Federico Edoardo Turkheimer

List of Publications by Year
in descending order

289 papers	17,826 citations	16451 64 h-index	17105 122 g-index

322 all docs	322 docs citations	322 times ranked	19094 citing authors

#	Article	IF	Citations
1	In-vivo measurement of activated microglia in dementia. Lancet, The, 2001, 358, 461-467.	13.7	983
2	In vivo imaging of microglial activation with [11C](R)-PK11195 PET in idiopathic Parkinson's disease. Neurobiology of Disease, 2006, 21, 404-412.	4.4	982
3	Inflammation after trauma: Microglial activation and traumatic brain injury. Annals of Neurology, 2011, 70, 374-383.	5.3	803
4	Evidence of widespread cerebral microglial activation in amyotrophic lateral sclerosis: an [11C](R)-PK11195 positron emission tomography study. Neurobiology of Disease, 2004, 15, 601-609.	4.4	630
5	Emergence of resting state networks in the preterm human brain. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 20015-20020.	7.1	461
6	Microglia, amyloid, and cognition in Alzheimer's disease: An [11C](R)PK11195-PET and [11C]PIB-PET study. Neurobiology of Disease, 2008, 32, 412-419.	4.4	448
7	Homological scaffolds of brain functional networks. Journal of the Royal Society Interface, 2014, 11, 20140873.	3.4	415
8	Microglial Activity in People at Ultra High Risk of Psychosis and in Schizophrenia: An [¹¹C]PBR28 PET Brain Imaging Study. American Journal of Psychiatry, 2016, 173, 44-52.	7.2	382
9	Dopamine Synthesis Capacity Before Onset of Psychosis: A Prospective [¹⁸F]-DOPA PET Imaging Study. American Journal of Psychiatry, 2011, 168, 1311-1317.	7.2	321
10	Progressive increase in striatal dopamine synthesis capacity as patients develop psychosis: a PET study. Molecular Psychiatry, 2011, 16, 885-886.	7.9	255
11	Redefining the functional organization of working memory processes within human lateral prefrontal cortex. European Journal of Neuroscience, 1999, 11, 567-574.	2.6	252
12	Converging Language Streams in the Human Temporal Lobe. Journal of Neuroscience, 2006, 26, 7328-7336.	3.6	242
13	Reference and target region modeling of [11C]-(R)-PK11195 brain studies. Journal of Nuclear Medicine, 2007, 48, 158-67.	5.0	216
14	Brain microglia in psychiatric disorders. Lancet Psychiatry,the, 2017, 4, 563-572.	7.4	208
15	Microglia, Amyloid, and Glucose Metabolism in Parkinsonâ€™s Disease with and without Dementia. Neuropsychopharmacology, 2013, 38, 938-949.	5.4	202
16	Serotonergic mechanisms responsible for levodopa-induced dyskinesias in Parkinsonâ€™s disease patients. Journal of Clinical Investigation, 2014, 124, 1340-1349.	8.2	202
17	Depressive symptoms in PD correlate with higher 5-HTT binding in raphe and limbic structures. Neurology, 2010, 75, 1920-1927.	1.1	188
18	The methodology of TSPO imaging with positron emission tomography. Biochemical Society Transactions, 2015, 43, 586-592.	3.4	186

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19	Positron Emission Tomography Compartmental Models: A Basis Pursuit Strategy for Kinetic Modeling. Journal of Cerebral Blood Flow and Metabolism, 2002, 22, 1425-1439.	4.3	181
20	A Test of the Transdiagnostic Dopamine Hypothesis of Psychosis Using Positron Emission Tomographic Imaging in Bipolar Affective Disorder and Schizophrenia. JAMA Psychiatry, 2017, 74, 1206.	11.0	178
21	Glutamate NMDA receptor dysregulation in Parkinsonâ€™s disease with dyskinesias. Brain, 2011, 134, 979-986.	7.6	177
22	Dynamic <scp>I</scp>maging of <scp>I</scp>ndividual <scp>R</scp>emyelination <scp>P</scp>rofiles in <scp>M</scp>ultiple <scp>S</scp>clerosis. Annals of Neurology, 2016, 79, 726-738.	5.3	174
23	Treatment-Resistant Schizophrenia Patients Show Elevated Anterior Cingulate Cortex Glutamate Compared to Treatment-Responsive. Schizophrenia Bulletin, 2016, 42, 744-752.	4.3	174
24	Traumatic brain injury impairs small-world topology. Neurology, 2013, 80, 1826-1833.	1.1	168
