

Roger N Gunn

List of Publications by Year in descending order

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247
papers

19,268
citations

15504

65
h-index

12946

131
g-index

272
all docs

272
docs citations

272
times ranked

15156
citing authors

#	ARTICLE	IF	CITATIONS
1	Consensus Nomenclature for in vivo Imaging of Reversibly Binding Radioligands. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2007, 27, 1533-1539.	4.3	1,840
2	Evidence for striatal dopamine release during a video game. <i>Nature</i> , 1998, 393, 266-268.	27.8	1,079
3	Parametric Imaging of Ligand-Receptor Binding in PET Using a Simplified Reference Region Model. <i>NeuroImage</i> , 1997, 6, 279-287.	4.2	998
4	In-vivo measurement of activated microglia in dementia. <i>Lancet, The</i> , 2001, 358, 461-467.	13.7	983
5	Dopamine release from nigral transplants visualized in vivo in a Parkinson's patient. <i>Nature Neuroscience</i> , 1999, 2, 1137-1140.	14.8	663
6	An 18-kDa Translocator Protein (TSPO) Polymorphism Explains Differences in Binding Affinity of the PET Radioligand PBR28. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2012, 32, 1-5.	4.3	642
7	Brain Serotonin1A Receptor Binding Measured by Positron Emission Tomography With [11C]WAY-100635. <i>Archives of General Psychiatry</i> , 2000, 57, 174.	12.3	597
8	Positron Emission Tomography Compartmental Models. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2001, 21, 635-652.	4.3	470
9	Imaging dopamine receptors in humans with [11C]-(+)-PHNO: Dissection of D3 signal and anatomy. <i>NeuroImage</i> , 2011, 54, 264-277.	4.2	359
10	Mixed-Affinity Binding in Humans with 18-kDa Translocator Protein Ligands. <i>Journal of Nuclear Medicine</i> , 2011, 52, 24-32.	5.0	330
11	Connectivity-Based Functional Analysis of Dopamine Release in the Striatum Using Diffusion-Weighted MRI and Positron Emission Tomography. <i>Cerebral Cortex</i> , 2014, 24, 1165-1177.	2.9	276
12	Tracer Kinetic Modeling of the 5-HT1A Receptor Ligand [carbonyl-11C]WAY-100635 for PET. <i>NeuroImage</i> , 1998, 8, 426-440.	4.2	267
13	Positron emission tomography molecular imaging for drug development. <i>British Journal of Clinical Pharmacology</i> , 2012, 73, 175-186.	2.4	263
14	Modeling Sensitization to Stimulants in Humans. <i>Archives of General Psychiatry</i> , 2006, 63, 1386-95.	12.3	255
15	Measuring Drug Occupancy in the Absence of a Reference Region: The Lassen Plot Re-Visited. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2010, 30, 46-50.	4.3	231
16	Dopamine Transmission in the Human Striatum during Monetary Reward Tasks. <i>Journal of Neuroscience</i> , 2004, 24, 4105-4112.	3.6	210
17	Pharmacological constraints associated with positron emission tomographic scanning of small laboratory animals. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 1998, 25, 173-176.	6.4	198
18	Huntington's disease progression. <i>Brain</i> , 1999, 122, 2353-2363.	7.6	193

