Uwe K Pietrzyk

List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/3732356/uwe-k-pietrzyk-publications-by-year.pdf

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

95 6,397 37 79 g-index

104 7,351 4.4 4.66 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
95	Advanced Monte Carlo simulations of emission tomography imaging systems with GATE. <i>Physics in Medicine and Biology</i> , 2021 , 66,	3.8	9
94	PET attenuation correction for rigid MR Tx/Rx coils from Lu background activity. <i>Physics in Medicine and Biology</i> , 2018 , 63, 035039	3.8	6
93	Prediction of Alzheimer's Dementia in Patients with Amnestic Mild Cognitive Impairment in Clinical Routine: Incremental Value of Biomarkers of Neurodegeneration and Brain Amyloidosis Added Stepwise to Cognitive Status. <i>Journal of Alzheimera Disease</i> , 2018 , 61, 373-388	4.3	14
92	3D Polarized Light Imaging Portrayed: Visualization of Fiber Architecture Derived from 3D-PLI 2018 ,		2
91	Mental speed is associated with the shape irregularity of white matter MRI hyperintensity load. <i>Brain Imaging and Behavior</i> , 2017 , 11, 1720-1730	4.1	5
90	Visualization of Vector Fields Derived from 3D Polarized Light Imaging. <i>Informatik Aktuell</i> , 2016 , 176-18	B15.3	2
89	Understanding fiber mixture by simulation in 3D Polarized Light Imaging. <i>NeuroImage</i> , 2015 , 111, 464-7	5 7.9	35
88	A multiscale approach for the reconstruction of the fiber architecture of the human brain based on 3D-PLI. <i>Frontiers in Neuroanatomy</i> , 2015 , 9, 118	3.6	27
87	A review of the use and potential of the GATE Monte Carlo simulation code for radiation therapy and dosimetry applications. <i>Medical Physics</i> , 2014 , 41, 064301	4.4	219
86	GPU-accelerated Monte Carlo based scatter correction in brain PET/MR. EJNMMI Physics, 2014, 1, A32	4.4	5
85	High-resolution, quantitative 3D PET image reconstruction for the Siemens hybrid 3T MR/BrainPET scanner using the PET reconstruction software toolkit (PRESTO). <i>EJNMMI Physics</i> , 2014 , 1, A51	4.4	3
84	Model-based verification of a non-linear separation scheme for ballistocardiography. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2014 , 18, 174-82	7.2	20
83	Polarized light imaging of the human brain: a new approach to the data analysis of tilted sections 2014 ,		2
82	Does PET/MR in human brain imaging provide optimal co-registration? A critical reflection. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2013 , 26, 137-47	2.8	5
81	EduGATE - basic examples for educative purpose using the GATE simulation platform. <i>Zeitschrift Fur Medizinische Physik</i> , 2013 , 23, 65-70	7.6	6
80	Monte Carlo simulations of GeoPET experiments: 3D images of tracer distributions (18F, 124I and 58Co) in Opalinus clay, anhydrite and quartz. <i>Computers and Geosciences</i> , 2013 , 57, 183-196	4.5	13
79	Extracting the inclination angle of nerve fibers within the human brain with 3D-PLI independent of system properties 2013 ,		3