25	Minocycline 1â€year therapy in multipleâ€systemâ€atrophy: Effect on clinical symptoms and [¹¹C] (R)â€PK11195 PET (MEMSAâ€trial). Movement Disorders, 2010, 25, 97-107.	3.9	163
26	In vivo imaging of microglial activation with [11C](R)-PK11195 PET in progressive supranuclear palsy. Movement Disorders, 2006, 21, 89-93.	3.9	162
27	CSF1R inhibitor JNJ-40346527 attenuates microglial proliferation and neurodegeneration in P301S mice. Brain, 2019, 142, 3243-3264.	7.6	156
28	Speech production after stroke: The role of the right pars opercularis. Annals of Neurology, 2003, 54, 310-320.	5.3	154
29	Neuroinflammation in schizophrenia: meta-analysis ofin vivomicroglial imaging studies. Psychological Medicine, 2019, 49, 2186-2196.	4.5	151
30	Increased PK11195 PET binding in the cortex of patients with MS correlates with disability. Neurology, 2012, 79, 523-530.	1.1	150
31	Midbrain dopamine function in schizophrenia and depression: a post-mortem and positron emission tomographic imaging study. Brain, 2013, 136, 3242-3251.	7.6	146
32	A New Model for Prediction of Drug Distribution in Tumor and Normal Tissues: Pharmacokinetics of Temozolomide in Glioma Patients. Cancer Research, 2009, 69, 120-127.	0.9	142
33	The role of opioids in restless legs syndrome: an [11C]diprenorphine PET study. Brain, 2005, 128, 906-917.	7.6	140
34	Increased central microglial activation associated with peripheral cytokine levels in premanifest Huntington's disease gene carriers. Neurobiology of Disease, 2015, 83, 115-121.	4.4	133
35	A Common System for the Comprehension and Production of Narrative Speech. Journal of Neuroscience, 2007, 27, 11455-11464.	3.6	130
36	Self-similar correlation function in brain resting-state functional magnetic resonance imaging. Journal of the Royal Society Interface, 2011, 8, 472-479.	3.4	130

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37	In vivo imaging of microglial activation with [11C](R)-PK11195 PET in corticobasal degeneration. Movement Disorders, 2004, 19, 1221-1226.	3.9	128
38	A physiological change in the homotopic cortex following left posterior temporal lobe infarction. Annals of Neurology, 2002, 51, 553-558.	5.3	122
39	Optimization of Supervised Cluster Analysis for Extracting Reference Tissue Input Curves in (R)-[¹¹C]PK11195 Brain PET Studies. Journal of Cerebral Blood Flow and Metabolism, 2012, 32, 1600-1608.	4.3	120
40	Determinants of treatment response in first-episode psychosis: an 18F-DOPA PET study. Molecular Psychiatry, 2019, 24, 1502-1512.	7.9	120
41	Reproducibility of ¹⁸F-FDG and 3â€²-Deoxy-3â€²-¹⁸F-Fluorothymidine PET Tumor Volume Measurements. Journal of Nuclear Medicine, 2010, 51, 1368-1376.	5.0	118
42	Multiresolution Analysis of Emission Tomography Images in the Wavelet Domain. Journal of Cerebral Blood Flow and Metabolism, 1999, 19, 1189-1208.	4.3	116
43	Amyloid pathology and axonal injury after brain trauma. Neurology, 2016, 86, 821-828.	1.1	116
44	On the Undecidability among Kinetic Models: From Model Selection to Model Averaging. Journal of Cerebral Blood Flow and Metabolism, 2003, 23, 490-498.	4.3	115
45	Kinetic Modeling without Accounting for the Vascular Component Impairs the Quantification of [¹¹C]PBR28 Brain PET Data. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 1060-1069.	4.3	112
46	Quantification of the Specific Translocator Protein Signal of ¹⁸F-PBR111 in Healthy Humans: A Genetic Polymorphism Effect on In Vivo Binding. Journal of Nuclear Medicine, 2013, 54, 1915-1923.	5.0	105
47	Correction of head movement on PET studies: comparison of methods. Journal of Nuclear Medicine, 2006, 47, 1936-44.	5.0	102
48	Volumes, spatial extents and a probabilistic atlas of the human basal ganglia and thalamus. NeuroImage, 2007, 38, 261-270.	4.2	94
49	Study of direct and indirect parametric estimation methods of linear models in dynamic positron emission tomography. Medical Physics, 2008, 35, 1299-1309.	3.0	91
