

# Steven Staelens

## List of Publications by Year in descending order

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Version: 2024-02-01

198  
papers

5,877  
citations

126708

33  
h-index

91712

69  
g-index

202  
all docs

202  
docs citations

202  
times ranked

6737  
citing authors

#	ARTICLE	IF	CITATIONS
1	GATE: a simulation toolkit for PET and SPECT. <i>Physics in Medicine and Biology</i> , 2004, 49, 4543-4561.	1.6	1,765
2	U-SPECT-II: An Ultra-High-Resolution Device for Molecular Small-Animal Imaging. <i>Journal of Nuclear Medicine</i> , 2009, 50, 599-605.	2.8	265
3	A20 (TNFAIP3) deficiency in myeloid cells triggers erosive polyarthritis resembling rheumatoid arthritis. <i>Nature Genetics</i> , 2011, 43, 908-912.	9.4	250
4	Ictal onset localization through connectivity analysis of intracranial EEG signals in patients with refractory epilepsy. <i>Epilepsia</i> , 2013, 54, 1409-1418.	2.6	116
5	Association of short-term cognitive decline and MCI-to-AD dementia conversion with CSF, MRI, amyloid- and 18F-FDG-PET imaging. <i>NeuroImage: Clinical</i> , 2019, 22, 101771.	1.4	108
6	Monte Carlo simulations of a scintillation camera using GATE: validation and application modelling. <i>Physics in Medicine and Biology</i> , 2003, 48, 3021-3042.	1.6	103
7	Influence of Skull Modeling Approaches on EEG Source Localization. <i>Brain Topography</i> , 2014, 27, 95-111.	0.8	88
8	The Cerebrospinal Fluid $A\beta_{42}/A\beta_{40}$ Ratio Improves Concordance with Amyloid-PET for Diagnosing Alzheimer's Disease in a Clinical Setting. <i>Journal of Alzheimer's Disease</i> , 2017, 60, 561-576.	1.2	82
9	Monte Carlo simulation in PET and SPECT instrumentation using GATE. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2004, 527, 180-189.	0.7	80
10	Validation of the GATE Monte Carlo simulation platform for modelling a CsI(Tl) scintillation camera dedicated to small-animal imaging. <i>Physics in Medicine and Biology</i> , 2004, 49, 271-285.	1.6	79
11	$^{89}\text{Zr}$ PET imaging of the pharmacokinetic behavior of medium and high molar mass $^{89}\text{Zr}$ -labeled poly(2-ethyl-2-oxazoline) in comparison to poly(ethylene glycol). <i>Journal of Controlled Release</i> , 2016, 235, 63-71.	4.8	76
12	Accurate epileptogenic focus localization through time-variant functional connectivity analysis of intracranial electroencephalographic signals. <i>NeuroImage</i> , 2011, 56, 1122-1133.	2.1	75
13	Brain inflammation in a chronic epilepsy model: Evolving pattern of the translocator protein during epileptogenesis. <i>Neurobiology of Disease</i> , 2015, 82, 526-539.	2.1	69
14	Performance evaluation of small-animal multipinhole $^{124}\text{I}$ SPECT scanners for mouse imaging. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2013, 40, 744-758.	3.3	68
15	Iterative CT Reconstruction Using Shearlet-Based Regularization. <i>IEEE Transactions on Nuclear Science</i> , 2013, 60, 3305-3317.	1.2	55
16	Comparison of Image Quality of Different Iodine Isotopes (I-123, I-124, and I-131). <i>Cancer Biotherapy and Radiopharmaceuticals</i> , 2007, 22, 423-430.	0.7	49
17	$^{18}\text{F}$ -PBR111 PET Imaging in Healthy Controls and Schizophrenia: Test-Retest Reproducibility and Quantification of Neuroinflammation. <i>Journal of Nuclear Medicine</i> , 2018, 59, 1267-1274.	2.8	47
18	Hybrid scatter correction applied to quantitative holmium-166 SPECT. <i>Physics in Medicine and Biology</i> , 2006, 51, 4773-4787.	1.6	44

