

Rainer Hinz

List of Publications by Year in descending order

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Version: 2024-02-01

100
papers

4,513
citations

116194

36
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120465

65
g-index

108
all docs

108
docs citations

108
times ranked

7037
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Relationship between astrocyte reactivity, using novel 11C-BU99008 PET, and glucose metabolism, grey matter volume and amyloid load in cognitively impaired individuals. <i>Molecular Psychiatry</i> , 2022, 27, 2019-2029. | 4.1 | 19 |
| 2 | Quantitative kinetic modelling and mapping of cerebral glucose transport and metabolism using glucoCESL MRI. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2022, 42, 2066-2079. | 2.4 | 1 |
| 3 | Neuroinflammation as measured by positron emission tomography in patients with recent onset and established schizophrenia: implications for immune pathogenesis. <i>Molecular Psychiatry</i> , 2021, 26, 5398-5406. | 4.1 | 34 |
| 4 | Brain Microglial Activation Increased in Glucocerebrosidase (<i>GBA</i>) Mutation Carriers without Parkinson's disease. <i>Movement Disorders</i> , 2021, 36, 774-779. | 2.2 | 49 |
| 5 | Amyloid-PET Positive Patient With bvFTD. <i>Neurology: Clinical Practice</i> , 2021, 11, e952-e955. | 0.8 | 4 |
| 6 | Î±5 subunit-containing GABAA receptors in temporal lobe epilepsy with normal MRI. <i>Brain Communications</i> , 2021, 3, fcaa190. | 1.5 | 5 |
| 7 | Kinetic modeling and parameter estimation of TSPO PET imaging in the human brain. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2021, 49, 246-256. | 3.3 | 27 |
| 8 | Astrocyte reactivity with late-onset cognitive impairment assessed in vivo using 11C-BU99008 PET and its relationship with amyloid load. <i>Molecular Psychiatry</i> , 2021, 26, 5848-5855. | 4.1 | 43 |
| 9 | P-glycoprotein overactivity in epileptogenic developmental lesions measured in vivo using (R)-[11C]verapamil PET. <i>Epilepsia</i> , 2020, 61, 1472-1480. | 2.6 | 15 |
| 10 | Positron emission tomography to image cerebral neuroinflammation in ischaemic stroke: a pilot study. <i>Efficacy and Mechanism Evaluation</i> , 2020, 7, 1-26. | 0.9 | 5 |
| 11 | Tau Aggregation Correlates with Amyloid Deposition in Both Mild Cognitive Impairment and Alzheimer's Disease Subjects. <i>Journal of Alzheimer's Disease</i> , 2019, 70, 455-465. | 1.2 | 6 |
| 12 | A new perspective for advanced positron emission tomography-based molecular imaging in neurodegenerative proteinopathies. <i>Alzheimer's and Dementia</i> , 2019, 15, 1081-1103. | 0.4 | 16 |
| 13 | Application of advanced brain positron emission tomography-based molecular imaging for a biological framework in neurodegenerative proteinopathies. <i>Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , 2019, 11, 327-332. | 1.2 | 9 |
| 14 | Quantitative Diffusion Tensor Imaging (DTI) Analysis Reveals Different Infiltrative Patterns of Oligodendrogliomas and Astrocytomas in Peri-Tumour White Matter. <i>Neurosurgery</i> , 2019, 84, E273-E273. | 0.6 | 0 |
| 15 | Microglial activation in early Alzheimer trajectory is associated with higher gray matter volume. <i>Neurology</i> , 2019, 92, e1331-e1343. | 1.5 | 69 |
| 16 | Dual-phase [18F]florbetapir in frontotemporal dementia. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2019, 46, 304-311. | 3.3 | 18 |
| 17 | [18F]Florbetapir positron emission tomography: identification of muscle amyloid in inclusion body myositis and differentiation from polymyositis. <i>Annals of the Rheumatic Diseases</i> , 2019, 78, 657-662. | 0.5 | 24 |
| 18 | Decreased GABA-A Receptor Binding in Association With Î²-Lactam Antibiotic Use. <i>Clinical Nuclear Medicine</i> , 2019, 44, 981-982. | 0.7 | 2 |

