

Richard E Carson

List of Publications by Year in descending order

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396
papers

21,667
citations

10351

72
h-index

14156

128
g-index

424
all docs

424
docs citations

424
times ranked

16173
citing authors

#	ARTICLE	IF	CITATIONS
1	Consensus Nomenclature for in vivo Imaging of Reversibly Binding Radioligands. Journal of Cerebral Blood Flow and Metabolism, 2007, 27, 1533-1539.	2.4	1,840
2	Reduced prefrontal activity predicts exaggerated striatal dopaminergic function in schizophrenia. Nature Neuroscience, 2002, 5, 267-271.	7.1	603
3	Dissociated Pattern of Activity in Visual Cortices and Their Projections During Human Rapid Eye Movement Sleep. Science, 1998, 279, 91-95.	6.0	584
4	Linearized Reference Tissue Parametric Imaging Methods: Application to [¹¹ C]DASB Positron Emission Tomography Studies of the Serotonin Transporter in Human Brain. Journal of Cerebral Blood Flow and Metabolism, 2003, 23, 1096-1112.	2.4	574
5	Noise Reduction in the Simplified Reference Tissue Model for Neuroreceptor Functional Imaging. Journal of Cerebral Blood Flow and Metabolism, 2002, 22, 1440-1452.	2.4	353
6	Reduced Serotonin Type 1A Receptor Binding in Panic Disorder. Journal of Neuroscience, 2004, 24, 589-591.	1.7	350
7	Comparison of Bolus and Infusion Methods for Receptor Quantitation: Application to [¹⁸ F]Cyclofoxy and Positron Emission Tomography. Journal of Cerebral Blood Flow and Metabolism, 1993, 13, 24-42.	2.4	343
8	Imaging synaptic density in the living human brain. Science Translational Medicine, 2016, 8, 348ra96.	5.8	343
9	Caloric restriction increases neurotrophic factor levels and attenuates neurochemical and behavioral deficits in a primate model of Parkinson's disease. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 18171-18176.	3.3	334
10	Species-specific calls evoke asymmetric activity in the monkey's temporal poles. Nature, 2004, 427, 448-451.	13.7	324
11	Deficits in Prefrontal Cortical and Extrastriatal Dopamine Release in Schizophrenia. JAMA Psychiatry, 2015, 72, 316.	6.0	304
12	Assessing Synaptic Density in Alzheimer Disease With Synaptic Vesicle Glycoprotein 2A Positron Emission Tomographic Imaging. JAMA Neurology, 2018, 75, 1215.	4.5	304
13	Strategies to Improve Neuroreceptor Parameter Estimation by Linear Regression Analysis. Journal of Cerebral Blood Flow and Metabolism, 2002, 22, 1271-1281.	2.4	286
14	Lower synaptic density is associated with depression severity and network alterations. Nature Communications, 2019, 10, 1529.	5.8	277
15	Imaging robust microglial activation after lipopolysaccharide administration in humans with PET. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 12468-12473.	3.3	265
16	Long-Term Clinical Improvement in MPTP-Lesioned Primates after Gene Therapy with AAV-hAADC. Molecular Therapy, 2006, 14, 564-570.	3.7	249
17	Quantification of Amphetamine-Induced Changes in [¹¹ C]Raclopride Binding with Continuous Infusion. Journal of Cerebral Blood Flow and Metabolism, 1997, 17, 437-447.	2.4	237
18	Highly penetrative, drug-loaded nanocarriers improve treatment of glioblastoma. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 11751-11756.	3.3	222