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19	Two Binding Sites for [³ H]PBR28 in Human Brain: Implications for TSPO PET Imaging of Neuroinflammation. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2010, 30, 1608-1618.	4.3	187
20	Positron Emission Tomography Compartmental Models: A Basis Pursuit Strategy for Kinetic Modeling. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2002, 22, 1425-1439.	4.3	181
21	Assessment of Spatial Normalization of PET Ligand Images Using Ligand-Specific Templates. <i>NeuroImage</i> , 1999, 9, 545-553.	4.2	165
22	Positron Emission Tomography Partial Volume Correction: Estimation and Algorithms. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2002, 22, 1019-1034.	4.3	161
23	In vivo visualization of activated glia by [¹¹ C] (R)-PK11195-PET following herpes encephalitis reveals projected neuronal damage beyond the primary focal lesion. <i>Brain</i> , 2001, 124, 2014-2027.	7.6	153
24	Within-Subject Comparison of [¹¹ C]-(+)-PHNO and [¹¹ C]raclopride Sensitivity to Acute Amphetamine Challenge in Healthy Humans. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2012, 32, 127-136.	4.3	150
25	Synaptic density marker SV2A is reduced in schizophrenia patients and unaffected by antipsychotics in rats. <i>Nature Communications</i> , 2020, 11, 246.	12.8	148
26	Minocycline reduces chronic microglial activation after brain trauma but increases neurodegeneration. <i>Brain</i> , 2018, 141, 459-471.	7.6	143
27	Imaging Dopamine D3 Receptors in the Human Brain with Positron Emission Tomography, [¹¹ C]PHNO, and a Selective D3 Receptor Antagonist. <i>Biological Psychiatry</i> , 2010, 68, 392-399.	1.3	140
28	Neuroinflammation in treated HIV-positive individuals. <i>Neurology</i> , 2016, 86, 1425-1432.	1.1	136
29	A Database of [¹¹ C]WAY-100635 Binding to 5-HT1A Receptors in Normal Male Volunteers: Normative Data and Relationship to Methodological, Demographic, Physiological, and Behavioral Variables. <i>NeuroImage</i> , 2002, 15, 620-632.	4.2	133
30	Positron emission tomography imaging of amphetamine-induced dopamine release in the human cortex: A comparative evaluation of the high affinity dopamine D _{2/3} radiotracers [¹¹ C]FLB 457 and [¹¹ C]fallypride. <i>Synapse</i> , 2009, 63, 447-461.	1.2	127
31	In vivo quantification of regional dopamine D ₃ receptor binding potential of (+)-PHNO: Studies in non-human primates and transgenic mice. <i>Synapse</i> , 2009, 63, 782-793.	1.2	127
32	Reduced dopamine D1 receptor binding in the ventral striatum of cigarette smokers. <i>Synapse</i> , 2001, 42, 48-53.	1.2	118
33	Glucagon increases energy expenditure independently of brown adipose tissue activation in humans. <i>Diabetes, Obesity and Metabolism</i> , 2016, 18, 72-81.	4.4	118
34	Determination of [¹¹ C]PBR28 Binding Potential <i>in vivo</i> : A First Human TSPO Blocking Study. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014, 34, 989-994.	4.3	117
35	Long-term trans-synaptic glial responses in the human thalamus after peripheral nerve injury. <i>NeuroReport</i> , 2001, 12, 3439-3442.	1.2	108
36	Toward an improved prediction of human <i>in vivo</i> brain penetration. <i>Xenobiotica</i> , 2008, 38, 1518-1535.	1.1	105

