide 120I for PET imaging. European Journal of Nuclear Medicine and Molecular Imaging, 2006, 33, 1249-1257.	6.4	14
43	Concepts of Registration and Correction of Head Motion in Positron Emission Tomography. Zeitschrift Fur Medizinische Physik, 2006, 16, 67-74.	1.5	15
44	Motion correction eliminates discontinuities in parametric PET images of neuroreceptor binding. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, S622-S622.	4.3	0
45	PET with O-(2-18F-Fluoroethyl)-L-Tyrosine in peripheral tumors: first clinical results. Journal of Nuclear Medicine, 2005, 46, 411-6.	5.0	75
46	On the use of positioning aids to reduce misregistration in the head and neck in whole-body PET/CT studies. Journal of Nuclear Medicine, 2005, 46, 596-602.	5.0	40
47	Motion artifact reduction on parametric PET images of neuroreceptor binding. Journal of Nuclear Medicine, 2005, 46, 1059-65.	5.0	43
48	NEMA NU2-2001 guided performance evaluation of four Siemens ECAT PET scanners. IEEE Transactions on Nuclear Science, 2004, 51, 2662-2669.	2.0	55
49	Neural mechanisms underlying reaching for remembered targets cued kinesthetically or visually in left or right hemispace. Human Brain Mapping, 2004, 21, 165-177.	3.6	43
50	Comparison of O-(2-18F-fluoroethyl)-L-tyrosine PET and 3-123I-iodo-alpha-methyl-L-tyrosine SPECT in brain tumors. Journal of Nuclear Medicine, 2004, 45, 374-81.	5.0	65
51	Lexical decision of nonwords and pseudowords in humans: a positron emission tomography study. Neuroscience Letters, 2003, 345, 177-181.	2.1	27
52	Conscious and Subconscious Sensorimotor Synchronizationâ€"Prefrontal Cortex and the Influence of Awareness. NeuroImage, 2002, 15, 345-352.	4.2	119
53	Neural correlates of visuospatial imagery. Behavioural Brain Research, 2002, 131, 163-168.	2.2	37
54	Hemispheric dissociation of visual-pattern processing and visual rotation. Behavioural Brain Research, 2002, 136, 533-544.	2.2	52

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55	Brain systems engaged in encoding and retrieval of word-pair associates independent of their imagery content or presentation modalities. Neuropsychologia, 2002, 40, 457-470.	1.6	44
56	PET quantitation and imaging of the non-pure positron-emitting iodine isotope 124I. Applied Radiation and Isotopes, 2002, 56, 673-679.	1.5	64
57	Neural correlates of religious experience. European Journal of Neuroscience, 2001, 13, 1649-1652.	2.6	194
58	Interdependence of Regional and Global Cerebral Blood Flow during Visual Stimulation: An O-15-Butanol Positron Emission Tomography Study. Journal of Cerebral Blood Flow and Metabolism, 2001, 21, 664-670.	4.3	30
59	The motion aftereffect: more than area V5/MT?. Brain Research, 2001, 892, 281-292.	2.2	26
60	Neural consequences of acting in near versus far space: a physiological basis for clinical dissociations. Brain, 2000, 123, 2531-2541.	7.6	230
61	Modulation of the neuronal circuitry subserving working memory in healthy human subjects by repetitive transcranial magnetic stimulation. Neuroscience Letters, 2000, 280, 167-170.	2.1	139
62	Episodic retrieval activates the precuneus irrespective of the imagery content of word pair associates. Brain, 1999, 122, 255-263.	7.6	168
63	Functional anatomy of intrinsic alertness: evidencefor a fronto-parietal-thalamic-brainstem network in theright hemisphere. Neuropsychologia, 1999, 37, 797-805.	1.6	413
64	Encoding and retrieval in declarative learning: a positron emission tomography study. Behavioural Brain Research, 1998, 97, 69-78.	2.2	63
65	Role of the Premotor Cortex in Recovery From Middle Cerebral Artery Infarction. Archives of Neurology, 1998, 55, 1081.	4.5	362
66	Representations of Graphomotor Trajectories in the Human Parietal Cortex: Evidence for Controlled Processing and Automatic Performance. European Journal of Neuroscience, 1997, 9, 378-389.	2.6	110
67	Dynamic scanning of 15O-butanol with positron emission tomography can identify regional cerebral activations. , 1997, 5, 364-378.		17
68	Shift of motor hand representation in precentral gliomas: Evidence from positron emission tomography and neurophysiology. NeuroImage, 1996, 3, S597.	4.2	0
69	Identification of significant cerebral activations using dynamic PET scanning of 15O-butanol uptake. NeuroImage, 1996, 3, S91.	4.2	1
70	Quantitation of Regional Cerebral Blood Flow with 15O-Butanol and Positron Emission Tomography in Humans. Journal of Cerebral Blood Flow and Metabolism, 1996, 16, 645-649.	4.3	63
71	Neurophysiology of the human supplementary motor area. Positron emission tomography. Advances in Neurology, 1996, 70, 167-75.	0.8	5
72	Large-scale plasticity of the human motor cortex. NeuroReport, 1995, 6, 742-744.	1.2	220

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73	Pharmacokinetics and radiation dose of oxygen-15 labelled butanol in rCBF studies in humans. European Journal of Nuclear Medicine and Molecular Imaging, 1994, 21, 138-43.	2.1	14
74	Impact of motion correction on parametric images in PET neuroreceptor studies. , 0, , .		0
75	NEMANU2-2001 guided performance evaluation of four Siemens ECAT PET-scanners. , 0, , .		0
76	Motion correction of head movements in PET: realisation for routine usage. , 0, , .		3
77	Characterization of the Short-Lived Non-Pure Positron Emitter /sup 120/I for PET Imaging. , 0, , .		0