50	The relationship between cortical glutamate and striatal dopamine in first-episode psychosis: a cross-sectional multimodal PET and magnetic resonance spectroscopy imaging study. Lancet Psychiatry,the, 2018, 5, 816-823.	7.4	89
51	Importance of Quantification for the Analysis of PET Data in Oncology: Review of Current Methods and Trends for the Future. Molecular Imaging and Biology, 2012, 14, 131-146.	2.6	86
52	Novel Reference Region Model Reveals Increased Microglial and Reduced Vascular Binding of ¹¹C-(R)-PK11195 in Patients with Alzheimer's Disease. Journal of Nuclear Medicine, 2008, 49, 1249-1256.	5.0	81
53	Functional and structural synergy for resolution recovery and partial volume correction in brain PET. NeuroImage, 2009, 44, 340-348.	4.2	81
54	[18F]-3â€²Deoxy-3â€²-Fluorothymidine Positron Emission Tomography and Breast Cancer Response to Docetaxel. Clinical Cancer Research, 2011, 17, 7664-7672.	7.0	81

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55	A survey of approaches for direct parametric image reconstruction in emission tomography. Medical Physics, 2008, 35, 3963-3971.	3.0	80
56	Quantification of intra-tumour cell proliferation heterogeneity using imaging descriptors of 18F fluorothymidine-positron emission tomography. Physics in Medicine and Biology, 2013, 58, 187-203.	3.0	80
57	Carbon-11-Pittsburgh compound B positron emission tomography imaging of amyloid deposition in presenilin 1 mutation carriers. Brain, 2011, 134, 293-300.	7.6	79
58	Positron Emission Tomography Compartmental Models: A Basis Pursuit Strategy for Kinetic Modeling. Journal of Cerebral Blood Flow and Metabolism, 2002, , 1425-1439.	4.3	79
59	Obstructive sleep apnoea and Alzheimerâ€™s disease: In search of shared pathomechanisms. Neuroscience and Biobehavioral Reviews, 2018, 86, 142-149.	6.1	78
60	The 18-kDa Mitochondrial Translocator Protein in Human Gliomas: An ¹¹C-(R)PK11195 PET Imaging and Neuropathology Study. Journal of Nuclear Medicine, 2015, 56, 512-517.	5.0	77
61	Increased PK11195-PET binding in normal-appearing white matter in clinically isolated syndrome. Brain, 2015, 138, 110-119.	7.6	76
62	A role for TSPO in mitochondrial Ca2+ homeostasis and redox stress signaling. Cell Death and Disease, 2017, 8, e2896-e2896.	6.3	75
63	Identifying improved TSPO PET imaging probes through biomathematics: The impact of multiple TSPO binding sites in vivo. NeuroImage, 2012, 60, 902-910.	4.2	73
64	The Use of Spectral Analysis to Determine Regional Cerebral Glucose Utilization with Positron Emission Tomography and [¹⁸F]Fluorodeoxyglucose: Theory, Implementation, and Optimization Procedures. Journal of Cerebral Blood Flow and Metabolism, 1994, 14, 406-422.	4.3	72
65	Mesolimbic Dopamine Function Is Related to Salience Network Connectivity: An Integrative Positron Emission Tomography and Magnetic Resonance Study. Biological Psychiatry, 2019, 85, 368-378.	1.3	72
66	Estimation of the Number of â€œTrueâ€•Null Hypotheses in Multivariate Analysis of Neuroimaging Data. NeuroImage, 2001, 13, 920-930.	4.2	71
67	PET imaging of putative microglial activation in individuals at ultra-high risk for psychosis, recently diagnosed and chronically ill with schizophrenia. Translational Psychiatry, 2017, 7, e1225-e1225.	4.8	70
68	Cerebral Energy Metabolism and the Brainâ€™s Functional Network Architecture: An Integrative Review. Journal of Cerebral Blood Flow and Metabolism, 2013, 33, 1347-1354.	4.3	69
69	Classification of schizophrenic patients and healthy controls using [18F] fluorodopa PET imaging. Schizophrenia Research, 2008, 106, 148-155.	2.0	66
70	Microglia activation in multiple sclerosis black holes predicts outcome in progressive patients: An in vivo [(11)C](R)-PK11195-PET pilot study. Neurobiology of Disease, 2014, 65, 203-210.	4.4	66