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19	Clinically Relevant Doses of Methylphenidate Significantly Occupy Norepinephrine Transporters in Humans In Vivo. <i>Biological Psychiatry</i> , 2010, 68, 854-860.	0.7	201
20	Synthesis and Preclinical Evaluation of ¹¹ C-UCB-J as a PET Tracer for Imaging the Synaptic Vesicle Glycoprotein 2A in the Brain. <i>Journal of Nuclear Medicine</i> , 2016, 57, 777-784.	2.8	197
21	Kinetic Modeling of [¹¹ C]Raclopride: Combined PET-Microdialysis Studies. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1997, 17, 932-942.	2.4	183
22	The neuroinflammation marker translocator protein is not elevated in individuals with mild-to-moderate depression: A [¹¹ C]PBR28 PET study. <i>Brain, Behavior, and Immunity</i> , 2013, 33, 131-138.	2.0	180
23	Endotoxin-induced systemic inflammation activates microglia: [¹¹ C]PBR28 positron emission tomography in nonhuman primates. <i>NeuroImage</i> , 2012, 63, 232-239.	2.1	179
24	A Noninvasive Positron Computed Tomography Technique Using Oxygen-15-Labeled Water for the Evaluation of Neurobehavioral Task Batteries. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1985, 5, 70-78.	2.4	171
25	In vivo measurement of widespread synaptic loss in Alzheimer's disease with SV2A PET. <i>Alzheimer's and Dementia</i> , 2020, 16, 974-982.	0.4	170
26	The Functional Neuroanatomy of Tourette's Syndrome: An FDG-PET Study. I. Regional Changes in Cerebral Glucose Metabolism Differentiating Patients and Controls. <i>Neuropsychopharmacology</i> , 1993, 9, 277-291.	2.8	166
27	Widespread abnormality of the $\hat{1}^3$ -aminobutyric acid-ergic system in Tourette syndrome. <i>Brain</i> , 2012, 135, 1926-1936.	3.7	166
28	Imaging Neuroinflammation in Alzheimer's Disease with Radiolabeled Arachidonic Acid and PET. <i>Journal of Nuclear Medicine</i> , 2008, 49, 1414-1421.	2.8	158
29	Imaging incorporation of circulating docosahexaenoic acid into the human brain using positron emission tomography. <i>Journal of Lipid Research</i> , 2009, 50, 1259-1268.	2.0	156
30	Kinetic evaluation and test-retest reproducibility of [¹¹ C]UCB-J, a novel radioligand for positron emission tomography imaging of synaptic vesicle glycoprotein 2A in humans. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2018, 38, 2041-2052.	2.4	143
31	Dissociation of Object and Spatial Vision in Human Extrastriate Cortex: Age-Related Changes in Activation of Regional Cerebral Blood Flow Measured with [¹⁵ O]Water and Positron Emission Tomography. <i>Journal of Cognitive Neuroscience</i> , 1992, 4, 23-34.	1.1	140
32	Rapid Changes in Cannabinoid 1 Receptor Availability in Cannabis-Dependent Male Subjects After Abstinence From Cannabis. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2016, 1, 60-67.	1.1	135
33	Brivaracetam, a selective high-affinity synaptic vesicle protein 2A (SV2A) ligand with preclinical evidence of high brain permeability and fast onset of action. <i>Epilepsia</i> , 2016, 57, 201-209.	2.6	130
34	Examination of Blood-Brain Barrier Permeability in Dementia of the Alzheimer Type with [⁶⁸ Ga]EDTA and Positron Emission Tomography. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1987, 7, 1-8.	2.4	129
35	Tomographic mapping of human cerebral metabolism: Sensory deprivation. <i>Annals of Neurology</i> , 1982, 12, 435-444.	2.8	127
36	Measurement of Local Blood Flow and Distribution Volume with Short-Lived Isotopes: A General Input Technique. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1982, 2, 99-108.	2.4	123

