Rainer Hinz

List of Publications by Citations

93 papers	3,543 citations	33 h-index	58 g-index
108 ext. papers	4,070 ext. citations	7.3 avg, IF	4.91 L-index

#	Paper	IF	Citations
93	Microglia, amyloid, and cognition in Alzheimer's disease: An [11C](R)PK11195-PET and [11C]PIB-PET study. *Neurobiology of Disease*, **2008**, 32, 412-9	7.5	395
92	Reference and target region modeling of [11C]-(R)-PK11195 brain studies. *Journal of Nuclear Medicine*, **2007**, 48, 158-67	8.9	207
91	Elevated Translocator Protein in Anterior Cingulate in Major Depression and a Role for Inflammation in Suicidal Thinking: A Positron Emission Tomography Study. *Biological Psychiatry*, **2018**, 83, 61-69	7.9	184
90	Microglia, amyloid, and glucose metabolism in Parkinson's disease with and without dementia. *Neuropsychopharmacology*, **2013**, 38, 938-49	8.7	158
89	Brain inflammation is induced by co-morbidities and risk factors for stroke. *Brain, Behavior, and Immunity*, **2011**, 25, 1113-22	16.6	150
88	A European multicentre PET study of fibrillar amyloid in Alzheimer's disease. *European Journal of Nuclear Medicine and Molecular Imaging*, **2013**, 40, 104-14	8.8	148
87	Increased 5-HT(2A) receptor binding in euthymic, medication-free patients recovered from depression: a positron emission study with [(11)C]MDL 100,907. *American Journal of Psychiatry*, **2006**, 163, 1580-7	11.9	143
86	P-glycoprotein expression and function in patients with temporal lobe epilepsy: a case-control study. *Lancet Neurology, The*, **2013**, 12, 777-85	24.1	130
85	Brain inflammation accompanies amyloid in the majority of mild cognitive impairment cases due to Alzheimer's disease. *Brain*, **2017**, 140, 2002-2011	11.2	105
84	On the undecidability among kinetic models: from model selection to model averaging. *Journal of Cerebral Blood Flow and Metabolism*, **2003**, 23, 490-8	7.3	103
83	Optimization of supervised cluster analysis for extracting reference tissue input curves in (R)-[(11)C]PK11195 brain PET studies. *Journal of Cerebral Blood Flow and Metabolism*, **2012**, 32, 1600-8	7.3	98
82	Microglial activation correlates in vivo with both tau and amyloid in Alzheimer's disease. *Brain*, **2018**, 141, 2740-2754	11.2	93
81	Upregulation of opioid receptor binding following spontaneous epileptic seizures. *Brain*, **2007**, 130, 1009-16	11.2	84
80	Flutriciclamide (18F-GE180) PET: First-in-Human PET Study of Novel Third-Generation In Vivo Marker of Human Translocator Protein. *Journal of Nuclear Medicine*, **2016**, 57, 1753-1759	8.9	75
79	In vivo imaging of brain microglial activity in antipsychotic-free and medicated schizophrenia: a [C](R)-PK11195 positron emission tomography study. *Molecular Psychiatry*, **2016**, 21, 1672-1679	15.1	65
78	Effects of citalopram infusion on the serotonin transporter binding of [11C]DASB in healthy controls. *Journal of Cerebral Blood Flow and Metabolism*, **2008**, 28, 1478-90	7.3	62
77	5-HTT binding in recovered depressed patients and healthy volunteers: a positron emission tomography study with [11C]DASB. *American Journal of Psychiatry*, **2007**, 164, 1858-65	11.9	62