71	A linear wavelet filter for parametric imaging with dynamic pet. IEEE Transactions on Medical Imaging, 2003, 22, 289-301.	8.9	65
72	Dynamic ¹¹C-PiB PET Shows Cerebrospinal Fluid Flow Alterations in Alzheimer Disease and Multiple Sclerosis. Journal of Nuclear Medicine, 2019, 60, 1452-1460.	5.0	64

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73	Measuring endogenous changes in serotonergic neurotransmission in humans: a [11C]CUMI-101 PET challenge study. Molecular Psychiatry, 2012, 17, 1254-1260.	7.9	63
74	MENGA: A New Comprehensive Tool for the Integration of Neuroimaging Data and the Allen Human Brain Transcriptome Atlas. PLoS ONE, 2016, 11, e0148744.	2.5	62
75	Chromosomal profiles of gene expression in Huntington's disease. Brain, 2008, 131, 381-388.	7.6	60
76	Increased frontoparietal integration after stroke and cognitive recovery. Annals of Neurology, 2010, 68, 753-756.	5.3	60
77	TSPO expression in brain tumours: is TSPO a target for brain tumour imaging?. Clinical and Translational Imaging, 2016, 4, 145-156.	2.1	57
78	Acute induction of anxiety in humans by delta-9-tetrahydrocannabinol related to amygdalar cannabinoid-1 (CB1) receptors. Scientific Reports, 2017, 7, 15025.	3.3	57
79	Towards a transcriptome definition of microglial cells. Neurogenetics, 2004, 5, 95-108.	1.4	55
80	[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.	6.4	55
81	Modeling Dynamic PET-SPECT Studies in the Wavelet Domain. Journal of Cerebral Blood Flow and Metabolism, 2000, 20, 879-893.	4.3	54
82	The Effects of Antipsychotic Treatment on Presynaptic Dopamine Synthesis Capacity in First-Episode Psychosis: A Positron Emission Tomography Study. Biological Psychiatry, 2019, 85, 79-87.	1.3	54
83	PET image reconstruction using multi-parametric anato-functional priors. Physics in Medicine and Biology, 2017, 62, 5975-6007.	3.0	54
84	Insights into Brain Architectures from the Homological Scaffolds of Functional Connectivity Networks. Frontiers in Systems Neuroscience, 2016, 10, 85.	2.5	53
85	Regulation of dopaminergic function: an [18F]-DOPA PET apomorphine challenge study in humans.. Translational Psychiatry, 2017, 7, e1027-e1027.	4.8	53
86	GABA-A receptor differences in schizophrenia: a positron emission tomography study using [11C]Ro154513. Molecular Psychiatry, 2021, 26, 2616-2625.	7.9	53
87	Quantification of [¹¹C]PIB PET for Imaging Myelin in the Human Brain: A Testâ€”Retest Reproducibility Study in High-Resolution Research Tomography. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 1771-1782.	4.3	52
88	Serotonergic dysregulation is linked to sleep problems in Parkinson's disease. NeuroImage: Clinical, 2018, 18, 630-637.	2.7	52
89	Neuropathological changes in the substantia nigra in schizophrenia but not depression. European Archives of Psychiatry and Clinical Neuroscience, 2014, 264, 285-296.	3.2	51
90	Kinetic modelling of [¹¹C]PBR28 for 18â€‰kDa translocator protein PET data: A validation study of vascular modelling in the brain using XBD173 and tissue analysis. Journal of Cerebral Blood Flow and Metabolism, 2018, 38, 1227-1242.	4.3	51

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91	Characterization of the anterior cingulate's role in the at-risk mental state using graph theory. NeuroImage, 2011, 56, 1531-1539.	4.2	50
92	In Vivo Availability of Cannabinoid 1 Receptor Levels in Patients With First-Episode Psychosis. JAMA Psychiatry, 2019, 76, 1074.	11.0	50
93	The relationship between antipsychotic D2 occupancy and change in frontal metabolism and working memory. Psychopharmacology, 2013, 227, 221-229.	3.1	49
94	The brain's code and its canonical computational motifs. From sensory cortex to the default mode network: A multi-scale model of brain function in health and disease. Neuroscience and Biobehavioral Reviews, 2015, 55, 211-222.	6.1	48
95	Brain TSPO imaging and gray matter volume in schizophrenia patients and in people at ultra high risk of psychosis: An [11C]PBR28 study. Schizophrenia Research, 2018, 195, 206-214.	2.0	48