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37	Quantification of the Specific Translocator Protein Signal of ¹⁸ F-PBR111 in Healthy Humans: A Genetic Polymorphism Effect on In Vivo Binding. <i>Journal of Nuclear Medicine</i> , 2013, 54, 1915-1923.	5.0	105
38	Endogenous Opioid Release in the Human Brain Reward System Induced by Acute Amphetamine Administration. <i>Biological Psychiatry</i> , 2012, 72, 371-377.	1.3	104
39	Pittsburgh Compound B (11C-PIB) and Fluorodeoxyglucose (18 F-FDG) PET in Patients With Alzheimer Disease, Mild Cognitive Impairment, and Healthy Controls. <i>Journal of Geriatric Psychiatry and Neurology</i> , 2010, 23, 185-198.	2.3	103
40	Hippocampal Neuroinflammation, Functional Connectivity, and Depressive Symptoms in Multiple Sclerosis. <i>Biological Psychiatry</i> , 2016, 80, 62-72.	1.3	103
41	Loss of phosphodiesterase 10A expression is associated with progression and severity in Parkinson's disease. <i>Brain</i> , 2015, 138, 3003-3015.	7.6	100
42	Blunted Endogenous Opioid Release Following an Oral Amphetamine Challenge in Pathological Gamblers. <i>Neuropsychopharmacology</i> , 2016, 41, 1742-1750.	5.4	96
43	Characterisation of the Appearance of Radioactive Metabolites in Monkey and Human Plasma from the 5-HT1A Receptor Radioligand, [¹¹ C]WAY-100635: Explanation of High Signal Contrast in PET and an Aid to Biomathematical Modelling. <i>Nuclear Medicine and Biology</i> , 1998, 25, 215-223.	0.6	91
44	Altered PDE10A expression detectable early before symptomatic onset in Huntington's disease. <i>Brain</i> , 2015, 138, 3016-3029.	7.6	90
45	PET-SORTEO: A Monte Carlo-Based Simulator With High Count Rate Capabilities. <i>IEEE Transactions on Nuclear Science</i> , 2004, 51, 46-52.	2.0	89
46	Pharmacological differentiation of opioid receptor antagonists by molecular and functional imaging of target occupancy and food reward-related brain activation in humans. <i>Molecular Psychiatry</i> , 2011, 16, 826-835.	7.9	89
47	Decreasing Amphetamine-Induced Dopamine Release by Acute Phenylalanine/Tyrosine Depletion: A PET/[¹¹ C]Raclopride Study in Healthy Men. <i>Neuropsychopharmacology</i> , 2004, 29, 427-432.	5.4	87
48	Amphetamine induced endogenous opioid release in the human brain detected with [¹¹ C]carfentanil PET: replication in an independent cohort. <i>International Journal of Neuropsychopharmacology</i> , 2014, 17, 2069-2074.	2.1	85
49	Kinetic Modeling of ¹¹ C-SB207145 Binding to 5-HT ₄ Receptors in the Human Brain In Vivo. <i>Journal of Nuclear Medicine</i> , 2009, 50, 900-908.	5.0	84
50	In Vivo Assessment of Brain White Matter Inflammation in Multiple Sclerosis with ¹⁸ F-PBR111 PET. <i>Journal of Nuclear Medicine</i> , 2014, 55, 1112-1118.	5.0	82
51	Pindolol Augmentation of Selective Serotonin Reuptake Inhibitors: PET Evidence That the Dose Used in Clinical Trials Is Too Low. <i>American Journal of Psychiatry</i> , 2001, 158, 2080-2082.	7.2	80
52	Comparison of four ¹¹ C-labeled PET ligands to quantify translocator protein 18kDa (TSPO) in human brain: (R)-PK11195, PBR28, DPA-713, and ER176-based on recent publications that measured specific-to-non-displaceable ratios. <i>EJNMMI Research</i> , 2017, 7, 84.	2.5	80
53	Positron Emission Tomography Compartmental Models: A Basis Pursuit Strategy for Kinetic Modeling. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2002, , 1425-1439.	4.3	79
54	A Statistical Method for the Analysis of Positron Emission Tomography Neuroreceptor Ligand Data. <i>NeuroImage</i> , 2000, 12, 245-256.	4.2	78