76	The 18-kDa mitochondrial translocator protein in human gliomas: an 11C-(R)PK11195 PET imaging and neuropathology study. *Journal of Nuclear Medicine*, **2015**, 56, 512-7	8.9	60
75	Detection and quantification of large-vessel inflammation with 11C-(R)-PK11195 PET/CT. *Journal of Nuclear Medicine*, **2011**, 52, 33-9	8.9	59
74	Diminished brain 5-HT transporter binding in major depression: a positron emission tomography study with [11C]DASB. *Psychopharmacology*, **2011**, 213, 555-62	4.7	54
73	Comparative Evaluation of Three TSPO PET Radiotracers in a LPS-Induced Model of Mild Neuroinflammation in Rats. *Molecular Imaging and Biology*, **2017**, 19, 77-89	3.8	49
72	[□□C]-(R)PK11195 tracer kinetics in the brain of glioma patients and a comparison of two referencing approaches. *European Journal of Nuclear Medicine and Molecular Imaging*, **2013**, 40, 1406-19	8.8	44
71	Reproducibility of [11C]choline-positron emission tomography and effect of trastuzumab. *Clinical Cancer Research*, **2010**, 16, 4236-45	12.9	43
70	Brain serotonin transporter binding in former users of MDMA (□ecstasy□). *British Journal of Psychiatry*, **2009**, 194, 355-9	5.4	42
69	Balancing bias, reliability, noise properties and the need for parametric maps in quantitative ligand PET: [(11)C]diprenorphine test-retest data. *NeuroImage*, **2007**, 38, 82-94	7.9	41
68	Microglial activation in early Alzheimer trajectory is associated with higher gray matter volume. *Neurology*, **2019**, 92, e1331-e1343	6.5	39
67	Comparison of MRI based and PET template based approaches in the quantitative analysis of amyloid imaging with PIB-PET. *NeuroImage*, **2013**, 70, 423-33	7.9	39
66	Imaging epigenetic regulation by histone deacetylases in the brain using PET/MRI with □F-FAHA. *NeuroImage*, **2013**, 64, 630-9	7.9	39
65	Validation of a tracer kinetic model for the quantification of 5-HT(2A) receptors in human brain with [(11)C]MDL 100,907. *Journal of Cerebral Blood Flow and Metabolism*, **2007**, 27, 161-72	7.3	39
64	18F-florbetapir PET in patients with frontotemporal dementia and Alzheimer disease. *Journal of Nuclear Medicine*, **2015**, 56, 386-91	8.9	36
63	Pre- and postsynaptic serotonergic differences in males with extreme levels of impulsive aggression without callous unemotional traits: a positron emission tomography study using (11)C-DASB and (11)C-MDL100907. *Biological Psychiatry*, **2012**, 72, 1004-11	7.9	35
62	Does inflammation precede tau aggregation in early Alzheimer disease? A PET study. *Neurobiology of Disease*, **2018**, 117, 211-216	7.5	34
61	Presynaptic 5-HT1A is related to 5-HTT receptor density in the human brain. *Neuropsychopharmacology*, **2011**, 36, 2258-65	8.7	34
60	Rank-shaping regularization of exponential spectral analysis for application to functional parametric mapping. *Physics in Medicine and Biology*, **2003**, 48, 3819-41	3.8	33
59	Can target-to-pons ratio be used as a reliable method for the analysis of [11C]PIB brain scans?. *NeuroImage*, **2012**, 60, 1716-23	7.9	32

58	Microglial activation, white matter tract damage, and disability in MS. *Neurology: Neuroimmunology and NeuroInflammation*, **2018**, 5, e443	9.1	31
57	Positron emission tomography imaging of the serotonin transporter in the pig brain using [11C](+)-McN5652 and S-([18F]fluoromethyl)-(+)-McN5652. *Synapse*, **2003**, 47, 143-51	2.4	30
56	Inflammation and vascular permeability correlate with growth in sporadic vestibular schwannoma. *Neuro-Oncology*, **2019**, 21, 314-325	1	29
55	Quantification of ligand PET studies using a reference region with a displaceable fraction: application to occupancy studies with [(11)C]-DASB as an example. *Journal of Cerebral Blood Flow and Metabolism*, **2012**, 32, 70-80	7.3	28
54	The EMIF-AD PreclinAD study: study design and baseline cohort overview. *Alzheimer's Research and Therapy*, **2018**, 10, 75	9	24
53	Strategies for the generation of parametric images of [11C]PIB with plasma input functions considering discriminations and reproducibility. *NeuroImage*, **2009**, 48, 329-38	7.9	21
52	Parametric mapping using spectral analysis for C-PBR28 PET reveals neuroinflammation in mild cognitive impairment subjects. *European Journal of Nuclear Medicine and Molecular Imaging*, **2018**, 45, 1432-1441	8.8	19
51	Simplified quantification of 5-HT2A receptors in the human brain with [11C]MDL 100,907 PET and non-invasive kinetic analyses. *NeuroImage*, **2010**, 50, 984-93	7.9	19
50	Brain Microglial Activation Increased in Glucocerebrosidase (GBA) Mutation Carriers without Parkinson's disease. *Movement Disorders*, **2021**, 36, 774-779	7	19
49	Age-dependent effects of severe traumatic brain injury on cerebral dopaminergic activity in newborn and juvenile pigs. *Journal of Neurotrauma*, **2004**, 21, 1076-89	5.4	17
48	Wavelet variance components in image space for spatiotemporal neuroimaging data. *NeuroImage*, **2005**, 25, 159-68	7.9	16
47	Test-retest reproducibility of quantitative binding measures of [C]Ro15-4513, a PET ligand for GABA receptors containing alpha5 subunits. *NeuroImage*, **2017**, 152, 270-282	7.9	15
46	Challenges of quantification of TSPO in the human brain. *Clinical and Translational Imaging*, **2015**, 3, 403-416	2	15
45	Preferred transport of O-(2-[18F]fluoroethyl)-D-tyrosine (D-FET) into the porcine brain. *Brain Research*, **2007**, 1147, 25-33	3.7	15
44	Resilience to cognitive impairment in the oldest-old: design of the EMIF-AD 90+ study. *BMC Geriatrics*, **2018**, 18, 289	4.1	15
43	Neuroinflammation as measured by positron emission tomography in patients with recent onset and established schizophrenia: implications for immune pathogenesis. *Molecular Psychiatry*, **2021**, 26, 5398-5406	15.1	14
42	Effect of hypoxia/hypercapnia on metabolism of 6-[(18)F]fluoro-L-DOPA in newborn piglets. *Brain Research*, **2002**, 934, 23-33	3.7	14
41	Assessing Inflammation in Acute Intracerebral Hemorrhage with PK11195 PET and Dynamic Contrast-Enhanced MRI. *Journal of Neuroimaging*, **2018**, 28, 158-161	2.8	12