96	A [¹¹C]Ro15 4513 PET study suggests that alcohol dependence in man is associated with reduced Î±5 benzodiazepine receptors in limbic regions. Journal of Psychopharmacology, 2012, 26, 273-281.	4.0	47
97	Balancing bias, reliability, noise properties and the need for parametric maps in quantitative ligand PET: [11C]diprenorphine testâ€“retest data. NeuroImage, 2007, 38, 82-94.	4.2	46
98	PET Image Denoising Using a Synergistic Multiresolution Analysis of Structural (MRI/CT) and Functional Datasets. Journal of Nuclear Medicine, 2008, 49, 657-666.	5.0	46
99	5-Hydroxytryptamine1A Receptor Occupancy by Novel Full Antagonist 2-[4-[4-(7-Chloro-2,3-dihydro-1,4-benzdioxyn-5-yl)-1-piperazinyl]butyl]-1,2-benzisothiazol-3-(2H)-one-1,1-dioxide: A [11C][O-methyl-3H]-N-(2-(4-(2-methoxyphenyl)-1-piperazinyl)ethyl)-N-(2-pyridinyl)cyclohexanecarboxamide Trihydrochloride (WAY-100635) Positron Emission Tomography Study in Humans. Journal of Pharmacology and Experimental Therapeutics, 2002, 301, 1144-1150.	2.5	44
100	The Predictive Power of Brain mRNA Mappings for in vivo Protein Density: A Positron Emission Tomography Correlation Study. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 827-835.	4.3	44
101	Dopamine Function in Cigarette Smokers: An [18F]-DOPA PET Study. Neuropsychopharmacology, 2014, 39, 2397-2404.	5.4	43
102	Acute increases in synaptic GABA detectable in the living human brain: A [11C]Ro15-4513 PET study. NeuroImage, 2014, 99, 158-165.	4.2	42
103	Covariance statistics and network analysis of brain PET imaging studies. Scientific Reports, 2019, 9, 2496.	3.3	42
104	Increased serum peripheral C-reactive protein is associated with reduced brain barriers permeability of TSPO radioligands in healthy volunteers and depressed patients: implications for inflammation and depression. Brain, Behavior, and Immunity, 2021, 91, 487-497.	4.1	42
105	GABA _A receptor availability is not altered in adults with autism spectrum disorder or in mouse models. Science Translational Medicine, 2018, 10, .	12.4	41
106	Widespread microglial activation in multiple system atrophy. Movement Disorders, 2019, 34, 564-568.	3.9	41
107	Quantification of receptor-ligand binding with [18F]fluciclatide in metastatic breast cancer patients. European Journal of Nuclear Medicine and Molecular Imaging, 2011, 38, 2186-2197.	6.4	40
108	Functional brain networks before the onset of psychosis: A prospective fMRI study with graph theoretical analysis. NeuroImage: Clinical, 2012, 1, 91-98.	2.7	40

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109	Receptor-Enriched Analysis of functional connectivity by targets (REACT): AÂnovel, multimodal analytical approach informed by PET to study the pharmacodynamic response of the brain under MDMA. NeuroImage, 2019, 195, 252-260.	4.2	40
110	On the Undecidability Among Kinetic Models: From Model Selection to Model Averaging. Journal of Cerebral Blood Flow and Metabolism, 2003, , 490-498.	4.3	40
111	The effect of ageing on grey and white matter reductions in schizophrenia. Schizophrenia Research, 2009, 112, 7-13.	2.0	39
112	Evaluation of a 3D local multiresolution algorithm for the correction of partial volume effects in positron emission tomography. Medical Physics, 2011, 38, 4920-4933.	3.0	39
113	A Complex Systems Perspective on Neuroimaging Studies of Behavior and Its Disorders. Neuroscientist, 2022, 28, 382-399.	3.5	39
114	Estimation of Component and Parameter Distributions in Spectral Analysis. Journal of Cerebral Blood Flow and Metabolism, 1998, 18, 1211-1222.	4.3	38
115	Multi-resolution Bayesian regression in PET dynamic studies using wavelets. NeuroImage, 2006, 32, 111-121.	4.2	38
116	A Graphical Method to Compare the in vivo Binding Potential of PET Radioligands in the Absence of a Reference Region: Application to [¹¹C]PBR28 and [¹⁸F]PBR111 for TSPO Imaging. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 1162-1168.	4.3	38
