

# Gudrun Wagenknecht

## List of Publications by Year in descending order

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26  
papers

490  
citations

1040056

9  
h-index

1199594

12  
g-index

29  
all docs

29  
docs citations

29  
times ranked

798  
citing authors

#	ARTICLE	IF	CITATIONS
1	(+)-[18F]Flubatine as a novel $\alpha_4\beta_2$ nicotinic acetylcholine receptor PET ligand—results of the first-in-human brain imaging application in patients with $\beta_2$ -amyloid PET-confirmed Alzheimer's disease and healthy controls. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2021, 48, 731-746.	6.4	10
2	Cognitive correlates of $\alpha_4\beta_2$ nicotinic acetylcholine receptors in mild Alzheimer's dementia. <i>Brain</i> , 2018, 141, 1840-1854.	7.6	60
3	First-in-human PET quantification study of cerebral $\alpha_4\beta_2^*$ nicotinic acetylcholine receptors using the novel specific radioligand ( $\alpha$ )-[18F]Flubatine. <i>NeuroImage</i> , 2015, 118, 199-208.	4.2	49
4	Evaluation of metabolism, plasma protein binding and other biological parameters after administration of ( $\alpha$ )-[18F]Flubatine in humans. <i>Nuclear Medicine and Biology</i> , 2014, 41, 489-494.	0.6	18
5	Fully automated radiosynthesis of both enantiomers of [18F]Flubatine under GMP conditions for human application. <i>Applied Radiation and Isotopes</i> , 2013, 80, 7-11.	1.5	20
6	MRI for attenuation correction in PET: methods and challenges. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2013, 26, 99-113.	2.0	197
7	Viewpoints on Medical Image Processing: From Science to Application. <i>Current Medical Imaging</i> , 2013, 9, 79-88.	0.8	19
8	Attenuation correction in MR-BrainPET with segmented T1-weighted MR images of the patient's head &#x2014; A comparative study with CT. , 2011, , .		13
9	Erweiterung einer Toolbox zur semiautomatischen Volume-of-Interest Segmentierung kortikaler Gehirnregionen. <i>Informatik Aktuell</i> , 2011, , 404-408.	0.6	0
10	CT-based evaluation of segmented head regions for attenuation correction in MR-PET systems. , 2010, , .		11
11	Attenuation correction in MR-PET scanners with segmented T1-weighted MR images. , 2009, , .		14
12	A new combined live wire and active surface approach for volume-of-interest segmentation. , 2009, , .		2
13	Knowledge-based segmentation of attenuation-relevant regions of the head in T1-weighted MR images for attenuation correction in MR/PET systems. , 2009, , .		18
14	Volume-of-interest segmentation of cortical regions for multimodal brain analysis. , 2008, , .		4
15	TOPOLOGICAL CORRECTION OF VOLUMETRIC BINARY BRAIN SEGMENTATION USING A MULTISCALE ALGORITHM. , 2007, , .		2
16	Segmentation of ROIs/VOIs from small animal images for functional analysis. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2006, 569, 481-487.	1.6	3
17	Automated Topology Correction for Human Brain Segmentation. <i>Lecture Notes in Computer Science</i> , 2006, 9, 316-323.	1.3	7
18	Automatic Parameter Optimization for De-noising MR Data. <i>Lecture Notes in Computer Science</i> , 2005, 8, 320-327.	1.3	2

#	ARTICLE	IF	CITATIONS
19	<title>Automatic segmentation of brain hemispheres by midplane detection in class images</title>. , 2000, , .		0
20	<title>Dynamic programming algorithm for contrast correction in medical images</title>. , 2000, 3961, 216.		3
21	<title>Individual 3D region-of-interest atlas of the human brain: automatic training point extraction for neural-network-based classification of brain tissue types</title>. , 2000, 3962, 150.		0
22	<title>Individual 3D region-of-interest atlas of the human brain: neural-network-based tissue classification with automatic training point extraction</title>. , 2000, 3979, 306.		0
23	<title>Simulation of 3D MRI brain images for quantitative evaluation of image segmentation algorithms</title>. , 2000, 3979, 1074.		5
24	<title>Individual 3D region-of-interest atlas of the human brain: knowledge-based class image analysis for extraction of anatomical objects</title>. , 2000, , .		0
25	â€œEcstasy"-induced changes of cerebral glucose metabolism and their correlation to acute psychopathology. European Journal of Nuclear Medicine and Molecular Imaging, 1999, 26, 1572-1579.	6.4	18
26	Cerebral interregional correlations of associative language processing: a positron emission tomography activation study using fluorine-18 fluorodeoxyglucose. European Journal of Nuclear Medicine and Molecular Imaging, 1998, 25, 1511-1519.	6.4	12