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55	The Simplified Reference Tissue Model: Model Assumption Violations and Their Impact on Binding Potential. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015, 35, 304-311.	4.3	77
56	Neuroinflammation and its relationship to changes in brain volume and white matter lesions in multiple sclerosis. <i>Brain</i> , 2017, 140, 2927-2938.	7.6	75
57	Affinity and selectivity of [¹¹ C]α-PHO for the D3 and D2 receptors in the rhesus monkey brain in vivo. <i>Synapse</i> , 2012, 66, 489-500.	1.2	74
58	Identifying improved TSPO PET imaging probes through biomathematics: The impact of multiple TSPO binding sites in vivo. <i>NeuroImage</i> , 2012, 60, 902-910.	4.2	73
59	Imidazoline 2 binding sites reflecting astroglia pathology in Parkinson's disease: an in vivo ¹¹ C-BU99008 PET study. <i>Brain</i> , 2019, 142, 3116-3128.	7.6	73
60	β-blocker Binding to Human 5-HT1A Receptors in vivo and in vitro Implications for Antidepressant Therapy. <i>Neuropsychopharmacology</i> , 2000, 23, 285-293.	5.4	70
61	Kinetic analysis of the translocator protein positron emission tomography ligand [18F]GE-180 in the human brain. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2016, 43, 2201-2210.	6.4	70
62	Serotonergic pathology and disease burden in the premotor and motor phase of A53T α-synuclein parkinsonism: a cross-sectional study. <i>Lancet Neurology</i> , The, 2019, 18, 748-759.	10.2	70
63	Estimation of serotonin transporter parameters with ¹¹ C-DASB in healthy humans: reproducibility and comparison of methods. <i>Journal of Nuclear Medicine</i> , 2006, 47, 815-26.	5.0	69
64	A Biomathematical Modeling Approach to Central Nervous System Radioligand Discovery and Development. <i>Journal of Nuclear Medicine</i> , 2009, 50, 1715-1723.	5.0	68
65	Evaluation of ¹¹ C-GSK189254 as a Novel Radioligand for the H3 Receptor in Humans Using PET. <i>Journal of Nuclear Medicine</i> , 2010, 51, 1021-1029.	5.0	68
66	2-[¹¹ C]Thymidine Positron Emission Tomography as an Indicator of Thymidylate Synthase Inhibition in Patients Treated With AG337. <i>Journal of the National Cancer Institute</i> , 2003, 95, 675-682.	6.3	67
67	PET Tau and Amyloid-β Burden in Mild Alzheimer's Disease: Divergent Relationship with Age, Cognition, and Cerebrospinal Fluid Biomarkers. <i>Journal of Alzheimer's Disease</i> , 2017, 60, 283-293.	2.6	67
68	Drug action at the 5-HT1A receptor in vivo: autoreceptor and postsynaptic receptor occupancy examined with PET and [carbonyl- ¹¹ C]WAY-100635. <i>Nuclear Medicine and Biology</i> , 2000, 27, 509-513.	0.6	63
69	Orbitofrontal Connectivity with Resting-State Networks Is Associated with Midbrain Dopamine D3 Receptor Availability. <i>Cerebral Cortex</i> , 2012, 22, 2784-2793.	2.9	62
70	Quantitative imaging of protein targets in the human brain with PET. <i>Physics in Medicine and Biology</i> , 2015, 60, R363-R411.	3.0	61
71	Evaluation of ¹¹ C-BU99008, a PET Ligand for the Imidazoline ₂ Binding Site in Human Brain. <i>Journal of Nuclear Medicine</i> , 2018, 59, 1597-1602.	5.0	61
72	Assessment of proliferation in vivo using 2-[(¹¹ C)thymidine positron emission tomography in advanced intra-abdominal malignancies. <i>Cancer Research</i> , 2002, 62, 5698-702.	0.9	60