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19	Imaging brain inflammation in epilepsy. <i>Neuroscience</i> , 2014, 279, 238-252.	1.1	44
20	Use of the GATE Monte Carlo package for dosimetry applications. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2006, 569, 335-340.	0.7	43
21	An Integrated Framework to Quantitatively Link Mouse-Specific Hemodynamics to Aneurysm Formation in Angiotensin II-infused ApoE $\alpha^{\prime}/\alpha^{\prime}$ mice. <i>Annals of Biomedical Engineering</i> , 2011, 39, 2430-2444.	1.3	43
22	Characterization of [ $^{99m}\text{Tc}$ ]Duramycin as a SPECT Imaging Agent for Early Assessment of Tumor Apoptosis. <i>Molecular Imaging and Biology</i> , 2015, 17, 838-847.	1.3	43
23	$^{99m}\text{Tc}$ -(CO) $_3$ His-Annexin A5 Micro-SPECT Demonstrates Increased Cell Death by Irinotecan During the Vascular Normalization Window Caused by Bevacizumab. <i>Journal of Nuclear Medicine</i> , 2011, 52, 1786-1794.	2.8	41
24	Replacing Vascular Corrosion Casting by In Vivo Micro-CT Imaging for Building 3D Cardiovascular Models in Mice. <i>Molecular Imaging and Biology</i> , 2011, 13, 78-86.	1.3	40
25	Development of a novel antibody-tetrazine conjugate for bioorthogonal pretargeting. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 7544-7551.	1.5	38
26	$^{99m}\text{Tc}$ -Duramycin SPECT Imaging of Early Tumor Response to Targeted Therapy: A Comparison with $^{18}\text{F}$ -FDG PET. <i>Journal of Nuclear Medicine</i> , 2017, 58, 665-670.	2.8	38
27	Fast and memory-efficient Monte Carlo-based image reconstruction for whole-body PET. <i>Medical Physics</i> , 2010, 37, 3667-3676.	1.6	37
28	Hippocampal deep brain stimulation induces decreased rCBF in the hippocampal formation of the rat. <i>NeuroImage</i> , 2010, 52, 55-61.	2.1	37
29	Towards a reproducible protocol for repetitive and semi-quantitative rat brain imaging with $^{18}\text{F}$ -FDG: Exemplified in a memantine pharmacological challenge. <i>NeuroImage</i> , 2014, 96, 276-287.	2.1	37
30	Kinetics of angiogenic changes in a new mouse model for hepatocellular carcinoma. <i>Molecular Cancer</i> , 2010, 9, 219.	7.9	36
31	Acceleration of GATE SPECT simulations. <i>Medical Physics</i> , 2008, 35, 1476-1485.	1.6	35
32	Performance Characterization of an Actively Cooled Repetitive Transcranial Magnetic Stimulation Coil for the Rat. <i>Neuromodulation</i> , 2016, 19, 459-468.	0.4	35
33	State-associated changes in longitudinal [ $^{18}\text{F}$ ]-PBR111 TSPO PET imaging of psychosis patients: Evidence for the accelerated ageing hypothesis?. <i>Brain, Behavior, and Immunity</i> , 2019, 77, 46-54.	2.0	35
34	Evaluation of 3D Monte Carlo-Based Scatter Correction for $^{201}\text{Tl}$ Cardiac Perfusion SPECT. <i>Journal of Nuclear Medicine</i> , 2007, 48, 637-644.	2.8	34
35	<i>N</i> -Acetylcysteine and MK-801-Induced Changes in Glutamate Levels Do Not Affect In Vivo Binding of Metabotropic Glutamate 5 Receptor Radioligand $^{11}\text{C}$ -ABP688 in Rat Brain. <i>Journal of Nuclear Medicine</i> , 2013, 54, 1954-1961.	2.8	34
36	$^{18}\text{F}$ -FDG PET, the early phases and the delivery rate of $^{18}\text{F}$ -AV45 PET as proxies of cerebral blood flow in Alzheimer's disease: Validation against $^{15}\text{O}$ -H $_2$ O PET. <i>Alzheimer's and Dementia</i> , 2019, 15, 1172-1182.	0.4	33