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|----|--|-----|-----------|
| 19 | Inflammation and vascular permeability correlate with growth in sporadic vestibular schwannoma. <i>Neuro-Oncology</i> , 2019, 21, 314-325. | 0.6 | 59 |
| 20 | Comment on "In Vivo [¹⁸ F]GE-179 Brain Signal Does Not Show NMDA-Specific Modulation with Drug Challenges in Rodents and Nonhuman Primates". <i>ACS Chemical Neuroscience</i> , 2019, 10, 768-772. | 1.7 | 11 |
| 21 | Microglial activation, white matter tract damage, and disability in MS. <i>Neurology: Neuroimmunology and Neuroinflammation</i> , 2018, 5, e443. | 3.1 | 51 |
| 22 | Parametric mapping using spectral analysis for 11C-PBR28 PET reveals neuroinflammation in mild cognitive impairment subjects. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2018, 45, 1432-1441. | 3.3 | 22 |
| 23 | Assessing Inflammation in Acute Intracerebral Hemorrhage with PK11195 PET and Dynamic Contrast-Enhanced MRI. <i>Journal of Nuclear Medicine</i> , 2018, 28, 158-161. | | 15 |
| 24 | Elevated Translocator Protein in Anterior Cingulate in Major Depression and a Role for Inflammation in Suicidal Thinking: A Positron Emission Tomography Study. <i>Biological Psychiatry</i> , 2018, 83, 61-69. | 0.7 | 266 |
| 25 | P1475: NOVEL THIRD GENERATION MICROGLIAL MARKER FLUTRICICLAMIDE ([¹⁸ F]GE180) IN ALZHEIMER'S DISEASE AND MILD COGNITIVE IMPAIRMENT. <i>Alzheimer's and Dementia</i> , 2018, 14, P506. | 0.4 | 0 |
| 26 | Simplifying [¹⁸ F]GE-179 PET: are both arterial blood sampling and 90-min acquisitions essential?. <i>EJNMMI Research</i> , 2018, 8, 46. | 1.1 | 4 |
| 27 | Resilience to cognitive impairment in the oldest-old: design of the EMIF-AD 90+ study. <i>BMC Geriatrics</i> , 2018, 18, 289. | 1.1 | 25 |
| 28 | O501: VOXEL-LEVEL INTERACTION BETWEEN NFT AND AMYLOID INFLUENCES/PREDICTS THE DECLINE RATE OF COGNITION IN PATIENTS WITH MILD COGNITIVE IMPAIRMENT. <i>Alzheimer's and Dementia</i> , 2018, 14, P1636. | 0.4 | 0 |
| 29 | The EMIF-AD PreclinAD study: study design and baseline cohort overview. <i>Alzheimer's Research and Therapy</i> , 2018, 10, 75. | 3.0 | 48 |
| 30 | Microglial activation correlates in vivo with both tau and amyloid in Alzheimer's disease. <i>Brain</i> , 2018, 141, 2740-2754. | 3.7 | 143 |
| 31 | In vivo quantification of glial activation in minipigs overexpressing human α -synuclein. <i>Synapse</i> , 2018, 72, e22060. | 0.6 | 15 |
| 32 | Does inflammation precede tau aggregation in early Alzheimer's disease? A PET study. <i>Neurobiology of Disease</i> , 2018, 117, 211-216. | 2.1 | 46 |
| 33 | Microglial activation in normal-appearing brain regions of patients with cerebral glioma: a cross-sectional study. <i>Lancet</i> , 2017, 389, S92. | 6.3 | 1 |
| 34 | Brain inflammation accompanies amyloid in the majority of mild cognitive impairment cases due to Alzheimer's disease. <i>Brain</i> , 2017, 140, 2002-2011. | 3.7 | 147 |
| 35 | Test-retest reproducibility of quantitative binding measures of [¹¹ C]Ro15-4513, a PET ligand for GABA A receptors containing α 5 subunits. <i>NeuroImage</i> , 2017, 152, 270-282. | 2.1 | 17 |
| 36 | [P1475]: STRATEGIES TO DEVELOP PARAMETRIC MAPS FOR TSPO PET TRACER [¹¹ C]PBR28 IN PATIENTS WITH MILD COGNITIVE IMPAIRMENT. <i>Alzheimer's and Dementia</i> , 2017, 13, P288. | 0.4 | 0 |

