

# Lutz Tellmann

## List of Publications by Year in descending order

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77  
papers

3,984  
citations

156536

32  
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134545

62  
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82  
all docs

82  
docs citations

82  
times ranked

4906  
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.	5.4	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.	2.4	7
3	A Linearized Fit Model for Robust Shape Parameterization of FET-PET TACs. IEEE Transactions on Medical Imaging, 2021, 40, 1-1.	5.4	2
4	Design and Construction of a PET-Compatible Double-Tuned $^1\text{H}/^{31}\text{P}$ MR Head Coil. IEEE Transactions on Medical Imaging, 2021, 40, 2015-2022.	5.4	3
5	Bias evaluation and reduction in 3D OP-OSEM reconstruction in dynamic equilibrium PET studies with $^{11}\text{C}$ -labeled for binding potential analysis. PLoS ONE, 2021, 16, e0245580.	1.1	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.	5.4	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.	1.9	20
8	Improving the CT ( $140\text{ÅkVp}$ ) to PET ( $511\text{ÅkeV}$ ) conversion in PET/MR hardware component attenuation correction. Medical Physics, 2020, 47, 2116-2127.	1.6	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.	1.6	7
10	The Jülich Experience With Simultaneous 3T MR-BrainPET: Methods and Technology. IEEE Transactions on Radiation and Plasma Medical Sciences, 2019, 3, 352-362.	2.7	14
11	Interslice current change constrained $B_0$ shim optimization for accurate high-order dynamic shim updating with strongly reduced eddy currents. Magnetic Resonance in Medicine, 2019, 82, 263-275.	1.9	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.	2.7	9
13	Image-based Motion Correction for the Siemens hybrid-MR/BrainPET Scanner. Nuklearmedizin - NuclearMedicine, 2019, 58, .	0.3	4
14	PET attenuation correction for rigid MR Tx/Rx coils from $^{176}\text{Lu}$ background activity. Physics in Medicine and Biology, 2018, 63, 035039.	1.6	11
15	Alternative headphones for patient noise protection and communication in PET-MR studies of the brain. EJNMMI Research, 2018, 8, 106.	1.1	7
16	Multimodal Fingerprints of Resting State Networks as assessed by Simultaneous Trimodal MR-PET-EEG Imaging. Scientific Reports, 2017, 7, 6452.	1.6	23
17	Simultaneous trimodal PET-MR-EEG imaging: Do EEG caps generate artefacts in PET images?. PLoS ONE, 2017, 12, e0184743.	1.1	11
18	New Imaging Method of Positrons Leaving the Source Application for PET/MR hybrid Scanners -. , 2017, , .		1

#	ARTICLE	IF	CITATIONS
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.	1.3	2
21	Dual-time-point O-(2-[18F]fluoroethyl)-L-tyrosine PET for grading of cerebral gliomas. European Radiology, 2015, 25, 3017-3024.	2.3	76
22	Automatic derivation of an MR-PET image-based input function for quantification of 18F-FET. EJNMMI Physics, 2015, 2, A27.	1.3	4
23	Comparison of Cerebral Blood Flow Acquired by Simultaneous [ <sup>15</sup> O]Water Positron Emission Tomography and Arterial Spin Labeling Magnetic Resonance Imaging. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 1373-1380.	2.4	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.	0.5	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.	1.3	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.	1.1	28
27	MR-guided data framing for PET motion correction in simultaneous MR-PET: A preliminary evaluation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 702, 67-69.	0.7	5
28	Multimodal imaging: Simultaneous EEG in a 3T Hybrid MR-PET system. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 702, 37-38.	0.7	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.	0.7	3
30	Towards improved hardware component attenuation correction in PET/MR hybrid imaging. Physics in Medicine and Biology, 2013, 58, 8021-8040.	1.6	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.	5.4	33
32	Multimodal imaging utilising integrated MR-PET for human brain tumour assessment. European Radiology, 2012, 22, 2568-2580.	2.3	64
33	MR-Based PET Motion Correction Procedure for Simultaneous MR-PET Neuroimaging of Human Brain. PLoS ONE, 2012, 7, e48149.	1.1	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.	1.6	76
35	High resolution BrainPET combined with simultaneous MRI. Nuklearmedizin - NuclearMedicine, 2011, 50, 74-82.	0.3	138
36	Representation of virtual arm movements in precuneus. Experimental Brain Research, 2011, 208, 543-555.	0.7	47