78	Automatic identification of gray and white matter components in polarized light imaging. <i>NeuroImage</i> , 2012 , 59, 1338-47	7.9	15
77	Integration of FDG-PET/CT into external beam radiation therapy planning: technical aspects and recommendations on methodological approaches. <i>Nuklearmedizin - NuclearMedicine</i> , 2012 , 51, 140-53	1.8	45
76	Classification of ambiguous nerve fiber orientations in 3D polarized light imaging. <i>Lecture Notes in Computer Science</i> , 2012 , 15, 206-13	0.9	4
75	GATE V6: a major enhancement of the GATE simulation platform enabling modelling of CT and radiotherapy. <i>Physics in Medicine and Biology</i> , 2011 , 56, 881-901	3.8	488
74	A novel approach to the human connectome: ultra-high resolution mapping of fiber tracts in the brain. <i>NeuroImage</i> , 2011 , 54, 1091-101	7.9	171
73	High-resolution fiber tract reconstruction in the human brain by means of three-dimensional polarized light imaging. <i>Frontiers in Neuroinformatics</i> , 2011 , 5, 34	3.9	110
72	GATE based Monte Carlo simulation of planar scintigraphy to estimate the nodular dose in radioiodine therapy for autonomous thyroid adenoma. <i>Zeitschrift Fur Medizinische Physik</i> , 2011 , 21, 290	-360	4
71	Simulation studies of optical photons in monolithic block scintillators 2011 ,		2
70	Using Monte-Carlo simulations to implement corrections for I-124 as a non-pure positron emitter in small animal and human PET imaging 2011 ,		2
69	Towards ultra-high resolution fibre tract mapping of the human brain - registration of polarised light images and reorientation of fibre vectors. <i>Frontiers in Human Neuroscience</i> , 2010 , 4, 9	3.3	31
68	Signal enhancement in polarized light imaging by means of independent component analysis. <i>NeuroImage</i> , 2010 , 49, 1241-8	7.9	29
67	Evaluation of registration strategies for multi-modality images of rat brain slices. <i>Physics in Medicine and Biology</i> , 2009 , 54, 3269-89	3.8	9
66	Integration of amplitude and phase statistics for complete artifact removal in independent components of neuromagnetic recordings. <i>IEEE Transactions on Biomedical Engineering</i> , 2008 , 55, 2353-	6 2	68
65	Fusion of rat brain histology and MRI using weighted multi-image mutual information 2008,		2
64	MR-based attenuation correction for torso-PET/MR imaging: pitfalls in mapping MR to CT data. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2008 , 35, 1142-6	8.8	91
63	Whole-body PET/CT imaging: combining software- and hardware-based co-registration. <i>Zeitschrift Fur Medizinische Physik</i> , 2008 , 18, 59-66	7.6	16
62	Uptake of 18F-FLT and 18F-FDG in primary head and neck cancer correlates with survival. <i>Nuklearmedizin - NuclearMedicine</i> , 2008 , 47, 80-85	1.8	38
61	Quantifying the A1AR distribution in peritumoural zones around experimental F98 and C6 rat brain tumours. <i>Journal of Neuro-Oncology</i> , 2007 , 85, 49-63	4.8	13

60	Virtual scanner geometry for iterative 3D PET reconstruction adaptable to complex and irregular scanner topologies 2007 ,		1
59	Nerve fiber mapping of the human visual cortex using Polarized Light Imaging (PLI) 2007,		3
58	Processing the spatial configuration of complex actions involves right posterior parietal cortex: An fMRI study with clinical implications. <i>Human Brain Mapping</i> , 2006 , 27, 1004-14	5.9	27
57	Concepts of registration and correction of head motion in positron emission tomography. <i>Zeitschrift Fur Medizinische Physik</i> , 2006 , 16, 67-74	7.6	12
56	Parallel List-Mode Reconstruction and Calculation of the System Matrix for the High-Resolution ClearPET Neuro 2006 ,		1
55	FIRST RESULTS WITH THE CLEARPET SMALL ANIMAL PET SCANNERS 2006 , 149-164		2
54	Linking retinotopic fMRI mapping and anatomical probability maps of human occipital areas V1 and V2. <i>NeuroImage</i> , 2005 , 26, 73-82	7.9	58
53	Motion correction eliminates discontinuities in parametric PET images of neuroreceptor binding. Journal of Cerebral Blood Flow and Metabolism, 2005 , 25, S622-S622	7.3	
52	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	8.9	37
51	Motion artifact reduction on parametric PET images of neuroreceptor binding. <i>Journal of Nuclear Medicine</i> , 2005 , 46, 1059-65	8.9	40
50	NEMA NU2-2001 guided performance evaluation of four Siemens ECAT PET scanners. <i>IEEE Transactions on Nuclear Science</i> , 2004 , 51, 2662-2669	1.7	43
49	GATE: a simulation toolkit for PET and SPECT. <i>Physics in Medicine and Biology</i> , 2004 , 49, 4543-61	3.8	1239
48	The ClearPET project. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2004 , 527, 171-174	1.2	29
47	A functional magnetic resonance imaging study of local/global processing with stimulus presentation in the peripheral visual hemifields. <i>Neuroscience</i> , 2004 , 124, 113-20	3.9	81
46	Korrektur der Kopfbewegung willrend einer PET-Untersuchung lein spezielles Problem der Bildregistrierung. <i>Informatik Aktuell</i> , 2004 , 299-303	0.3	
45	Postictal psychosis in temporal lobe epilepsy. <i>Epilepsia</i> , 2003 , 44, 582-90	6.4	62
44	Design optimization of the PMT-ClearPET prototypes based on simulation studies with GEANT3. <i>IEEE Transactions on Nuclear Science</i> , 2003 , 50, 1428-1432	1.7	25
43	Registration of MRI and PET Images for Clinical Applications. <i>Biomedical Engineering Series</i> , 2001 , 199-7	216	3