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|----|--|-----|-----------|
| 37 | [P1â€“124]: REGIONAL KINETIC MODELLING APPLICATION FOR TSPO PET TRACER [11C]PBR28. Alzheimer's and Dementia, 2017, 13, P289. | 0.4 | 0 |
| 38 | [O3â€“09â€“03]: MICROGLIAL ACTIVATION IS ASSOCIATED WITH HIGHER GREY MATTER DENSITY AND HIPPOCAMPAL VOLUME IN MCI SUBJECTS. Alzheimer's and Dementia, 2017, 13, P921. | 0.4 | 1 |
| 39 | [O3â€“09â€“06]: MICROGLIAL ACTIVATION IN ALZHEIMER'S DISEASE DETECTED BY NOVEL THIRD GENERATION TRANSLOCATOR PROTEIN TRACER FLUTRICICLAMIDE ([18F]GE180). Alzheimer's and Dementia, 2017, 13, P922. | 0.4 | 0 |
| 40 | 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. | 1.3 | 58 |
| 41 | Brain inflammation and psoriasis: a [¹¹ C]-(R)-PK11195 positron emission tomography study. British Journal of Dermatology, 2016, 175, 1082-1084. | 1.4 | 14 |
| 42 | P1-001: Flutriciclamide ([18F]GE180) Pet: First in Human Pet Study of Novel in Vivo Marker of Human Translocator Protein. , 2016, 12, P397-P397. | | 0 |
| 43 | P4â€“343: Cerebral Brain Perfusion in Cognitively Normal Advanced Elderly (79â€“93 Years) Measured with Arterial Spin Labelling and [18F]Flutemetamol PET: A Cross Modality Comparison. Alzheimer's and Dementia, 2016, 12, P1166. | 0.4 | 0 |
| 44 | In vivo imaging of brain microglial activity in antipsychotic-free and medicated schizophrenia: a [11C](R)-PK11195 positron emission tomography study. Molecular Psychiatry, 2016, 21, 1672-1679. | 4.1 | 82 |
| 45 | 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. | 2.8 | 93 |
| 46 | Challenges of quantification of TSPO in the human brain. Clinical and Translational Imaging, 2015, 3, 403-416. | 1.1 | 16 |
| 47 | ¹⁸F-Florbetapir PET in Patients with Frontotemporal Dementia and Alzheimer Disease. Journal of Nuclear Medicine, 2015, 56, 386-391. | 2.8 | 41 |
| 48 | The 18-kDa Mitochondrial Translocator Protein in Human Gliomas: An ¹¹C-(<i>R</i>)PK11195 PET Imaging and Neuropathology Study. Journal of Nuclear Medicine, 2015, 56, 512-517. | 2.8 | 77 |
| 49 | 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, 2144-2149. | 3.3 | 11 |
| 50 | P2-179: DOES CEREBRAL GLUCOSE METABOLISM AND BLOOD FLOW DISSOCIATE IN EARLY STAGES OF ALZHEIMER'S DISEASE?. , 2014, 10, P536-P536. | | 2 |
| 51 | [11C]-(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, 1406-1419. | 3.3 | 55 |
| 52 | A European multicentre PET study of fibrillar amyloid in Alzheimerâ€™s disease. European Journal of Nuclear Medicine and Molecular Imaging, 2013, 40, 104-114. | 3.3 | 170 |
| 53 | Comparison of MRI based and PET template based approaches in the quantitative analysis of amyloid imaging with PIB-PET. NeuroImage, 2013, 70, 423-433. | 2.1 | 52 |
| 54 | Microglia, Amyloid, and Glucose Metabolism in Parkinsonâ€™s Disease with and without Dementia. Neuropsychopharmacology, 2013, 38, 938-949. | 2.8 | 202 |