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37	Toward an evolutionary perspective on conceptual representation: Species-specific calls activate visual and affective processing systems in the macaque. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 17516-17521.	3.3	118
38	Association of Posttraumatic Stress Disorder With Reduced In Vivo Norepinephrine Transporter Availability in the Locus Coeruleus. <i>JAMA Psychiatry</i> , 2013, 70, 1199.	6.0	116
39	Development of Fluorine-18-Labeled 5-HT1A Antagonists. <i>Journal of Medicinal Chemistry</i> , 1999, 42, 1576-1586.	2.9	112
40	PET imaging of the effects of age and cocaine on the norepinephrine transporter in the human brain using (S,S)-[¹¹ C]O-methylreboxetine and HRRT. <i>Synapse</i> , 2010, 64, 30-38.	0.6	112
41	Synaptic Changes in Parkinson Disease Assessed with in vivo Imaging. <i>Annals of Neurology</i> , 2020, 87, 329-338.	2.8	112
42	Noise Reduction in the Simplified Reference Tissue Model for Neuroreceptor Functional Imaging. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2002, , 1440-1452.	2.4	110
43	In Vivo Imaging of Endogenous Pancreatic β -Cell Mass in Healthy and Type 1 Diabetic Subjects Using ¹⁸ F-Fluoropropyl-Dihydrotrabenazine and PET. <i>Journal of Nuclear Medicine</i> , 2012, 53, 908-916.	2.8	108
44	Altered metabotropic glutamate receptor 5 markers in PTSD: In vivo and postmortem evidence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 8390-8395.	3.3	107
45	Weighted Integration Method for Local Cerebral Blood Flow Measurements with Positron Emission Tomography. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1986, 6, 245-258.	2.4	106
46	Reduced Muscarinic Type 2 Receptor Binding in Subjects With Bipolar Disorder. <i>Archives of General Psychiatry</i> , 2006, 63, 741.	13.8	106
47	Activation of cerebral blood flow during a visuoperceptual task in patients with Alzheimer-type dementia. <i>Neurobiology of Aging</i> , 1993, 14, 35-44.	1.5	103
48	Altered Cerebral β -Aminobutyric Acid Type A Benzodiazepine Receptor Binding in Panic Disorder Determined by [¹¹ C]Flumazenil Positron Emission Tomography. <i>Archives of General Psychiatry</i> , 2008, 65, 1166.	13.8	103
49	Increased Nanoparticle Delivery to Brain Tumors by Autocatalytic Priming for Improved Treatment and Imaging. <i>ACS Nano</i> , 2016, 10, 4209-4218.	7.3	103
50	Preferential binding to dopamine D3 over D2 receptors by cariprazine in patients with schizophrenia using PET with the D3/D2 receptor ligand [¹¹ C]-(+)-PHNO. <i>Psychopharmacology</i> , 2016, 233, 3503-3512.	1.5	101
51	Glucose Metabolism in the Insula and Cingulate Is Affected by Systemic Inflammation in Humans. <i>Journal of Nuclear Medicine</i> , 2012, 53, 601-607.	2.8	100
52	Quantification and pharmacokinetics of blood-brain barrier disruption in humans. <i>Journal of Neurosurgery</i> , 1996, 85, 1056-1065.	0.9	98
53	Muscarinic Cholinergic Receptor Measurements with [¹⁸ F]FP-TZTP: Control and Competition Studies. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1998, 18, 1130-1142.	2.4	98
54	A Maximum Likelihood Method for Region-of-Interest Evaluation in Emission Tomography. <i>Journal of Computer Assisted Tomography</i> , 1986, 10, 654-663.	0.5	96