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73	Prediction of Repeat-Dose Occupancy from Single-Dose Data: Characterisation of the Relationship between Plasma Pharmacokinetics and Brain Target Occupancy. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2011, 31, 944-952.	4.3	59
74	¹¹ C-PBR28 and ¹⁸ F-PBR111 Detect White Matter Inflammatory Heterogeneity in Multiple Sclerosis. <i>Journal of Nuclear Medicine</i> , 2017, 58, 1477-1482.	5.0	57
75	Decreased hippocampal translocator protein (18 kDa) expression in alcohol dependence: a [¹¹ C]PBR28 PET study. <i>Translational Psychiatry</i> , 2017, 7, e996-e996.	4.8	56
76	In vivo detection of cerebral tau pathology in long-term survivors of traumatic brain injury. <i>Science Translational Medicine</i> , 2019, 11, .	12.4	56
77	Quantification of Lung PET Images: Challenges and Opportunities. <i>Journal of Nuclear Medicine</i> , 2017, 58, 201-207.	5.0	55
78	Modeling Dynamic PET-SPECT Studies in the Wavelet Domain. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2000, 20, 879-893.	4.3	54
79	Analyses of [¹⁸ F]altanserin bolus injection PET data. II: Consideration of radiolabeled metabolites in humans. <i>Synapse</i> , 2001, 41, 11-21.	1.2	54
80	PET Parametric Imaging: Past, Present, and Future. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2020, 4, 663-675.	3.7	54
81	Radiosynthesis and Characterization of ¹¹ C-GSK215083 as a PET Radioligand for the 5-HT6 Receptor. <i>Journal of Nuclear Medicine</i> , 2012, 53, 295-303.	5.0	53
82	Combining PET Biodistribution and Equilibrium Dialysis Assays to Assess the Free Brain Concentration and BBB Transport of CNS Drugs. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2012, 32, 874-883.	4.3	53
83	In Vivo Imaging of Cerebral Dopamine D3 Receptors in Alcoholism. <i>Neuropsychopharmacology</i> , 2014, 39, 1703-1712.	5.4	53
84	Characterization of 3 PET Tracers for Quantification of Mitochondrial and Synaptic Function in Healthy Human Brain: ¹⁸ F-BCPP-EF, ¹¹ C-SA-4503, and ¹¹ C-UCB-J. <i>Journal of Nuclear Medicine</i> , 2020, 61, 96-103.	5.0	53
85	¹¹ C-DPA-713 has much greater specific binding to translocator protein 18 kDa (TSPO) in human brain than ¹¹ C-(R)-PK11195. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2018, 38, 393-403.	4.3	51
86	Thermal Imaging Is a Noninvasive Alternative to PET/CT for Measurement of Brown Adipose Tissue Activity in Humans. <i>Journal of Nuclear Medicine</i> , 2018, 59, 516-522.	5.0	51
87	Phosphodiesterase 10A PET Radioligand Development Program: From Pig to Human. <i>Journal of Nuclear Medicine</i> , 2014, 55, 595-601.	5.0	50
88	Relationship between neuromelanin and dopamine terminals within the Parkinson's nigrostriatal system. <i>Brain</i> , 2019, 142, 2023-2036.	7.6	48
89	Mitochondrial Complex 1, Sigma 1, and Synaptic Vesicle ² A in Early Drug-Naive Parkinson's Disease. <i>Movement Disorders</i> , 2020, 35, 1416-1427.	3.9	48
90	Guidelines for the content and format of PET brain data in publications and archives: A consensus paper. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020, 40, 1576-1585.	4.3	47