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|----|--|-----|-----------|
| 55 | Resistance of brain glucose metabolism to thiopental-induced CNS depression in newborn piglets. <i>International Journal of Developmental Neuroscience</i> , 2013, 31, 157-164. | 0.7 | 4 |
| 56 | P-glycoprotein expression and function in patients with temporal lobe epilepsy: a case-control study. <i>Lancet Neurology</i> , The, 2013, 12, 777-785. | 4.9 | 155 |
| 57 | Imaging epigenetic regulation by histone deacetylases in the brain using PET/MRI with 18F-FAHA. <i>NeuroImage</i> , 2013, 64, 630-639. | 2.1 | 42 |
| 58 | A POSITRON EMISSION TOMOGRAPHY STUDY OF [18F]â€“FLORBETAPIR IN ALZHEIMER'S DISEASE AND FRONTOTEMPORAL DEMENTIA. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2013, 84, e2.205-e2. | 0.9 | 0 |
| 59 | Multiple target marker tracking for real-time, accurate, and robust rigid body motion tracking of the head for brain PET. , 2013, , . | | 1 |
| 60 | Quantification of Ligand PET Studies using a Reference Region with a Displaceable Fraction: Application to Occupancy Studies with [11C]-DASB as an Example. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2012, 32, 70-80. | 2.4 | 30 |
| 61 | Realtime markerless rigid body head motion tracking using the Microsoft Kinect. , 2012, , . | | 9 |
| 62 | Accurate markerless respiratory tracking for gated whole body PET using the Microsoft Kinect. , 2012, , . | | 16 |
| 63 | Optimization of Supervised Cluster Analysis for Extracting Reference Tissue Input Curves in (<i>R</i>)-[¹¹ C]PK11195 Brain PET Studies. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2012, 32, 1600-1608. | 2.4 | 120 |
| 64 | Optimization of high resolution PET iterative reconstruction with resolution modeling for image derived input function. , 2012, , . | | 1 |
| 65 | Pre- and Postsynaptic Serotonergic Differences in Males with Extreme Levels of Impulsive Aggression Without Callous Unemotional Traits: A Positron Emission Tomography Study Using 11C-DASB and 11C-MDL100907. <i>Biological Psychiatry</i> , 2012, 72, 1004-1011. | 0.7 | 41 |
| 66 | Can target-to-pons ratio be used as a reliable method for the analysis of [11C]PIB brain scans?. <i>NeuroImage</i> , 2012, 60, 1716-1723. | 2.1 | 36 |
| 67 | Technical aspects of amyloid imaging for Alzheimer's disease. <i>Alzheimer's Research and Therapy</i> , 2011, 3, 25. | 3.0 | 8 |
| 68 | Brain inflammation is induced by co-morbidities and risk factors for stroke. <i>Brain, Behavior, and Immunity</i> , 2011, 25, 1113-1122. | 2.0 | 173 |
| 69 | Diminished brain 5-HT transporter binding in major depression: a positron emission tomography study with [11C]DASB. <i>Psychopharmacology</i> , 2011, 213, 555-562. | 1.5 | 65 |
| 70 | The design and initial calibration of an optical tracking system using the Microsoft Kinect. , 2011, , . | | 10 |
| 71 | Detection and Quantification of Large-Vessel Inflammation with [¹¹ C]-(<i>R</i>)-PK11195 PET/CT. <i>Journal of Nuclear Medicine</i> , 2011, 52, 33-39. | 2.8 | 68 |
| 72 | Presynaptic 5-HT1A is Related to 5-HTT Receptor Density in the Human Brain. <i>Neuropsychopharmacology</i> , 2011, 36, 2258-2265. | 2.8 | 35 |