42	Relation between 1H MR spectroscopic imaging and regional cerebral glucose metabolism in Alzheimer disease. <i>International Journal of Neuroscience</i> , 2001 , 107, 233-45	2	19
41	Estimation of regional cerebral blood flow levels in ischemia using [(15)O]water of [(11)C]flumazenil PET without arterial input function. <i>Journal of Computer Assisted Tomography</i> , 2001 , 25, 446-51	2.2	14
40	Noise Characteristic of 3D PET Scans from Single Subject Activation Studies 2001 , 281-287		1
39	Interictal hippocampal benzodiazepine receptors in temporal lobe epilepsy: comparison with coregistered hippocampal metabolism and volumetry. <i>European Journal of Neurology</i> , 2000 , 7, 393-400	6	22
38	Enhanced Accuracy in Differential Diagnosis of Radiation Necrosis by Positron Emission Tomography-Magnetic Resonance Imaging Coregistration: Technical Case Report. <i>Neurosurgery</i> , 2000 , 46, 232-234	3.2	44
37	2[F]-fluoro-2-deoxy-D-glucose positron emission tomography is a sensitive tool for the detection of occult primary cancer (carcinoma of unknown primary syndrome) with head and neck lymph node manifestation. <i>Otolaryngology - Head and Neck Surgery</i> , 2000 , 123, 294-301	5.5	118
36	Enhanced Accuracy in Differential Diagnosis of Radiation Necrosis by Positron Emission Tomography-Magnetic Resonance Imaging Coregistration: Technical Case Report. <i>Neurosurgery</i> , 2000 , 232-234	3.2	22
35	Detection of unknown primary cancer with fluor-deoxy-glucose positron emission tomography. <i>Annals of Otology, Rhinology and Laryngology</i> , 1999 , 108, 623-6	2.1	5
34	Regional cerebral blood flow during temporal lobe seizures associated with ictal vomiting: an ictal SPECT study in two patients. <i>Epilepsia</i> , 1999 , 40, 1085-91	6.4	18
33	Localization of language-related cortex with 15O-labeled water PET in patients with gliomas. <i>NeuroImage</i> , 1998 , 7, 284-95	7.9	90
32	Flow visualization in porous media via Positron Emission Tomography. <i>Physics of Fluids</i> , 1998 , 10, 1031-	1 <u>0</u> 3 ₁ 3	53
31	Bildregistrierung und -Berlagerung: Eine Hybridl\(\mathbb{B}\)ung aus interaktiven und automatisierten Verfahren. <i>Informatik Aktuell</i> , 1998 , 39-43	0.3	
30	Functional effects of striatal dysfunction in Parkinson disease. <i>Archives of Neurology</i> , 1997 , 54, 145-50		87
29	11C-methionine and 18F-2-fluorodeoxyglucose positron emission tomography: a tool for diagnosis of cerebral glioma and monitoring after brachytherapy with 125I seeds. <i>Stereotactic and Functional Neurosurgery</i> , 1997 , 69, 129-35	1.6	73
28	Speech-induced cerebral metabolic activation reflects recovery from aphasia. <i>Journal of the Neurological Sciences</i> , 1997 , 145, 213-7	3.2	138
27	Spatial transformation during 3D reconstruction in positron emission tomography. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 1997 , 24, 1413-7	8.8	5
26	Multiple nonprimary motor areas in the human cortex. <i>Journal of Neurophysiology</i> , 1997 , 77, 2164-74	3.2	421
25	Clinical applications of registration and fusion of multimodality brain images from PET, SPECT, CT, and MRI. <i>European Journal of Radiology</i> , 1996 , 21, 174-82	4.7	57

