

Adriaan A Lammertsma

List of Publications by Year in descending order

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283
papers

24,415
citations

6613

79
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8866

145
g-index

285
all docs

285
docs citations

285
times ranked

19730
citing authors

#	ARTICLE	IF	CITATIONS
1	Simplified Reference Tissue Model for PET Receptor Studies. <i>NeuroImage</i> , 1996, 4, 153-158.	4.2	1,864
2	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
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	The Relationship between Global and Local Changes in PET Scans. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1990, 10, 458-466.	4.3	841
5	Microglia Activation in Recent-Onset Schizophrenia: A Quantitative (R)-[11C]PK11195 Positron Emission Tomography Study. <i>Biological Psychiatry</i> , 2008, 64, 820-822.	1.3	534
6	Prevalence of Amyloid PET Positivity in Dementia Syndromes. <i>JAMA - Journal of the American Medical Association</i> , 2015, 313, 1939.	7.4	501
7	The colour centre in the cerebral cortex of man. <i>Nature</i> , 1989, 340, 386-389.	27.8	479
8	Comparison of Methods for Analysis of Clinical [11C]Raclopride Studies. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1996, 16, 42-52.	4.3	441
9	δ^9 -Tetrahydrocannabinol Induces Dopamine Release in the Human Striatum. <i>Neuropsychopharmacology</i> , 2009, 34, 759-766.	5.4	341
10	Comparison of Coronary CT Angiography, SPECT, PET, and Hybrid Imaging for Diagnosis of Ischemic Heart Disease Determined by Fractional Flow Reserve. <i>JAMA Cardiology</i> , 2017, 2, 1100.	6.1	324
11	Rapid Decrease in Delivery of Chemotherapy to Tumors after Anti-VEGF Therapy: Implications for Scheduling of Anti-Angiogenic Drugs. <i>Cancer Cell</i> , 2012, 21, 82-91.	16.8	307
12	Correction for the Presence of Intravascular Oxygen-15 in the Steady-State Technique for Measuring Regional Oxygen Extraction Ratio in the Brain: 1. Description of the Method. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1983, 3, 416-424.	4.3	297
13	Tracer Kinetic Modeling of the 5-HT _{1A} Receptor Ligand [carbonyl-11C]WAY-100635 for PET. <i>NeuroImage</i> , 1998, 8, 426-440.	4.2	267
14	Noninvasive quantification of regional myocardial blood flow in coronary artery disease with oxygen-15-labeled carbon dioxide inhalation and positron emission tomography. <i>Circulation</i> , 1991, 83, 875-885.	1.6	259
15	Quantitative Assessment of Myocardial Perfusion in the Detection of Significant Coronary Artery Disease. <i>Journal of the American College of Cardiology</i> , 2014, 64, 1464-1475.	2.8	253
16	Blood-brain barrier P-glycoprotein function in Alzheimer's disease. <i>Brain</i> , 2012, 135, 181-189.	7.6	252
17	Effects of ROI definition and reconstruction method on quantitative outcome and applicability in a response monitoring trial. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2005, 32, 294-301.	6.4	247
18	Prognostic Relevance of Response Evaluation Using [¹⁸ F]-2-Fluoro-2-Deoxy-D-Glucose Positron Emission Tomography in Patients With Locally Advanced Non-Small-Cell Lung Cancer. <i>Journal of Clinical Oncology</i> , 2005, 23, 8362-8370.	1.6	243