40	Accurate markerless respiratory tracking for gated whole body PET using the Microsoft Kinect **2012**,		11
39	Brain inflammation and psoriasis: a [C]-(R)-PK11195 positron emission tomography study. *British Journal of Dermatology*, **2016**, 175, 1082-1084	4	11
38	Astrocyte reactivity with late-onset cognitive impairment assessed in vivo using C-BU99008 PET and its relationship with amyloid load. *Molecular Psychiatry*, **2021**,	15.1	11
37	A new perspective for advanced positron emission tomography-based molecular imaging in neurodegenerative proteinopathies. *Alzheimer's and Dementia*, **2019**, 15, 1081-1103	1.2	10
36	The effect of 18F-florbetapir dose reduction on region-based classification of cortical amyloid deposition. *European Journal of Nuclear Medicine and Molecular Imaging*, **2014**, 41, 2144-9	8.8	10
35	Comment on " In Vivo [F]GE-179 Brain Signal Does Not Show NMDA-Specific Modulation with Drug Challenges in Rodents and Nonhuman Primates". *ACS Chemical Neuroscience*, **2019**, 10, 768-772	5.7	10
34	Dual-phase [18F]florbetapir in frontotemporal dementia. *European Journal of Nuclear Medicine and Molecular Imaging*, **2019**, 46, 304-311	8.8	9
33	In vivo quantification of glial activation in minipigs overexpressing human □synuclein. *Synapse*, **2018**, 72, e22060	2.4	9
32	[18F]Florbetapir positron emission tomography: identification of muscle amyloid in inclusion body myositis and differentiation from polymyositis. *Annals of the Rheumatic Diseases*, **2019**, 78, 657-662	2.4	9
31	Kinetic modeling and parameter estimation of TSPO PET imaging in the human brain. *European Journal of Nuclear Medicine and Molecular Imaging*, **2021**, 1	8.8	9
30	**2011**,		8
29	Technical aspects of amyloid imaging for Alzheimer□ disease. *Alzheimer's Research and Therapy*, **2011**, 3, 25	9	7
28	Performance of a modified supervised cluster algorithm for extracting reference region input functions from (R)-[11C]PK11195 brain PET studies **2008**,		7
27	Application of advanced brain positron emission tomography-based molecular imaging for a biological framework in neurodegenerative proteinopathies. *Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring*, **2019**, 11, 327-332	5.2	6
26	P-glycoprotein overactivity in epileptogenic developmental lesions measured in vivo using (R)-[C]verapamil PET. *Epilepsia*, **2020**, 61, 1472-1480	6.4	6
25	**2012**,		6
24	Developmental changes in the activities of aromatic amino acid decarboxylase and catechol-O-methyl transferase in the porcine brain: a positron emission tomography study. *Neuroscience Letters*, **2004**, 364, 159-63	3.3	6
23	Tau Aggregation Correlates with Amyloid Deposition in Both Mild Cognitive Impairment and Alzheimer□ Disease Subjects. *Journal of Alzheimer's Disease*, **2019**, 70, 455-465	4.3	4