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55	5-HT 1A receptors are reduced in temporal lobe epilepsy after partial-volume correction. Journal of Nuclear Medicine, 2005, 46, 1128-35.	2.8	92
56	Tracer Kinetic Modeling in PET. , 2005, , 127-159.		91
57	Biodistribution and Radiation Dosimetry of LMI1195: First-in-Human Study of a Novel ¹⁸ F-Labeled Tracer for Imaging Myocardial Innervation. Journal of Nuclear Medicine, 2014, 55, 1445-1451.	2.8	91
58	Recovery from chronic spinal cord contusion after nogo receptor intervention. Annals of Neurology, 2011, 70, 805-821.	2.8	87
59	The Effect of Early Trauma Exposure on Serotonin Type 1B Receptor Expression Revealed by Reduced Selective Radioligand Binding. Archives of General Psychiatry, 2011, 68, 892.	13.8	84
60	Strategies to Improve Neuroreceptor Parameter Estimation by Linear Regression Analysis. Journal of Cerebral Blood Flow and Metabolism, 2002, , 1271-1281.	2.4	84
61	Pet physiological measurements using constant infusion. Nuclear Medicine and Biology, 2000, 27, 657-660.	0.3	83
62	Kinetic Modeling of the Serotonin 5-HT _{1B} Receptor Radioligand [¹¹ C]P943 in Humans. Journal of Cerebral Blood Flow and Metabolism, 2010, 30, 196-210.	2.4	83
63	Evaluation of motion correction methods in human brain PET imaging—A simulation study based on human motion data. Medical Physics, 2013, 40, 102503.	1.6	83
64	Reduced Brain Cannabinoid Receptor Availability in Schizophrenia. Biological Psychiatry, 2016, 79, 997-1005.	0.7	83
65	Lateralization and gender differences in the dopaminergic response to unpredictable reward in the human ventral striatum. European Journal of Neuroscience, 2011, 33, 1706-1715.	1.2	82
66	In Vivo Ketamine-Induced Changes in [¹¹ C]ABP688 Binding to Metabotropic Glutamate Receptor Subtype 5. Biological Psychiatry, 2015, 77, 266-275.	0.7	82
67	All Analysis of Signal Amplification Using Small Detectors in Positron Emission Tomography. Journal of Computer Assisted Tomography, 1982, 6, 551-565.	0.5	80
68	Synthesis and Evaluation of ¹¹ C-LY2795050 as a μ -Opioid Receptor Antagonist Radiotracer for PET Imaging. Journal of Nuclear Medicine, 2013, 54, 455-463.	2.8	80
69	Comment: The EM Parametric Image Reconstruction Algorithm. Journal of the American Statistical Association, 1985, 80, 20-22.	1.8	79
70	Reduced Amygdala Serotonin Transporter Binding in Posttraumatic Stress Disorder. Biological Psychiatry, 2011, 70, 1033-1038.	0.7	79
71	Imaging the Cannabinoid CB1 Receptor in Humans with [¹¹ C] OMAR: Assessment of Kinetic Analysis Methods, Test-Retest Reproducibility, and Gender Differences. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 1313-1322.	2.4	79
72	Kinetic Analysis of the 5-HT _{2A} Ligand [¹¹ C]MDL 100,907. Journal of Cerebral Blood Flow and Metabolism, 2000, 20, 899-909.	2.4	78

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73	11C-PBR28 imaging in multiple sclerosis patients and healthy controls: test-retest reproducibility and focal visualization of active white matter areas. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2015, 42, 1081-1092.	3.3	77
74	Assessment of a white matter reference region for ¹¹ C-UCB-J PET quantification. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020, 40, 1890-1901.	2.4	77
75	Brain incorporation of 11C-arachidonic acid, blood volume, and blood flow in healthy aging: a study with partial-volume correction. <i>Journal of Nuclear Medicine</i> , 2004, 45, 1471-9.	2.8	76
76	Cerebral Glucose Metabolism as a Function of Age in Man: Influence of the Rate Constants in the Fluorodeoxyglucose Method. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1983, 3, 250-253.	2.4	75
77	Reproducibility of Resting Cerebral Blood Flow Measurements with H ₂ ¹⁵ O Positron Emission Tomography in Humans. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1993, 13, 748-754.	2.4	75
78	The Functional Neuroanatomy of Tourette's Syndrome: An FDG-PET Study. II: Relationships between Regional Cerebral Metabolism and Associated Behavioral and Cognitive Features of the Illness. <i>Neuropsychopharmacology</i> , 1995, 13, 151-168.	2.8	75
79	The Suitability of [¹¹ C]- β -Methyl-L-tryptophan as a Tracer for Serotonin Synthesis: Studies With Dual Administration of [¹¹ C] and [¹⁴ C] Labeled Tracer. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2000, 20, 244-252.	2.4	74
80	Affinity and selectivity of [¹¹ C]-(+)- β HNO for the D3 and D2 receptors in the rhesus monkey brain in vivo. <i>Synapse</i> , 2012, 66, 489-500.	0.6	74
81	Assessment of Dynamic Neurotransmitter Changes with Bolus or Infusion Delivery of Neuroreceptor Ligands. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1998, 18, 1196-1210.	2.4	72
82	PET evaluation of [¹⁸ F]FCWAY, an analog of the 5-HT1A receptor antagonist, WAY-100635. <i>Nuclear Medicine and Biology</i> , 2000, 27, 493-497.	0.3	71
83	Effects of Early-Life Stress on Serotonin1A Receptors in Juvenile Rhesus Monkeys Measured by Positron Emission Tomography. <i>Biological Psychiatry</i> , 2010, 67, 1146-1153.	0.7	71
84	No Change in Serotonin Type 1A Receptor Binding in Patients With Posttraumatic Stress Disorder. <i>American Journal of Psychiatry</i> , 2005, 162, 383-385.	4.0	70
85	Effects of age, BMI and sex on the glial cell marker TSPO – a multicentre [¹¹ C]PBR28 HRRT PET study. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2019, 46, 2329-2338.	3.3	70
86	Synthesis and <i>In Vivo</i> Evaluation of a Novel PET Radiotracer for Imaging of Synaptic Vesicle Glycoprotein 2A (SV2A) in Nonhuman Primates. <i>ACS Chemical Neuroscience</i> , 2019, 10, 1544-1554.	1.7	70
87	Serotonin 1B Receptor Imaging in Alcohol Dependence. <i>Biological Psychiatry</i> , 2010, 67, 800-803.	0.7	69
88	PET imaging of opiate receptor binding in human epilepsy using [¹⁸ F]cyclofoxy. <i>Epilepsy Research</i> , 1992, 13, 129-139.	0.8	68
89	Association of In Vivo μ -Opioid Receptor Availability and the Transdiagnostic Dimensional Expression of Trauma-Related Psychopathology. <i>JAMA Psychiatry</i> , 2014, 71, 1262.	6.0	67
90	Imaging Glutamate Homeostasis in Cocaine Addiction with the Metabotropic Glutamate Receptor 5 Positron Emission Tomography Radiotracer [¹¹ C]ABP688 and Magnetic Resonance Spectroscopy. <i>Biological Psychiatry</i> , 2014, 75, 165-171.	0.7	66