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91	Quantitative analysis of [carbonyl- ¹¹ C]WAY-100635 PET studies. <i>Nuclear Medicine and Biology</i> , 2000, 27, 477-482.	0.6	46
92	Kinetic modelling of [¹²³ I]CNS 1261 a potential SPET tracer for the NMDA receptor. <i>Nuclear Medicine and Biology</i> , 2003, 30, 441-454.	0.6	46
93	Translational characterization of [¹¹ C]GSK931145, a PET ligand for the glycine transporter type 1. <i>Synapse</i> , 2011, 65, 1319-1332.	1.2	46
94	Translocator Protein as an Imaging Marker of Macrophage and Stromal Activation in Rheumatoid Arthritis Pannus. <i>Journal of Nuclear Medicine</i> , 2018, 59, 1125-1132.	5.0	46
95	Benzodiazepine Site Pharmacokinetic/Pharmacodynamic Quantification in Man: Direct Measurement of Drug Occupancy and Effects on the Human Brain In Vivo. <i>Neuropharmacology</i> , 1996, 35, 1483-1491.	4.1	45
96	5-Hydroxytryptamine 1A Receptor Occupancy by Novel Full Antagonist 2-[4-[4-(7-Chloro-2,3-dihydro-1,4-benzodioxin-5-yl)-1-piperazinyl]butyl]-1,2-benzisothiazol-3-(2H)-one-1,1-dioxide: A [11C][O-methyl- ³ H]-N-(2-(4-(2-methoxyphenyl)-1-piperazinyl)ethyl)-N-(2-pyridinyl)cyclohexanecarboxamide Trihydrochloride (WAY-100635) Positron Emission Tomography Study in Humans. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2002, 301, 1144-1150.	2.5	44
97	Spatiotemporal Distribution of ¹²⁵ I-Amyloid in Alzheimer Disease Is the Result of Heterogeneous Regional Carrying Capacities. <i>Journal of Nuclear Medicine</i> , 2018, 59, 822-827.	5.0	44
98	Pindolol occupancy of 5-HT1A receptors measured in vivo using small animal positron emission tomography with carbon-11 labeled WAY 100635. , 2000, 36, 330-341.		43
99	Clinical quantification of the integrin $\alpha_5\beta_1$ by [¹⁸ F]FB-A20FMDV2 positron emission tomography in healthy and fibrotic human lung (PETAL Study). <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2020, 47, 967-979.	6.4	43
100	Astrocyte reactivity with late-onset cognitive impairment assessed in vivo using ¹¹ C-BU99008 PET and its relationship with amyloid load. <i>Molecular Psychiatry</i> , 2021, 26, 5848-5855.	7.9	43
101	A procedure for generating locally identifiable reparameterisations of unidentifiable non-linear systems by the similarity transformation approach. <i>Mathematical Biosciences</i> , 1998, 148, 21-41.	1.9	42
102	¹¹ C-GSK189254: A Selective Radioligand for In Vivo Central Nervous System Imaging of Histamine H3 Receptors by PET. <i>Journal of Nuclear Medicine</i> , 2009, 50, 2064-2072.	5.0	42
103	Radiosynthesis and in vivo evaluation of [¹¹ C]MP-10 as a positron emission tomography radioligand for phosphodiesterase 10A. <i>Nuclear Medicine and Biology</i> , 2011, 38, 875-884.	0.6	42
104	Gait in Mild Alzheimer's Disease: Feasibility of Multi-Center Measurement in the Clinic and Home with Body-Worn Sensors: A Pilot Study. <i>Journal of Alzheimer's Disease</i> , 2018, 63, 331-341.	2.6	42
105	Optimal design of pulsed arterial spin labeling MRI experiments. <i>Magnetic Resonance in Medicine</i> , 2008, 59, 826-834.	3.0	41
106	Voxel-Based Analysis of ¹¹ C-PIB Scans for Diagnosing Alzheimer's Disease. <i>Journal of Nuclear Medicine</i> , 2008, 49, 1262-1269.	5.0	41
107	In Vivo Binding of Antipsychotics to D3 and D2 Receptors: A PET Study in Baboons with [¹¹ C]-(+)-PHNO. <i>Neuropsychopharmacology</i> , 2011, 36, 887-895.	5.4	41
108	Evaluation of EMD 128 130 occupancy of the 5-HT1A and the D2 receptor: a human PET study with [¹¹ C]WAY-100635 and [¹¹ C]raclopride. <i>Journal of Psychopharmacology</i> , 2002, 16, 195-199.	4.0	40