117	Generalization of endothelial modelling of TSPO PET imaging: Considerations on tracer affinities. Journal of Cerebral Blood Flow and Metabolism, 2019, 39, 874-885.	4.3	38
118	[11C]Flumazenil PET in Temporal Lobe Epilepsy: Do We Need an Arterial Input Function or Kinetic Modeling?. Journal of Cerebral Blood Flow and Metabolism, 2008, 28, 207-216.	4.3	37
119	Rank-shaping regularization of exponential spectral analysis for application to functional parametric mapping. Physics in Medicine and Biology, 2003, 48, 3819-3841.	3.0	36
120	A systematic comparison of kinetic modelling methods generating parametric maps for [11C]-(R)-PK11195. NeuroImage, 2007, 36, 28-37.	4.2	36
121	Executive Functions and Prefrontal Cortex: A Matter of Persistence?. Frontiers in Systems Neuroscience, 2011, 5, 3.	2.5	36
122	Can target-to-pons ratio be used as a reliable method for the analysis of [11C]PIB brain scans?. NeuroImage, 2012, 60, 1716-1723.	4.2	36
123	The validity of 18F-GE180 as a TSPO imaging agent. European Journal of Nuclear Medicine and Molecular Imaging, 2019, 46, 1205-1207.	6.4	36
124	Choroid plexus enlargement is associated with neuroinflammation and reduction of blood brain barrier permeability in depression. NeuroImage: Clinical, 2022, 33, 102926.	2.7	36
125	Presynaptic 5-HT1A is Related to 5-HTT Receptor Density in the Human Brain. Neuropsychopharmacology, 2011, 36, 2258-2265.	5.4	35
126	Statistical Modeling of Positron Emission Tomography Images in Wavelet Space. Journal of Cerebral Blood Flow and Metabolism, 2000, 20, 1610-1618.	4.3	34

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127	A potential biomarker for treatment stratification in psychosis: evaluation of an [18F] FDOPA PET imaging approach. Neuropsychopharmacology, 2021, 46, 1122-1132.	5.4	34
128	Characterisation of the Contribution of the GABA-Benzodiazepine Î±1 Receptor Subtype to [¹¹C]Ro15-4513 PET Images. Journal of Cerebral Blood Flow and Metabolism, 2012, 32, 731-744.	4.3	33
129	Decreased regional gray matter volume in Sâ€™ allele carriers of the 5-HTTLPR triallelic polymorphism. Molecular Psychiatry, 2011, 16, 472-473.	7.9	32
130	In Vivo Mapping of Vascular Inflammation Using the Translocator Protein Tracer ¹⁸ F-FEDAA1106. Molecular Imaging, 2014, 13, 7290.2014.00014.	1.4	32
131	Validation of an automatic reference region extraction for the quantification of [¹⁸F]DPA-714 in dynamic brain PET studies. Journal of Cerebral Blood Flow and Metabolism, 2018, 38, 333-346.	4.3	32
132	Pseudoreference Regions for Glial Imaging with ¹¹C-PBR28: Investigation in 2 Clinical Cohorts. Journal of Nuclear Medicine, 2018, 59, 107-114.	5.0	32
133	Chromosomal patterns of gene expression from microarray data: methodology, validation and clinical relevance in gliomas. BMC Bioinformatics, 2006, 7, 526.	2.6	31
134	Quantification of Ligand PET Studies using a Reference Region with a Displaceable Fraction: Application to Occupancy Studies with [11C]-DASB as an Example. Journal of Cerebral Blood Flow and Metabolism, 2012, 32, 70-80.	4.3	30
135	Nature or Nurture? Determining the Heritability of Human Striatal Dopamine Function: an [18F]-DOPA PET Study. Neuropsychopharmacology, 2013, 38, 485-491.	5.4	30
136	Increased cerebral blood flow after single dose of antipsychotics in healthy volunteers depends on dopamine D2 receptor density profiles. NeuroImage, 2019, 188, 774-784.	4.2	30
137	An automated machine learning approach to predict brain age from cortical anatomical measures. Human Brain Mapping, 2020, 41, 3555-3566.	3.6	29
138	Predicting Brain Occupancy from Plasma Levels using PET: Superiority of Combining Pharmacokinetics with Pharmacodynamics while Modeling the Relationship. Journal of Cerebral Blood Flow and Metabolism, 2012, 32, 759-768.	4.3	28