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|----|--|-----|-----------|
| 73 | Reproducibility of [¹¹ C]Choline-Positron Emission Tomography and Effect of Trastuzumab. <i>Clinical Cancer Research</i> , 2010, 16, 4236-4245. | 3.2 | 52 |
| 74 | Image space identification of a motion tracking tool in PET and PET/CT. , 2010, , . | | 1 |
| 75 | Tariquidar inhibition of P-glycoprotein activity in patients with temporal lobe epilepsy measured with PET and (R)-[¹¹ C]Verapamil. <i>NeuroImage</i> , 2010, 52, S148. | 2.1 | 3 |
| 76 | Quantification of PET studies using a displaceable reference: Application to occupancy studies with [¹¹ C]-DASB as an example. <i>NeuroImage</i> , 2010, 52, S195-S196. | 2.1 | 0 |
| 77 | Simplified quantification of 5-HT _{2A} receptors in the human brain with [¹¹ C]MDL 100,907 PET and non-invasive kinetic analyses. <i>NeuroImage</i> , 2010, 50, 984-993. | 2.1 | 21 |
| 78 | Brain serotonin transporter binding in former users of MDMA (â€˜ecstasyâ€™). <i>British Journal of Psychiatry</i> , 2009, 194, 355-359. | 1.7 | 45 |
| 79 | Strategies for the generation of parametric images of [¹¹ C]PIB with plasma input functions considering discriminations and reproducibility. <i>NeuroImage</i> , 2009, 48, 329-338. | 2.1 | 23 |
| 80 | Effects of Citalopram Infusion on the Serotonin Transporter Binding of [¹¹ C]DASB in Healthy Controls. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2008, 28, 1478-1490. | 2.4 | 89 |
| 81 | Microglia, amyloid, and cognition in Alzheimer's disease: An [¹¹ C](R)PK11195-PET and [¹¹ C]PIB-PET study. <i>Neurobiology of Disease</i> , 2008, 32, 412-419. | 2.1 | 448 |
| 82 | In how many kinetic classes can [¹¹ C](R)-PK11195 brain PET data be segmented?. , 2008, , . | | 0 |
| 83 | Performance of a modified supervised cluster algorithm for extracting reference region input functions from (R)-[¹¹ C]PK11195 brain PET studies. , 2008, , . | | 13 |
| 84 | Upregulation of opioid receptor binding following spontaneous epileptic seizures. <i>Brain</i> , 2007, 130, 1009-1016. | 3.7 | 101 |
| 85 | 5-HTT Binding in Recovered Depressed Patients and Healthy Volunteers: A Positron Emission Tomography Study With [¹¹ C]DASB. <i>American Journal of Psychiatry</i> , 2007, 164, 1858-1865. | 4.0 | 66 |
| 86 | Balancing bias, reliability, noise properties and the need for parametric maps in quantitative ligand PET: [¹¹ C]diprenorphine testâ€™retest data. <i>NeuroImage</i> , 2007, 38, 82-94. | 2.1 | 46 |
| 87 | Validation of a Tracer Kinetic Model for the Quantification of 5-HT _{2A} Receptors in Human Brain with [¹¹ C]MDL 100,907. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2007, 27, 161-172. | 2.4 | 46 |
| 88 | Preferred transport of O-(2-[¹⁸ F]fluoroethyl)-d-tyrosine (d-FET) into the porcine brain. <i>Brain Research</i> , 2007, 1147, 25-33. | 1.1 | 18 |
| 89 | Reference and target region modeling of [¹¹ C](R)-PK11195 brain studies. <i>Journal of Nuclear Medicine</i> , 2007, 48, 158-67. | 2.8 | 216 |
| 90 | Increased 5-HT _{2A} Receptor Binding in Euthymic, Medication-Free Patients Recovered From Depression: A Positron Emission Study With [¹¹ C]MDL 100,907. <i>American Journal of Psychiatry</i> , 2006, 163, 1580-1587. | 4.0 | 170 |

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|-----|--|-----|-----------|
| 91 | Wavelet variance components in image space for spatiotemporal neuroimaging data. <i>NeuroImage</i> , 2005, 25, 159-168. | 2.1 | 18 |
| 92 | Parametric imaging of [11C]PIB studies using spectral analysis. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005, 25, S590-S590. | 2.4 | 1 |
| 93 | Towards improved test-retest reliability in quantitative ligand PET: [11C]Diprenorphine as an example. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005, 25, S665-S665. | 2.4 | 2 |
| 94 | Different patterns of PIB uptake in AD patients. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005, 25, S666-S666. | 2.4 | 1 |
| 95 | Age-Dependent Effects of Severe Traumatic Brain Injury on Cerebral Dopaminergic Activity in Newborn and Juvenile Pigs. <i>Journal of Neurotrauma</i> , 2004, 21, 1076-1089. | 1.7 | 19 |
| 96 | Developmental changes in the activities of aromatic amino acid decarboxylase and catechol-O-methyl transferase in the porcine brain: A positron emission tomography study. <i>Neuroscience Letters</i> , 2004, 364, 159-163. | 1.0 | 6 |
| 97 | Positron emission tomography imaging of the serotonin transporter in the pig brain using [11C](+)-McN5652 and S-([18F]fluoromethyl)-(+)-McN5652. <i>Synapse</i> , 2003, 47, 143-151. | 0.6 | 32 |
| 98 | On the Undecidability among Kinetic Models: From Model Selection to Model Averaging. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2003, 23, 490-498. | 2.4 | 115 |
| 99 | Rank-shaping regularization of exponential spectral analysis for application to functional parametric mapping. <i>Physics in Medicine and Biology</i> , 2003, 48, 3819-3841. | 1.6 | 36 |
| 100 | Effect of hypoxia/hypercapnia on metabolism of 6-[18F]fluoro-l-DOPA in newborn piglets. <i>Brain Research</i> , 2002, 934, 23-33. | 1.1 | 14 |