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19	Pioglitazone Improves Cardiac Function and Alters Myocardial Substrate Metabolism Without Affecting Cardiac Triglyceride Accumulation and High-Energy Phosphate Metabolism in Patients With Well-Controlled Type 2 Diabetes Mellitus. <i>Circulation</i> , 2009, 119, 2069-2077.	1.6	210
20	Performance of Immuno-Positron Emission Tomography with Zirconium-89-Labeled Chimeric Monoclonal Antibody U36 in the Detection of Lymph Node Metastases in Head and Neck Cancer Patients. <i>Clinical Cancer Research</i> , 2006, 12, 2133-2140.	7.0	207
21	Benzodiazepine Receptor Quantification in vivo in Humans Using [¹¹ C]Flumazenil and PET: Application of the Steady-State Principle. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1995, 15, 152-165.	4.3	204
22	Quantitation of Carbon-11-labeled raclopride in rat striatum using positron emission tomography. <i>Synapse</i> , 1992, 12, 47-54.	1.2	198
23	Regional cerebral blood flow during volitional breathing in man. <i>Journal of Physiology</i> , 1991, 443, 91-103.	2.9	186
24	Different brain effects during chronic and acute sacral neuromodulation in urge incontinent patients with implanted neurostimulators. <i>BJU International</i> , 2006, 98, 1238-1243.	2.5	183
25	Measurement of regional cerebral blood flow and oxygen utilisation in patients with cerebral tumours using ¹⁵ O and positron emission tomography: Analytical techniques and preliminary results. <i>Neuroradiology</i> , 1982, 23, 63-74.	2.2	182
26	Myocardial viability in chronic ischemic heart disease. <i>Journal of the American College of Cardiology</i> , 2003, 41, 1341-1348.	2.8	181
27	Early Prediction of Nonprogression in Advanced Non-Small-Cell Lung Cancer Treated With Erlotinib By Using [¹⁸ F]Fluorodeoxyglucose and [¹⁸ F]Fluorothymidine Positron Emission Tomography. <i>Journal of Clinical Oncology</i> , 2011, 29, 1701-1708.	1.6	170
28	Myocardial Energetics and Efficiency. <i>Circulation</i> , 2007, 115, 918-927.	1.6	168
29	Effect of age on functional P-glycoprotein in the blood-brain barrier measured by use of (R)-[¹¹ C]verapamil and positron emission tomography. <i>Clinical Pharmacology and Therapeutics</i> , 2006, 79, 540-548.	4.7	163
30	Relationship of Cerebrospinal Fluid Markers to [¹¹ C]-PiB and [¹⁸ F]-FDDNP Binding. <i>Journal of Nuclear Medicine</i> , 2009, 50, 1464-1470.	5.0	162
31	Use of PET Methods for Measurement of Cerebral Energy Metabolism and Hemodynamics in Cerebrovascular Disease. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1989, 9, 723-742.	4.3	161
32	Myocardial Presynaptic and Postsynaptic Autonomic Dysfunction in Hypertrophic Cardiomyopathy. <i>Circulation Research</i> , 1998, 82, 57-62.	4.5	155
33	Reduced GABA _A benzodiazepine receptor binding in veterans with post-traumatic stress disorder. <i>Molecular Psychiatry</i> , 2008, 13, 74-83.	7.9	148
34	Longitudinal Amyloid Imaging Using [¹¹ C]-PiB: Methodologic Considerations. <i>Journal of Nuclear Medicine</i> , 2013, 54, 1570-1576.	5.0	148
35	In vivo Measurement of Regional Cerebral Haematocrit Using Positron Emission Tomography. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1984, 4, 317-322.	4.3	145
36	Abnormalities of Cardiac Sympathetic Innervation in Arrhythmogenic Right Ventricular Cardiomyopathy. <i>Circulation</i> , 2000, 101, 1552-1558.	1.6	145