139	Spectral Analysis of Dynamic PET Studies: A Review of 20 Years of Method Developments and Applications. Computational and Mathematical Methods in Medicine, 2016, 2016, 1-15.	1.3	28
140	Anatomy of 18F-GE180, a failed radioligand for the TSPO protein. European Journal of Nuclear Medicine and Molecular Imaging, 2020, 47, 2233-2236.	6.4	28
141	Imaging transcriptomics: Convergent cellular, transcriptomic, and molecular neuroimaging signatures in the healthy adult human brain. Cell Reports, 2021, 37, 110173.	6.4	28
142	Kinetic filtering of [¹⁸F]Fluorothymidine in positron emission tomography studies. Physics in Medicine and Biology, 2010, 55, 695-709.	3.0	27
143	Kinetic modeling and parameter estimation of TSPO PET imaging in the human brain. European Journal of Nuclear Medicine and Molecular Imaging, 2021, 49, 246-256.	6.4	27
144	Truth, lies or self-deception? Striatal D2/3 receptor availability predicts individual differences in social conformity. NeuroImage, 2010, 53, 777-781.	4.2	26

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145	Effects of Antipsychotic Drugs: Cross Talk Between the Nervous and Innate Immune System. CNS Drugs, 2020, 34, 1229-1251.	5.9	26
146	Microglia in Culture: What Genes Do They Express?. Developmental Neuroscience, 2004, 26, 30-37.	2.0	25
147	Fractal analysis of MRI data for the characterization of patients with schizophrenia and bipolar disorder. Physics in Medicine and Biology, 2015, 60, 1697-1716.	3.0	25
148	Test-retest analysis of a non-invasive method of quantifying [11C]-PBR28 binding in Alzheimerâ€™s disease. EJNMMI Research, 2016, 6, 72.	2.5	25
149	Cerebral serotonin transporter measurements with [¹¹C]DASB: A review on acquisition and preprocessing across 21 PET centres. Journal of Cerebral Blood Flow and Metabolism, 2019, 39, 210-222.	4.3	25
150	Quantification of subendocardial and subepicardial blood flow using 15O-labeled water and PET: experimental validation. Journal of Nuclear Medicine, 2006, 47, 163-72.	5.0	25
151	The pandemic brain: Neuroinflammation in non-infected individuals during the COVID-19 pandemic. Brain, Behavior, and Immunity, 2022, 102, 89-97.	4.1	25
152	Investigating expectation and reward in human opioid addiction with [¹¹ <scp>C</scp>]raclopride <scp>PET</scp>. Addiction Biology, 2014, 19, 1032-1040.	2.6	24
153	Imaging Synaptic Density: The Next Holy Grail of Neuroscience?. Frontiers in Neuroscience, 2022, 16, 796129.	2.8	24
154	The lack of expression of the peripheral benzodiazepine receptor characterises microglial response in anaplastic astrocytomas. Journal of Neuro-Oncology, 2007, 85, 95-103.	2.9	23
155	Strategies for the generation of parametric images of [11C]PIB with plasma input functions considering discriminations and reproducibility. NeuroImage, 2009, 48, 329-338.	4.2	23
156	Spatial Dependencies between Large-Scale Brain Networks. PLoS ONE, 2014, 9, e98500.	2.5	23
157	A Variational Bayesian inference method for parametric imaging of PET data. NeuroImage, 2017, 150, 136-149.	4.2	23
158	Conflicting emergences. Weak vs. strong emergence for the modelling of brain function. Neuroscience and Biobehavioral Reviews, 2019, 99, 3-10.	6.1	23
159	The relationship between grey matter volume and striatal dopamine function in psychosis: a multimodal 18F-DOPA PET and voxel-based morphometry study. Molecular Psychiatry, 2021, 26, 1332-1345.	7.9	23
160	Assessment of infarct size by positron emission tomography and [18F]2-fluoro-2-deoxy-D-glucose: a new absolute threshold technique. European Journal of Nuclear Medicine and Molecular Imaging, 2002, 29, 203-215.	6.4	22
161	Parametric mapping using spectral analysis for 11C-PBR28 PET reveals neuroinflammation in mild cognitive impairment subjects. European Journal of Nuclear Medicine and Molecular Imaging, 2018, 45, 1432-1441.	6.4	22
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