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109	Amyloid Load: A More Sensitive Biomarker for Amyloid Imaging. <i>Journal of Nuclear Medicine</i> , 2019, 60, 536-540.	5.0	40
110	A Graphical Method to Compare the <i>in vivo</i> Binding Potential of PET Radioligands in the Absence of a Reference Region: Application to [¹¹ C]PBR28 and [¹⁸ F]PBR111 for TSPO Imaging. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014, 34, 1162-1168.	4.3	38
111	Brain lesion segmentation through image synthesis and outlier detection. <i>NeuroImage: Clinical</i> , 2017, 16, 643-658.	2.7	38
112	Imaging in Central Nervous System Drug Discovery. <i>Seminars in Nuclear Medicine</i> , 2017, 47, 89-98.	4.6	38
113	PDE10A and ADCY5 mutations linked to molecular and microstructural basal ganglia pathology. <i>Movement Disorders</i> , 2018, 33, 1961-1965.	3.9	38
114	Loss of extra-striatal phosphodiesterase 10A expression in early premanifest Huntington's disease gene carriers. <i>Journal of the Neurological Sciences</i> , 2016, 368, 243-248.	0.6	37
115	Rank-shaping regularization of exponential spectral analysis for application to functional parametric mapping. <i>Physics in Medicine and Biology</i> , 2003, 48, 3819-3841.	3.0	36
116	Markov Random Field Models for Segmentation of PET Images. <i>Lecture Notes in Computer Science</i> , 2001, , 468-474.	1.3	36
117	PET studies in drug development: Methodological considerations. <i>Drug Discovery Today: Technologies</i> , 2005, 2, 311-315.	4.0	34
118	Serotonin release measured in the human brain: a PET study with [¹¹ C]CIMBI-36 and d-amphetamine challenge. <i>Neuropsychopharmacology</i> , 2020, 45, 804-810.	5.4	34
119	Tau pathology in early Alzheimer's disease is linked to selective disruptions in neurophysiological network dynamics. <i>Neurobiology of Aging</i> , 2020, 92, 141-152.	3.1	34
120	Preferential 5-HT1A Autoreceptor Occupancy by Pindolol is Attenuated in Depressed Patients: Effect of Treatment or an Endophenotype of Depression?. <i>Neuropsychopharmacology</i> , 2004, 29, 1688-1698.	5.4	33
121	Within-subject comparison of striatal D2 receptor occupancy measurements using [¹²³ I]IBZM SPECT and [¹¹ C]Raclopride PET. <i>NeuroImage</i> , 2009, 46, 447-458.	4.2	33
122	Identification and evaluation of [¹¹ C]GSK931145 as a novel ligand for imaging the type 1 glycine transporter with positron emission tomography. <i>Synapse</i> , 2010, 64, 542-549.	1.2	33
123	Mathematical modelling of [¹¹ C]-(+)-PHNO human competition studies. <i>NeuroImage</i> , 2013, 68, 119-132.	4.2	33
124	Phosphodiesterase 10A in Schizophrenia: A PET Study Using [¹¹ C]IMA107. <i>American Journal of Psychiatry</i> , 2016, 173, 714-721.	7.2	33
125	Quantification in positron emission tomography for research in pharmacology and drug development. <i>Nuclear Medicine Communications</i> , 2004, 25, 643-646.	1.1	32
126	Non-invasive imaging in experimental medicine for drug development. <i>Current Opinion in Pharmacology</i> , 2011, 11, 501-507.	3.5	32

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127	Unexpectedly high affinity of a novel histamine H_3 receptor antagonist, GSK239512, <i>in vivo</i> in human brain, determined using PET. <i>British Journal of Pharmacology</i> , 2014, 171, 1241-1249.	5.4	32
128	Confirmation of Specific Binding of the 18-kDa Translocator Protein (TSPO) Radioligand [18F]GE-180: a Blocking Study Using XBD173 in Multiple Sclerosis Normal Appearing White and Grey Matter. <i>Molecular Imaging and Biology</i> , 2019, 21, 935-944.	2.6	32
129	The PET radioligand [carbonyl-(11)C]desmethyl-WAY-100635 binds to 5-HT(1A) receptors and provides a higher radioactive signal than [carbonyl-(11)C]WAY-100635 in the human brain. <i>Journal of Nuclear Medicine</i> , 2002, 43, 292-303.	5.0	32
130	A bolus/infusion paradigm for the novel NMDA receptor SPET tracer [123i]CNS 1261. <i>Nuclear Medicine and Biology</i> , 2004, 31, 155-164.	0.6	30
131	Behaviour of [11C]R(-) and [11C]S(+)-rolipram <i>in vitro</i> and <i>in vivo</i> , and their use as PET radiotracers for the quantitative assay of PDE4. <i>Synapse</i> , 2005, 55, 270-279.	1.2	30
132	Loss of phosphodiesterase 4 in Parkinson disease. <i>Neurology</i> , 2017, 89, 586-593.	1.1	30
133	Non-invasive measurement of left ventricular volumes and function by gated positron emission tomography. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 1996, 23, 1594-1602.	2.1	29
134	Adaptive-Optimal Design in PET Occupancy Studies. <i>Clinical Pharmacology and Therapeutics</i> , 2010, 87, 563-571.	4.7	29
135	Characterization of <i>in vivo</i> pharmacological properties and sensitivity to endogenous serotonin of [¹¹ C] P943: A positron emission tomography study in <i>Papio anubis</i> . <i>Synapse</i> , 2011, 65, 1119-1127.	1.2	28
136	A pharmacokinetic PET study of NK1 receptor occupancy. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2012, 39, 226-235.	6.4	28
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