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37	Evaluation of Reference Tissue Models for the Analysis of [¹¹ C](R)-PK11195 Studies. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2006, 26, 1431-1441.	4.3	145
38	Microglial activation in Alzheimer's disease: an (R)-[¹¹ C]PK11195 positron emission tomography study. <i>Neurobiology of Aging</i> , 2013, 34, 128-136.	3.1	145
39	Combination of Dynamic and Integral Methods for Generating Reproducible Functional CBF Images. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1990, 10, 675-686.	4.3	137
40	Characteristics of a new fully programmable blood sampling device for monitoring blood radioactivity during PET. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2001, 28, 81-89.	2.1	136
41	A Theoretical Study of the Steady-State Model for Measuring Regional Cerebral Blood Flow and Oxygen Utilisation Using Oxygen-15. <i>Journal of Computer Assisted Tomography</i> , 1981, 5, 544-550.	0.9	133
42	Dopaminergic activity in Tourette syndrome and obsessive-compulsive disorder. <i>European Neuropsychopharmacology</i> , 2013, 23, 1423-1431.	0.7	133
43	Accuracy and precision of pseudo-continuous arterial spin labeling perfusion during baseline and hypercapnia: A head-to-head comparison with ¹⁵ O H ₂ O positron emission tomography. <i>NeuroImage</i> , 2014, 92, 182-192.	4.2	133
44	Effect of Plaque Burden and Morphology on Myocardial Blood Flow and Fractional Flow Reserve. <i>Journal of the American College of Cardiology</i> , 2018, 71, 499-509.	2.8	133
45	Pathophysiological Mechanisms of Chronic Reversible Left Ventricular Dysfunction due to Coronary Artery Disease (Hibernating Myocardium). <i>Circulation</i> , 1997, 96, 3205-3214.	1.6	132
46	Repeatability of ¹⁸ F-FDG PET in a Multicenter Phase I Study of Patients with Advanced Gastrointestinal Malignancies. <i>Journal of Nuclear Medicine</i> , 2009, 50, 1646-1654.	5.0	129
47	Forward to the Past: The Case for Quantitative PET Imaging. <i>Journal of Nuclear Medicine</i> , 2017, 58, 1019-1024.	5.0	128
48	Partial volume corrected image derived input functions for dynamic PET brain studies: Methodology and validation for [¹¹ C]flumazenil. <i>NeuroImage</i> , 2008, 39, 1041-1050.	4.2	127
49	Microglial activation in healthy aging. <i>Neurobiology of Aging</i> , 2012, 33, 1067-1072.	3.1	125
50	¹⁸ F-2-Fluoro-2-Deoxy-d-Glucose Positron Emission Tomography in Staging of Locally Advanced Breast Cancer. <i>Journal of Clinical Oncology</i> , 2004, 22, 1253-1259.	1.6	121
51	Optimization of Supervised Cluster Analysis for Extracting Reference Tissue Input Curves in [¹¹ C](R)-PK11195 Brain PET Studies. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2012, 32, 1600-1608.	4.3	120
52	Detection of Alzheimer Pathology In Vivo Using Both ¹¹ C-PIB and ¹⁸ F-FDDNP PET. <i>Journal of Nuclear Medicine</i> , 2009, 50, 191-197.	5.0	119
53	Arterial Spin Labeling Perfusion MRI at Multiple Delay Times: A Correlative Study with ¹⁵ O Positron Emission Tomography in Patients with Symptomatic Carotid Artery Occlusion. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2010, 30, 222-229.	4.3	117
54	Development of [¹¹ C]erlotinib Positron Emission Tomography for In Vivo Evaluation of EGF Receptor Mutational Status. <i>Clinical Cancer Research</i> , 2013, 19, 183-193.	7.0	117