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91	In vivo muscarinic 2 receptor imaging in cognitively normal young and older volunteers. <i>Synapse</i> , 2003, 48, 39-44.	0.6	64
92	Brain Incorporation of [¹¹ C]Arachidonic Acid in Young Healthy Humans Measured with Positron Emission Tomography. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2002, 22, 1453-1462.	2.4	63
93	Dopamine D3 receptor alterations in cocaine-dependent humans imaged with [¹¹ C](+)PHNO. <i>Drug and Alcohol Dependence</i> , 2014, 139, 100-105.	1.6	63
94	Kinetic Analysis of the Metabotropic Glutamate Subtype 5 Tracer [¹⁸ F]FPEB in Bolus and Bolus-Plus-Constant-Infusion Studies in Humans. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013, 33, 532-541.	2.4	61
95	First-in-Human Evaluation of ¹⁸ F-SynVesT-1, a Radioligand for PET Imaging of Synaptic Vesicle Glycoprotein 2A. <i>Journal of Nuclear Medicine</i> , 2021, 62, 561-567.	2.8	60
96	Intravascular streaming during carotid artery infusions. <i>Journal of Neurosurgery</i> , 1991, 74, 763-772.	0.9	59
97	Higher in vivo muscarinic-2 receptor distribution volumes in aging subjects with an apolipoprotein E- ϵ 4 allele. <i>Synapse</i> , 2003, 49, 150-156.	0.6	59
98	Arterial transit time effects in pulsed arterial spin labeling CBF mapping: Insight from a PET and MR study in normal human subjects. <i>Magnetic Resonance in Medicine</i> , 2010, 63, 374-384.	1.9	58
99	Nicotine-Induced Dopamine Release in Primates Measured with [¹¹ C]Raclopride PET. <i>Neuropsychopharmacology</i> , 2004, 29, 259-268.	2.8	57
100	The Effect of Antiepileptic Drugs on 5-HT1A-Receptor Binding Measured by Positron Emission Tomography. <i>Epilepsia</i> , 2006, 47, 499-503.	2.6	57
101	In Vivo Synaptic Density Imaging with ¹¹ C-UCB-J Detects Treatment Effects of Saracatinib in a Mouse Model of Alzheimer Disease. <i>Journal of Nuclear Medicine</i> , 2019, 60, 1780-1786.	2.8	57
102	PTSD is associated with neuroimmune suppression: evidence from PET imaging and postmortem transcriptomic studies. <i>Nature Communications</i> , 2020, 11, 2360.	5.8	56
103	List-Mode PET Motion Correction Using Markerless Head Tracking: Proof-of-Concept With Scans of Human Subject. <i>IEEE Transactions on Medical Imaging</i> , 2013, 32, 200-209.	5.4	55
104	Synaptic density and cognitive performance in Alzheimer's disease: A PET imaging study with [¹¹ C]UCB-J. <i>Alzheimer's and Dementia</i> , 2022, 18, 2527-2536.	0.4	55
105	Pancreatic Beta Cell Mass PET Imaging and Quantification with [¹¹ C]DTBZ and [¹⁸ F]FP-(+)-DTBZ in Rodent Models of Diabetes. <i>Molecular Imaging and Biology</i> , 2011, 13, 973-984.	1.3	54
106	Evaluation of the agonist PET radioligand [¹¹ C]GR103545 to image kappa opioid receptor in humans: Kinetic model selection, test-retest reproducibility and receptor occupancy by the antagonist PF-04455242. <i>NeuroImage</i> , 2014, 99, 69-79.	2.1	54
107	Respiratory Motion Compensation for PET/CT with Motion Information Derived from Matched Attenuation-Corrected Gated PET Data. <i>Journal of Nuclear Medicine</i> , 2018, 59, 1480-1486.	2.8	54
108	Anti-edema and antioxidant combination therapy for ischemic stroke via glyburide-loaded betulinic acid nanoparticles. <i>Theranostics</i> , 2019, 9, 6991-7002.	4.6	54