24	Use of 201Thallium brain SPECT, image registration, and semi-quantitative analysis in the follow-up of brain tumors. <i>European Journal of Radiology</i> , 1996 , 21, 188-95	4.7	15
23	Individual functional anatomy of verb generation. <i>NeuroImage</i> , 1996 , 3, 185-94	7.9	197
22	Qualitative [18F]FDG positron emission tomography in primary breast cancer: clinical relevance and practicability. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 1996 , 23, 618-23		118
21	Glucose consumption and methionine uptake in low-grade gliomas after iodine-125 brachytherapy. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 1996 , 23, 583-6		75
20	Diaschisis of specific cerebellar lobules: pontine haematoma studied with high-resolution PET and MRI. <i>Journal of Neurology</i> , 1996 , 243, 131-6	5.5	7
19	Functional neuroanatomy of the human visual fixation system. <i>European Journal of Neuroscience</i> , 1995 , 7, 169-74	3.5	52
18	Planum temporale and Brodmann's area 22. Magnetic resonance imaging and high-resolution positron emission tomography demonstrate functional left-right asymmetry. <i>Archives of Neurology</i> , 1995 , 52, 869-74		43
17	Regional cerebral blood flow and metabolism in Sturge-Weber disease. <i>Clinical Nuclear Medicine</i> , 1995 , 20, 522-3	1.7	15
16	HMPAO SPET and FDG PET in Alzheimer's disease and vascular dementia: comparison of perfusion and metabolic pattern. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 1994 , 21, 1052-60		89
15	Individual metabolic anatomy of repeating words demonstrated by MRI-guided positron emission tomography. <i>Neuroscience Letters</i> , 1994 , 182, 47-50	3.3	39
14	The ECAT EXACT HR. Journal of Computer Assisted Tomography, 1994, 18, 110-118	2.2	405
13	A positron emission tomography study of oculomotor imagery. <i>NeuroReport</i> , 1994 , 5, 921-4	1.7	80
12	Peri-Infarct perfusion in human ischemia: Its relation to tissue metabolism, morphology, and clinical outcome. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 1993 , 3, 123-31	2.8	11
11	Correlation of glucose consumption and tumor cell density in astrocytomas. A stereotactic PET study. <i>Journal of Neurosurgery</i> , 1993 , 79, 853-8	3.2	109
10	Functional and morphological imaging of small striato-capsular infarction by CT, MRI and multitracer PET. <i>Neurological Research</i> , 1992 , 14, 139-42	2.7	2
9	Performance evaluation of the positron scanner ECAT EXACT. <i>Journal of Computer Assisted Tomography</i> , 1992 , 16, 804-13	2.2	166
8	Progressive derangement of periinfarct viable tissue in ischemic stroke. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1992 , 12, 193-203	7:3	369
7	Comparison of [99mTc]HMPAO SPECT with [18F]fluoromethane PET in cerebrovascular disease. Journal of Cerebral Blood Flow and Metabolism, 1990 , 10, 687-97	7.3	36

LIST OF PUBLICATIONS

6	Regional cerebral blood flow in patients with leuko-araiosis and atherosclerotic carotid artery disease. <i>Archives of Neurology</i> , 1990 , 47, 392-6		95
5	Measurement of blood-brain hexose transport with dynamic PET: comparison of [18F]2-fluoro-2-deoxyglucose and [11C]O-methylglucose. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1989 , 9, 104-10	7.3	10
4	Regional cerebral blood flow measurement with intravenous [150]water bolus and [18F]fluoromethane inhalation. <i>Stroke</i> , 1989 , 20, 1174-81	6.7	17
3	Event-by-event motion compensation in 3D PET		3
2	Motion correction of head movements in PET: realisation for routine usage		1
1	Evaluierung von Registrierungsstrategien zur multimodalen 3D-Rekonstruktion von Rattenhirnschnitten	n251-	255