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37	MR-PET opens new horizons in neuroimaging. <i>Future Neurology</i> , 2010, 5, 807-815.	0.9	9
38	Distinct cortico-cerebellar activations in rhythmic auditory motor synchronization. <i>Cortex</i> , 2009, 45, 44-53.	1.1	94
39	Comparison of 18F-FET and 18F-FDG PET in brain tumors. <i>Nuclear Medicine and Biology</i> , 2009, 36, 779-787.	0.3	177
40	PET imaging problems with the non-standard positron emitters Yttrium-86 and Iodine-124. <i>Quarterly Journal of Nuclear Medicine and Molecular Imaging</i> , 2008, 52, 159-65.	0.4	38
41	Visual cortex activation in kinesthetic guidance of reaching. <i>Experimental Brain Research</i> , 2007, 179, 607-619.	0.7	22
42	Assessment of the short-lived non-pure positron-emitting nuclide <sup>120</sup> I for PET imaging. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2006, 33, 1249-1257.	3.3	14
43	Concepts of Registration and Correction of Head Motion in Positron Emission Tomography. <i>Zeitschrift Fur Medizinische Physik</i> , 2006, 16, 67-74.	0.6	15
44	Motion correction eliminates discontinuities in parametric PET images of neuroreceptor binding. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005, 25, S622-S622.	2.4	0
45	PET with O-(2-18F-Fluoroethyl)-L-Tyrosine in peripheral tumors: first clinical results. <i>Journal of Nuclear Medicine</i> , 2005, 46, 411-6.	2.8	75
46	On the use of positioning aids to reduce misregistration in the head and neck in whole-body PET/CT studies. <i>Journal of Nuclear Medicine</i> , 2005, 46, 596-602.	2.8	40
47	Motion artifact reduction on parametric PET images of neuroreceptor binding. <i>Journal of Nuclear Medicine</i> , 2005, 46, 1059-65.	2.8	43
48	NEMA NU2-2001 guided performance evaluation of four Siemens ECAT PET scanners. <i>IEEE Transactions on Nuclear Science</i> , 2004, 51, 2662-2669.	1.2	55
49	Neural mechanisms underlying reaching for remembered targets cued kinesthetically or visually in left or right hemisphere. <i>Human Brain Mapping</i> , 2004, 21, 165-177.	1.9	43
50	Comparison of O-(2-18F-fluoroethyl)-L-tyrosine PET and 3-123I-iodo-alpha-methyl-L-tyrosine SPECT in brain tumors. <i>Journal of Nuclear Medicine</i> , 2004, 45, 374-81.	2.8	65
51	Lexical decision of nonwords and pseudowords in humans: a positron emission tomography study. <i>Neuroscience Letters</i> , 2003, 345, 177-181.	1.0	27
52	Conscious and Subconscious Sensorimotor Synchronization – Prefrontal Cortex and the Influence of Awareness. <i>NeuroImage</i> , 2002, 15, 345-352.	2.1	119
53	Neural correlates of visuospatial imagery. <i>Behavioural Brain Research</i> , 2002, 131, 163-168.	1.2	37
54	Hemispheric dissociation of visual-pattern processing and visual rotation. <i>Behavioural Brain Research</i> , 2002, 136, 533-544.	1.2	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. <i>Neuropsychologia</i> , 2002, 40, 457-470.	0.7	44
56	PET quantitation and imaging of the non-pure positron-emitting iodine isotope 124I. <i>Applied Radiation and Isotopes</i> , 2002, 56, 673-679.	0.7	64
57	Neural correlates of religious experience. <i>European Journal of Neuroscience</i> , 2001, 13, 1649-1652.	1.2	194
58	Interdependence of Regional and Global Cerebral Blood Flow during Visual Stimulation: An O-15-Butanol Positron Emission Tomography Study. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2001, 21, 664-670.	2.4	30
59	The motion aftereffect: more than area V5/MT?. <i>Brain Research</i> , 2001, 892, 281-292.	1.1	26
60	Neural consequences of acting in near versus far space: a physiological basis for clinical dissociations. <i>Brain</i> , 2000, 123, 2531-2541.	3.7	230
61	Modulation of the neuronal circuitry subserving working memory in healthy human subjects by repetitive transcranial magnetic stimulation. <i>Neuroscience Letters</i> , 2000, 280, 167-170.	1.0	139
62	Episodic retrieval activates the precuneus irrespective of the imagery content of word pair associates. <i>Brain</i> , 1999, 122, 255-263.	3.7	168
63	Functional anatomy of intrinsic alertness: evidence for a fronto-parietal-thalamic-brainstem network in the right hemisphere. <i>Neuropsychologia</i> , 1999, 37, 797-805.	0.7	413
64	Encoding and retrieval in declarative learning: a positron emission tomography study. <i>Behavioural Brain Research</i> , 1998, 97, 69-78.	1.2	63
65	Role of the Premotor Cortex in Recovery From Middle Cerebral Artery Infarction. <i>Archives of Neurology</i> , 1998, 55, 1081.	4.9	362
66	Representations of Graphomotor Trajectories in the Human Parietal Cortex: Evidence for Controlled Processing and Automatic Performance. <i>European Journal of Neuroscience</i> , 1997, 9, 378-389.	1.2	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. <i>NeuroImage</i> , 1996, 3, S597.	2.1	0
69	Identification of significant cerebral activations using dynamic PET scanning of 15O-butanol uptake. <i>NeuroImage</i> , 1996, 3, S91.	2.1	1
70	Quantitation of Regional Cerebral Blood Flow with 15O-Butanol and Positron Emission Tomography in Humans. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1996, 16, 645-649.	2.4	63
71	Neurophysiology of the human supplementary motor area. Positron emission tomography. <i>Advances in Neurology</i> , 1996, 70, 167-75.	0.8	5
72	Large-scale plasticity of the human motor cortex. <i>NeuroReport</i> , 1995, 6, 742-744.	0.6	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.	2.2	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</sup> I for PET Imaging. , 0, , .		0