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55	Changes in global cerebral blood flow in humans: effect on regional cerebral blood flow during a neural activation task.. Journal of Physiology, 1993, 471, 521-534.	2.9	116
56	Effects of Cardiac Resynchronization Therapy on Myocardial Perfusion Reserve. Circulation, 2004, 110, 646-651.	1.6	115
57	Amyloid burden and metabolic function in early-onset Alzheimer's disease: parietal lobe involvement. Brain, 2012, 135, 2115-2125.	7.6	109
58	Hybrid Imaging Using Quantitative H ₂ ¹⁵ O PET and CT-Based Coronary Angiography for the Detection of Coronary Artery Disease. Journal of Nuclear Medicine, 2013, 54, 55-63.	5.0	109
59	Concordance Between Cerebrospinal Fluid Biomarkers and [11C]PIB PET in a Memory Clinic Cohort. Journal of Alzheimer's Disease, 2014, 41, 801-807.	2.6	109
60	Effects of Hepatic Triglyceride Content on Myocardial Metabolism in Type 2 Diabetes. Journal of the American College of Cardiology, 2010, 56, 225-233.	2.8	108
61	(R)- and (S)-[11C]verapamil as PET-tracers for measuring P-glycoprotein function: in vitro and in vivo evaluation. Nuclear Medicine and Biology, 2003, 30, 747-751.	0.6	106
62	Cardiac sympathetic innervation in patients with idiopathic right ventricular outflow tract tachycardia. Journal of the American College of Cardiology, 1998, 32, 181-186.	2.8	104
63	¹⁸ F-FDG PET as a Tool to Predict the Clinical Outcome of Infliximab Treatment of Rheumatoid Arthritis: An Explorative Study. Journal of Nuclear Medicine, 2011, 52, 77-80.	5.0	104
64	Evaluation of (R)-[11C]verapamil as PET tracer of P-glycoprotein function in the blood-brain barrier: kinetics and metabolism in the rat. Nuclear Medicine and Biology, 2005, 32, 87-93.	0.6	102
65	Quantification of [¹⁸ F]DPA-714 Binding in the Human Brain: Initial Studies in Healthy Controls and Alzheimer'S Disease Patients. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 766-772.	4.3	99
66	Amygdala activity in obsessive-compulsive disorder with contamination fear: a study with oxygen-15 water positron emission tomography. Psychiatry Research - Neuroimaging, 2004, 132, 225-237.	1.8	98
67	Measurement of regional cerebral blood flow, blood volume and oxygen metabolism in patients with sickle cell disease using positron emission tomography.. Stroke, 1986, 17, 692-698.	2.0	97
68	Dose dependent occupancy of central dopamine D2 receptors by the novel neuroleptic CP-88,059-01: a study using positron emission tomography and 11C-raclopride. Psychopharmacology, 1993, 112, 308-314.	3.1	97
69	Comparison of regional myocardial blood flow in syndrome X and one-vessel coronary artery disease. American Journal of Cardiology, 1993, 72, 134-139.	1.6	97
70	Macrophage positron emission tomography imaging as a biomarker for preclinical rheumatoid arthritis: Findings of a prospective pilot study. Arthritis and Rheumatism, 2012, 64, 62-66.	6.7	95
71	Determinants of Diagnostic Performance Of [F-18]Fluorodeoxyglucose Positron Emission Tomography for Axillary Staging in Breast Cancer. Annals of Surgery, 2002, 236, 619-624.	4.2	92
72	Diffuse reduction of myocardial beta-adrenoceptors in hypertrophic cardiomyopathy: A study with positron emission tomography. Journal of the American College of Cardiology, 1993, 22, 1653-1660.	2.8	91