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37	A three-dimensional theoretical model incorporating spatial detection uncertainty in continuous detector PET. <i>Physics in Medicine and Biology</i> , 2004, 49, 2337-2350.	1.6	32
38	The Label Matters: $^{14}\text{C}$ PET Imaging of the Biodistribution of Low Molar Mass $^{89}\text{Zr}$ and $^{18}\text{F}$ -Labeled Poly(2-ethyl-2-oxazoline). <i>Biomacromolecules</i> , 2017, 18, 96-102.	2.6	32
39	Neuroimaging of Subacute Brain Inflammation and Microstructural Changes Predicts Long-Term Functional Outcome after Experimental Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2019, 36, 768-788.	1.7	32
40	Validation and noninvasive kinetic modeling of [ $^{11}\text{C}$ ]UCB-J PET imaging in mice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020, 40, 1351-1362.	2.4	32
41	Reconstruction of 2D PET data with Monte Carlo generated system matrix for generalized natural pixels. <i>Physics in Medicine and Biology</i> , 2006, 51, 3105-3125.	1.6	31
42	In vivo evaluation of $^{18}\text{F}$ -labeled TCO for pre-targeted PET imaging in the brain. <i>Nuclear Medicine and Biology</i> , 2014, 41, 513-523.	0.3	31
43	Early Prediction of Tumor Response to Treatment: Preclinical Validation of $^{99\text{m}}\text{Tc}$ -Duramycin. <i>Journal of Nuclear Medicine</i> , 2016, 57, 805-811.	2.8	30
44	Non-invasive PET imaging of brain inflammation at disease onset predicts spontaneous recurrent seizures and reflects comorbidities. <i>Brain, Behavior, and Immunity</i> , 2017, 61, 69-79.	2.0	30
45	Accurate Monte Carlo modelling of the back compartments of SPECT cameras. <i>Physics in Medicine and Biology</i> , 2011, 56, 87-104.	1.6	29
46	Validation of the Semiquantitative Static SUVR Method for $^{18}\text{F}$ -AV45 PET by Pharmacokinetic Modeling with an Arterial Input Function. <i>Journal of Nuclear Medicine</i> , 2017, 58, 1483-1489.	2.8	29
47	In vivo molecular neuroimaging of glucose utilization and its association with fibrillar amyloid- $\beta^2$ load in aged APPS1-21 mice. <i>Alzheimer's Research and Therapy</i> , 2015, 7, 76.	3.0	27
48	Longitudinal quantification of inflammation in the murine dextran sodium sulfate-induced colitis model using $^{14}\text{C}$ PET/CT1. <i>Inflammatory Bowel Diseases</i> , 2011, 17, 2058-2064.	0.9	26
49	Noninvasive Relative Quantification of [ $^{11}\text{C}$ ]ABP688 PET Imaging in Mice Versus an Input Function Measured Over an Arteriovenous Shunt. <i>Frontiers in Neurology</i> , 2018, 9, 516.	1.1	26
50	Fast hybrid SPECT simulation including efficient septal penetration modelling (SP-PSF). <i>Physics in Medicine and Biology</i> , 2007, 52, 3027-3043.	1.6	24
51	Resting-state functional MRI and [ $^{18}\text{F}$ ]-FDG PET demonstrate differences in neuronal activity between commonly used mouse strains. <i>NeuroImage</i> , 2016, 125, 571-577.	2.1	24
52	Evaluation of Small-Animal PET Outcome Measures to Detect Disease Modification Induced by BACE Inhibition in a Transgenic Mouse Model of Alzheimer Disease. <i>Journal of Nuclear Medicine</i> , 2017, 58, 1977-1983.	2.8	24
53	Dipole estimation errors due to not incorporating anisotropic conductivities in realistic head models for EEG source analysis. <i>Physics in Medicine and Biology</i> , 2009, 54, 6079-6093.	1.6	23
54	Fast simulation of yttrium- $^{90}\text{Y}$ bremsstrahlung photons with GATE. <i>Medical Physics</i> , 2010, 37, 2943-2950.	1.6	23