22	Positron emission tomography to image cerebral neuroinflammation in ischaemic stroke: a pilot study. *Efficacy and Mechanism Evaluation*, **2020**, 7, 1-26	1.7	4
21	Tariquidar inhibition of P-glycoprotein activity in patients with temporal lobe epilepsy measured with PET and (R)-[C-11]Verapamil. *NeuroImage*, **2010**, 52, S148	7.9	3
20	Simplifying [F]GE-179 PET: are both arterial blood sampling and 90-min acquisitions essential?. *EJNMMI Research*, **2018**, 8, 46	3.6	3
19	P2-179: DOES CEREBRAL GLUCOSE METABOLISM AND BLOOD FLOW DISSOCIATE IN EARLY STAGES OF ALZHEIMER'S DISEASE? **2014**, 10, P536-P536		2
18	Towards improved test-retest reliability in quantitative ligand PET: [11C]Diprenorphine as an example. *Journal of Cerebral Blood Flow and Metabolism*, **2005**, 25, S665-S665	7.3	2
17	[O3-09-03]: MICROGLIAL ACTIVATION IS ASSOCIATED WITH HIGHER GREY MATTER DENSITY AND HIPPOCAMPAL VOLUME IN MCI SUBJECTS **2017**, 13, P921		1
16	**2012**,		1
15	Image space identification of a motion tracking tool in PET and PET/CT **2010**,		1
14	Parametric imaging of [11C]PIB studies using spectral analysis. *Journal of Cerebral Blood Flow and Metabolism*, **2005**, 25, S590-S590	7.3	1
13	Different patterns of PIB uptake in AD patients. *Journal of Cerebral Blood Flow and Metabolism*, **2005**, 25, S666-S666	7.3	1
12	Amyloid-PET-Positive Patient With bvFTD: Wrong Diagnosis, False Positive Scan, or Copathology?. *Neurology: Clinical Practice*, **2021**, 11, e952-e955	1.7	1
11	□pha 5 subunit-containing GABA receptors in temporal lobe epilepsy with normal MRI. *Brain Communications*, **2021**, 3, fcaa190	4.5	1
10	Resistance of brain glucose metabolism to thiopental-induced CNS depression in newborn piglets. *International Journal of Developmental Neuroscience*, **2013**, 31, 157-64	2.7	0
9	Decreased GABA-A Receptor Binding in Association With □Lactam Antibiotic Use. *Clinical Nuclear Medicine*, **2019**, 44, 981-982	1.7	0
8	[P1-23]: STRATEGIES TO DEVELOP PARAMETRIC MAPS FOR TSPO PET TRACER [11C]-PBR28 IN PATIENTS WITH MILD COGNITIVE IMPAIRMENT **2017**, 13, P288-P289		
7	[P1-24]: REGIONAL KINETIC MODELLING APPLICATION FOR TSPO PET TRACER [11C]PBR28 **2017**, 13, P289-P289		
6	[O3-09-06]: MICROGLIAL ACTIVATION IN ALZHEIMER'S DISEASE DETECTED BY NOVEL THIRD GENERATION TRANSLOCATOR PROTEIN TRACER FLUTRICICLAMIDE ([18F]GE180) **2017**, 13, P922		
5	Tracer Imaging **2012**, 215-247		

List of Publications

4 P1-001: Flutriciclamide ([18F]GE180) Pet: First in Human Pet Study of Novel in Vivo Marker of Human Translator Protein **2016**, 12, P397-P397

3 P4-343: Cerebral Brain Perfusion in Cognitively Normal Advanced Elderly (79-93 Years) Measured with Arterial Spin Labelling and [18F]Flutemetamol PET: A Cross Modality Comparison **2016**, 12, P1166-P1166

2 P1-475: NOVEL THIRD GENERATION MICROGLIAL MARKER FLUTRICICLAMIDE ([18F]GE180) IN ALZHEIMER'S DISEASE AND MILD COGNITIVE IMPAIRMENT **2018**, 14, P506-P506

1 O5-01-02: VOXEL-LEVEL INTERACTION BETWEEN NFT AND AMYLOID INFLUENCES/PREDICTS THE DECLINE RATE OF COGNITION IN PATIENTS WITH MILD COGNITIVE IMPAIRMENT **2018**, 14, P1636-P1637