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73	Effect of L-dopa and 6-hydroxydopamine lesioning on [¹¹ C]raclopride binding in rat striatum, quantified using PET. <i>Synapse</i> , 1995, 21, 45-53.	1.2	91
74	Measurement of human cerebral monoamine oxidase type B (MAO-B) activity with positron emission tomography (PET): a dose ranging study with the reversible inhibitor Ro 19-6327. <i>European Journal of Clinical Pharmacology</i> , 1991, 40, 169-173.	1.9	90
75	Gene-specific increase in the energetic cost of contraction in hypertrophic cardiomyopathy caused by thick filament mutations. <i>Cardiovascular Research</i> , 2014, 103, 248-257.	3.8	88
76	Evaluation of Tracer Kinetic Models for Quantification of P-Glycoprotein Function using (R)-[¹¹ C]Verapamil and PET. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2007, 27, 424-433.	4.3	87
77	Quantitative Measurement of Blood-Brain Barrier Permeability Using Rubidium-82 and Positron Emission Tomography. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1984, 4, 535-545.	4.3	86
78	Coronary microvascular resistance: methods for its quantification in humans. <i>Basic Research in Cardiology</i> , 2009, 104, 485-498.	5.9	86
79	Simplified parametric methods for [¹¹ C]PIB studies. <i>NeuroImage</i> , 2008, 42, 76-86.	4.2	85
80	Measuring [¹⁸ F]FDG uptake in breast cancer during chemotherapy: comparison of analytical methods. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2003, 30, 674-681.	6.4	80
81	Cerebral perfusion and glucose metabolism in Alzheimer's disease and frontotemporal dementia: two sides of the same coin?. <i>European Radiology</i> , 2015, 25, 3050-3059.	4.5	80
82	Carbon-11 acetate as a tracer of myocardial oxygen consumption. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2001, 28, 651-668.	2.1	78
83	Measurement of blood flow, oxygen utilisation, oxygen extraction ratio, and fractional blood volume in human brain tumours and surrounding oedematous tissue. <i>British Journal of Radiology</i> , 1985, 58, 725-734.	2.2	77
84	Measurement of Cerebral Blood Flow Using Bolus Inhalation of C ¹⁵ O ₂ and Positron Emission Tomography: Description of the Method and its Comparison with the C ¹⁵ O ₂ Continuous Inhalation Method. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1984, 4, 224-234.	4.3	76
85	Measurement of Glucose Utilisation with [¹⁸ F]2-Fluoro-2-Deoxy-D-Glucose: A Comparison of Different Analytical Methods. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1987, 7, 161-172.	4.3	76
86	Right Ventricular Failure in Idiopathic Pulmonary Arterial Hypertension Is Associated With Inefficient Myocardial Oxygen Utilization. <i>Circulation: Heart Failure</i> , 2011, 4, 700-706.	3.9	74
87	Measurement of Cerebral Monoamine Oxidase B Activity Using L-[¹¹ C]Deprenyl and Dynamic Positron Emission Tomography. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1991, 11, 545-556.	4.3	72
88	Transmural myocardial blood flow distribution in hypertrophic cardiomyopathy and effect of treatment. <i>Basic Research in Cardiology</i> , 1999, 94, 49-59.	5.9	72
89	Widespread and Prolonged Increase in [¹¹ C]-PK11195 Binding After Traumatic Brain Injury. <i>Journal of Nuclear Medicine</i> , 2011, 52, 1235-1239.	5.0	72
90	Reproducibility of quantitative 18F-3-deoxy-3-fluorothymidine measurements using positron emission tomography. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2009, 36, 389-395.	6.4	71

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91	Synthesis and initial preclinical evaluation of the P2X ₇ receptor antagonist [¹¹ C]A β 740003 as a novel tracer of neuroinflammation. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2014, 57, 509-516.	1.0	70
92	Development of a Tracer Kinetic Plasma Input Model for (R)-[¹¹ C]PK11195 Brain Studies. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005, 25, 842-851.	4.3	68
93	How should we analyse FDG PET studies for monitoring tumour response?. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2006, 33, 16-21.	6.4	67
94	Quantitative measurement of monoclonal antibody distribution and blood flow using positron emission tomography and ¹²⁴ Iodine in patients with breast cancer. <i>International Journal of Cancer</i> , 1991, 47, 344-347.	5.1	66
95	Evaluation of [¹¹ C]laniquidar as a tracer of P-glycoprotein: radiosynthesis and biodistribution in rats. <i>Nuclear Medicine and Biology</i> , 2009, 36, 643-649.	0.6	66
96	Impact of anatomical and functional severity of coronary atherosclerotic plaques on the transmural perfusion gradient: a [¹⁵ O]H ₂ O PET study. <i>European Heart Journal</i> , 2014, 35, 2094-2105.	2.2	66
97	Quantitative Analysis of Response to Treatment with Erlotinib in Advanced Non-Small Cell Lung Cancer Using ¹⁸ F-FDG and ³ -Deoxy- ² - ¹⁸ F-Fluorothymidine PET. <i>Journal of Nuclear Medicine</i> , 2011, 52, 1871-1877.	5.0	65
98	Multicenter Harmonization of ⁸⁹ Zr PET/CT Performance. <i>Journal of Nuclear Medicine</i> , 2014, 55, 264-267.	5.0	63
99	Cardiac PET-CT: advanced hybrid imaging for the detection of coronary artery disease. <i>Netherlands Heart Journal</i> , 2010, 18, 90-98.	0.8	62
100	Effects of Image Characteristics on Performance of Tumor Delineation Methods: A Test-Retest Assessment. <i>Journal of Nuclear Medicine</i> , 2011, 52, 1550-1558.	5.0	60
101	A Statistical Study of the Steady State Technique for Measuring Regional Cerebral Blood Flow and Oxygen Utilisation Using ¹⁵ O. <i>Journal of Computer Assisted Tomography</i> , 1982, 6, 566-573.	0.9	59
102	The C ¹⁵ O ₂ Build-up Technique to Measure Regional Cerebral Blood Flow and Volume of Distribution of Water. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1989, 9, 461-470.	4.3	59
103	HRRT Versus HR+ Human Brain PET Studies: An Interscanner Test-Retest Study. <i>Journal of Nuclear Medicine</i> , 2009, 50, 693-702.	5.0	59
104	Measurement of Regional Cerebral pH in Human Subjects Using Continuous Inhalation of ¹¹ CO ₂ and Positron Emission Tomography. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1984, 4, 458-465.	4.3	58
105	Toward Prediction of Efficacy of Chemotherapy: A Proof of Concept Study in Lung Cancer Patients Using [¹¹ C]docetaxel and Positron Emission Tomography. <i>Clinical Cancer Research</i> , 2013, 19, 4163-4173.	7.0	58
106	Blood-brain barrier P-glycoprotein function is not impaired in early Parkinson's disease. <i>Parkinsonism and Related Disorders</i> , 2008, 14, 505-508.	2.2	57
107	Evaluation of compartmental and spectral analysis models of [¹⁸ F]FDG kinetics for heart and brain studies with PET. <i>IEEE Transactions on Biomedical Engineering</i> , 1998, 45, 1429-1448.	4.2	55
108	Doppler-Derived Intracoronary Physiology Indices Predict the Occurrence of Microvascular Injury and Microvascular Perfusion Deficits After Angiographically Successful Primary Percutaneous Coronary Intervention. <i>Circulation: Cardiovascular Interventions</i> , 2015, 8, e001786.	3.9	55