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109	Positron Emission Tomography Shows Elevated Cannabinoid CB_1 Receptor Binding in Men with Alcohol Dependence. <i>Alcoholism: Clinical and Experimental Research</i> , 2012, 36, 2104-2109.	1.4	53
110	Association of $\text{A}\beta^2$ deposition and regional synaptic density in early Alzheimer's disease: a PET imaging study with $[^{11}\text{C}]\text{UCB-J}$. <i>Alzheimer's Research and Therapy</i> , 2021, 13, 11.	3.0	53
111	Cerebral blood flow with ^{15}O water PET studies using an image-derived input function and MR-defined carotid centerlines. <i>Physics in Medicine and Biology</i> , 2013, 58, 1903-1923.	1.6	51
112	Reduced synaptic vesicle protein 2A binding in temporal lobe epilepsy: A $[^{11}\text{C}]\text{UCB-L}$ positron emission tomography study. <i>Epilepsia</i> , 2020, 61, 2183-2193.	2.6	51
113	In vivo evidence of lower synaptic vesicle density in schizophrenia. <i>Molecular Psychiatry</i> , 2021, 26, 7690-7698.	4.1	51
114	Evaluation of $[^{11}\text{C}]\text{MRB}$ for assessment of occupancy of norepinephrine transporters: Studies with atomoxetine in non-human primates. <i>NeuroImage</i> , 2011, 56, 268-279.	2.1	50
115	Phosphodiesterase 10A PET Radioligand Development Program: From Pig to Human. <i>Journal of Nuclear Medicine</i> , 2014, 55, 595-601.	2.8	50
116	Reductions in Brain 5-HT _{1B} Receptor Availability in Primarily Cocaine-Dependent Humans. <i>Biological Psychiatry</i> , 2014, 76, 816-822.	0.7	50
117	Distribution and Kinetics of 3-O-Methyl-6- $[^{18}\text{F}]\text{fluoro-L-DOPA}$ in the Rhesus Monkey Brain. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1991, 11, 726-734.	2.4	49
118	In vivo variation in same-day estimates of metabotropic glutamate receptor subtype 5 binding using $[^{11}\text{C}]\text{ABP688}$ and $[^{18}\text{F}]\text{FPEB}$. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 2716-2727.	2.4	49
119	Human Positron Emission Tomography Neuroimaging. <i>Annual Review of Biomedical Engineering</i> , 2019, 21, 551-581.	5.7	48
120	Opiate receptor avidity and cerebral blood flow in Alzheimer's disease. <i>Journal of the Neurological Sciences</i> , 1997, 148, 171-180.	0.3	47
121	List-mode reconstruction for the Biograph mCT with physics modeling and event-by-event motion correction. <i>Physics in Medicine and Biology</i> , 2013, 58, 5567-5591.	1.6	47
122	Elevated Dopamine D _{2/3} Receptor Availability in Obese Individuals: A PET Imaging Study with $[^{11}\text{C}](+)\text{PHNO}$. <i>Neuropsychopharmacology</i> , 2016, 41, 3042-3050.	2.8	47
123	Receptor Occupancy of the μ -Opioid Antagonist LY2456302 Measured with Positron Emission Tomography and the Novel Radiotracer $^{11}\text{C-LY2795050}$. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2016, 356, 260-266.	1.3	47
124	PET imaging of $\alpha 7$ nicotinic acetylcholine receptors: a comparative study of $[^{18}\text{F}]\text{ASEM}$ and $[^{18}\text{F}]\text{DBT-10}$ in nonhuman primates, and further evaluation of $[^{18}\text{F}]\text{ASEM}$ in humans. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2017, 44, 1042-1050.	3.3	47
125	Metabotropic Glutamate Receptor 5 and Glutamate Involvement in Major Depressive Disorder: A Multimodal Imaging Study. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2017, 2, 449-456.	1.1	47
126	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.	2.4	47