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109	Low-Dose Quantitative Myocardial Blood Flow Imaging Using ¹⁵ O-Water and PET Without Attenuation Correction. <i>Journal of Nuclear Medicine</i> , 2010, 51, 575-580.	5.0	54
110	Evaluation of Reference Regions for <i>(R)</i> -[¹¹ C]PK11195 Studies in Alzheimer's Disease and Mild Cognitive Impairment. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2007, 27, 1965-1974.	4.3	53
111	Comparison of Plasma Input and Reference Tissue Models for Analysing [¹¹ C]flumazenil Studies. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2008, 28, 579-587.	4.3	52
112	Glucose Transport across the Blood-Brain Barrier in Normal Human Subjects and Patients with Cerebral Tumours Studied Using [¹¹ C]3-O-Methyl-D-Glucose and Positron Emission Tomography. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1986, 6, 230-239.	4.3	51
113	Does Myocardial Fibrosis Hinder Contractile Function and Perfusion in Idiopathic Dilated Cardiomyopathy? PET and MR Imaging Study. <i>Radiology</i> , 2006, 240, 380-388.	7.3	51
114	Carriers of the hypertrophic cardiomyopathy MYBPC3 mutation are characterized by reduced myocardial efficiency in the absence of hypertrophy and microvascular dysfunction. <i>European Journal of Heart Failure</i> , 2011, 13, 1283-1289.	7.1	49
115	Measurement of liver blood flow using oxygen-15 labelled water and dynamic positron emission tomography: Limitations of model description. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 1996, 23, 169-177.	2.1	48
116	Radioligand studies: imaging and quantitative analysis. <i>European Neuropsychopharmacology</i> , 2002, 12, 513-516.	0.7	48
117	Benzodiazepine-GABAA Receptors in Idiopathic Generalized Epilepsy Measured with [¹¹ C]Flumazenil and Positron Emission Tomography. <i>Epilepsia</i> , 1995, 36, 113-121.	5.1	47
118	Neurophysiological correlates of habituation during exposure in spider phobia. <i>Psychiatry Research - Neuroimaging</i> , 2004, 132, 149-158.	1.8	47
119	Tumor Lesion Glycolysis and Tumor Lesion Proliferation for Response Prediction and Prognostic Differentiation in Patients With Advanced Non-Small Cell Lung Cancer Treated With Erlotinib. <i>Clinical Nuclear Medicine</i> , 2012, 37, 1058-1064.	1.3	47
120	Noninvasive Quantification of Regional Myocardial Metabolic Rate of Oxygen by ¹⁵ O ₂ Inhalation and Positron Emission Tomography. <i>Circulation</i> , 1996, 94, 808-816.	1.6	47
121	Dipyridamole vasodilator response after human orthotopic heart transplantation: Quantification by oxygen-15-labeled water and positron emission tomography. <i>Journal of the American College of Cardiology</i> , 1992, 19, 100-106.	2.8	46
122	Quantitative analysis of [carbonyl- ¹¹ C]WAY-100635 PET studies. <i>Nuclear Medicine and Biology</i> , 2000, 27, 477-482.	0.6	46
123	Reproducibility of quantitative (R)-[¹¹ C]verapamil studies. <i>EJNMMI Research</i> , 2012, 2, 1.	2.5	45
124	Reproducibility of Tumor Perfusion Measurements Using ¹⁵ O-Labeled Water and PET. <i>Journal of Nuclear Medicine</i> , 2008, 49, 1763-1768.	5.0	44
125	Changes in GABA _A receptor properties in amygdala kindled animals: In vivo studies using [¹¹ C]flumazenil and positron emission tomography. <i>Epilepsia</i> , 2009, 50, 88-98.	5.1	43
126	(R)-[¹¹ C]Verapamil PET studies to assess changes in P-glycoprotein expression and functionality in rat blood-brain barrier after exposure to kainate-induced status epilepticus. <i>BMC Medical Imaging</i> , 2011, 11, 1.	2.7	43

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127	An exploratory clinical study of p38 ^{Î±} kinase inhibition in Alzheimer's disease. <i>Annals of Clinical and Translational Neurology</i> , 2018, 5, 464-473.	3.7	43
128	Quantitative Parametric Perfusion Images Using ¹⁵ O-Labeled Water and a Clinical PET/CT Scanner: Test-Retest Variability in Lung Cancer. <i>Journal of Nuclear Medicine</i> , 2010, 51, 1684-1690.	5.0	42
129	Parametric Images of Myocardial Viability Using a Single ¹⁵ O-H ₂ O PET/CT Scan. <i>Journal of Nuclear Medicine</i> , 2011, 52, 745-749.	5.0	41
130	Amyloid PET and cognitive decline in cognitively normal individuals: the SCIENCE project. <i>Neurobiology of Aging</i> , 2019, 79, 50-58.	3.1	41
131	In vivo measurements of regional cerebral blood flow and blood volume in patients with brain tumours using positron emission tomography. <i>Acta Neurochirurgica</i> , 1983, 69, 5-13.	1.7	40
132	[18F]FDG and [18F]FLT uptake in human breast cancer cells in relation to the effects of chemotherapy: an in vitro study. <i>British Journal of Cancer</i> , 2008, 99, 481-487.	6.4	40
133	Accuracy of 3-Dimensional Reconstruction Algorithms for the High-Resolution Research Tomograph. <i>Journal of Nuclear Medicine</i> , 2009, 50, 72-80.	5.0	40
134	Neurophysiological Effects of Sleep Deprivation in Healthy Adults, a Pilot Study. <i>PLoS ONE</i> , 2015, 10, e0116906.	2.5	40
135	PET/CT-Derived Whole-Body and Bone Marrow Dosimetry of ⁸⁹ Zr-Cetuximab. <i>Journal of Nuclear Medicine</i> , 2015, 56, 249-254.	5.0	40
136	Systolic pulmonary artery pressure and heart rate are main determinants of oxygen consumption in the right ventricular myocardium of patients with idiopathic pulmonary arterial hypertension. <i>European Journal of Heart Failure</i> , 2011, 13, 1290-1295.	7.1	38
137	Vasodilator reserve in collateral-dependent myocardium as measured by positron emission tomography. <i>European Heart Journal</i> , 1993, 14, 336-343.	2.2	37
138	Noninvasive Quantification of rCBF Using Positron Emission Tomography. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1996, 16, 311-319.	4.3	37
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