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127	In Vivo Reactive Oxygen Species Detection With a Novel Positron Emission Tomography Tracer, 18F-DHMT, Allows for Early Detection of Anthracycline-Induced Cardiotoxicity in Rodents. <i>JACC Basic To Translational Science</i> , 2018, 3, 378-390.	1.9	46
128	Radiolabeling of Poly(lactic-co-glycolic acid) (PLGA) Nanoparticles with Biotinylated F-18 Prosthetic Groups and Imaging of Their Delivery to the Brain with Positron Emission Tomography. <i>Bioconjugate Chemistry</i> , 2014, 25, 2157-2165.	1.8	45
129	A single-center, open-label positron emission tomography study to evaluate brivaracetam and levetiracetam synaptic vesicle glycoprotein 2A binding in healthy volunteers. <i>Epilepsia</i> , 2019, 60, 958-967.	2.6	45
130	Assessment of population-based input functions for Patlak imaging of whole body dynamic 18F-FDG PET. <i>EJNMMI Physics</i> , 2020, 7, 67.	1.3	45
131	Brain Uptake of the Acid Metabolites of F-18 Labeled WAY 100635 Analogs. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2003, 23, 249-260.	2.4	44
132	Evaluation of ¹¹ C-BU99008, a PET Ligand for the Imidazoline ₂ Binding Sites in Rhesus Brain. <i>Journal of Nuclear Medicine</i> , 2014, 55, 838-844.	2.8	44
133	PET Imaging for Early Detection of Alzheimer's Disease. <i>PET Clinics</i> , 2017, 12, 329-350.	1.5	44
134	Data-driven event-by-event respiratory motion correction using TOF PET list-mode centroid of distribution. <i>Physics in Medicine and Biology</i> , 2017, 62, 4741-4755.	1.6	44
135	Imaging Nicotine- and Amphetamine-Induced Dopamine Release in Rhesus Monkeys with [¹¹ C]PHNO vs [¹¹ C]raclopride PET. <i>Neuropsychopharmacology</i> , 2014, 39, 866-874.	2.8	43
136	Age-related changes in binding of the D2/3 receptor radioligand [¹¹ C](+)PHNO in healthy volunteers. <i>NeuroImage</i> , 2016, 130, 241-247.	2.1	43
137	Dose-Related Target Occupancy and Effects on Circuitry, Behavior, and Neuroplasticity of the Glycine Transporter-1 Inhibitor PF-03463275 in Healthy and Schizophrenia Subjects. <i>Biological Psychiatry</i> , 2018, 84, 413-421.	0.7	43
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