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55	Synthesis and Evaluation of a Zr-89-Labeled Monoclonal Antibody for Immuno-PET Imaging of Amyloid- $\beta$ Deposition in the Brain. <i>Molecular Imaging and Biology</i> , 2016, 18, 598-605.	1.3	23
56	Awake <sup>18</sup> F-FDG PET Imaging of Memantine-Induced Brain Activation and Test-Retest in Freely Running Mice. <i>Journal of Nuclear Medicine</i> , 2019, 60, 844-850.	2.8	23
57	Single-Photon Emission Computed Tomographic Imaging of the Early Time Course of Therapy-Induced Cell Death Using Technetium 99m Tricarbonyl His-Annexin A5 in a Colorectal Cancer Xenograft Model. <i>Molecular Imaging</i> , 2012, 11, 7290.2011.00034.	0.7	22
58	The Effects of Physiological and Methodological Determinants on <sup>18</sup> F-FDG Mouse Brain Imaging Exemplified in a Double Transgenic Alzheimer Model. <i>Molecular Imaging</i> , 2016, 15, 153601211562491.	0.7	21
59	Comparing planar image quality of rotating slit and parallel hole collimation: influence of system modeling. <i>Physics in Medicine and Biology</i> , 2008, 53, 1989-2002.	1.6	20
60	Influence of skull conductivity perturbations on EEG dipole source analysis. <i>Medical Physics</i> , 2010, 37, 4475-4484.	1.6	20
61	Fast and Accurate Rat Head Motion Tracking With Point Sources for Awake Brain PET. <i>IEEE Transactions on Medical Imaging</i> , 2017, 36, 1573-1582.	5.4	20
62	<sup>18</sup> F-Flortanidazole Hypoxia PET Holds Promise as a Prognostic and Predictive Imaging Biomarker in a Lung Cancer Xenograft Model Treated with Metformin and Radiotherapy. <i>Journal of Nuclear Medicine</i> , 2019, 60, 34-40.	2.8	20
63	In vitro and in vivo evaluation of [ <sup>99m</sup> Tc]-labeled tricarbonyl His-annexin A5 as an imaging agent for the detection of phosphatidylserine-expressing cells. <i>Nuclear Medicine and Biology</i> , 2010, 37, 965-975.	0.3	19
64	Small-animal repetitive transcranial magnetic stimulation combined with [ <sup>18</sup> F]-FDG microPET to quantify the neuromodulation effect in the rat brain. <i>Neuroscience</i> , 2014, 275, 436-443.	1.1	19
65	Accelerated high-frequency repetitive transcranial magnetic stimulation enhances motor activity in rats. <i>Neuroscience</i> , 2017, 347, 103-110.	1.1	19
66	PET imaging of freely moving interacting rats. <i>NeuroImage</i> , 2019, 191, 560-567.	2.1	19
67	An investigation of temporal regularization techniques for dynamic PET reconstructions using temporal splines. <i>Medical Physics</i> , 2007, 34, 1766-1778.	1.6	18
68	Cluster computing software for GATE simulations. <i>Medical Physics</i> , 2007, 34, 1926-1933.	1.6	18
69	Noninvasive Whole-Body Imaging of Phosphatidylethanolamine as a Cell Death Marker Using <sup>99m</sup> Tc-Duramycin During TNF-Induced SIRS. <i>Journal of Nuclear Medicine</i> , 2018, 59, 1140-1145.	2.8	18
70	Longitudinal Characterization of mGluR5 Using <sup>11</sup> C-ABP688 PET Imaging in the Q175 Mouse Model of Huntington Disease. <i>Journal of Nuclear Medicine</i> , 2018, 59, 1722-1727.	2.8	18
71	Synaptic Vesicle Glycoprotein 2A Is Affected in the Central Nervous System of Mice with Huntington Disease and in the Brain of a Human with Huntington Disease Postmortem. <i>Journal of Nuclear Medicine</i> , 2022, 63, 942-947.	2.8	18
72	Development of a ligand for in vivo imaging of mutant huntingtin in Huntington's disease. <i>Science Translational Medicine</i> , 2022, 14, eabm3682.	5.8	18

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73	System characteristics of SPECT with a slat collimated strip detector. <i>Physics in Medicine and Biology</i> , 2006, 51, 391-405.	1.6	17
74	Reconstruction for Gated Dynamic Cardiac PET Imaging Using a Tensor Product Spline Basis. <i>IEEE Transactions on Nuclear Science</i> , 2007, 54, 80-91.	1.2	17
75	MR-based spatial normalization improves [18F]MNI-659 PET regional quantification and detectability of disease effect in the Q175 mouse model of Huntington's disease. <i>PLoS ONE</i> , 2018, 13, e0206613.	1.1	17
76	Caspase-3 probes for PET imaging of apoptotic tumor response to anticancer therapy. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 4801-4824.	1.5	17
77	GATE simulations for optimization of pinhole imaging. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2006, 569, 359-363.	0.7	16
78	Physics process level discrimination of detections for GATE: Assessment of contamination in SPECT and spurious activity in PET. <i>Medical Physics</i> , 2009, 36, 1053-1060.	1.6	16
79	Effect of the static magnetic field of the MR-scanner on ERPs: Evaluation of visual, cognitive and motor potentials. <i>Clinical Neurophysiology</i> , 2010, 121, 672-685.	0.7	16
80	Synthesis and in vivo preclinical evaluation of an 18F labeled uPA inhibitor as a potential PET imaging agent. <i>Nuclear Medicine and Biology</i> , 2014, 41, 477-487.	0.3	16
81	Evaluation of [18F]CP18 as a Substrate-Based Apoptosis Imaging Agent for the Assessment of Early Treatment Response in Oncology. <i>Molecular Imaging and Biology</i> , 2017, 19, 560-569.	1.3	16
82	Improved stability of a novel fluorine-18 labeled TCO analogue for pretargeted PET imaging. <i>Nuclear Medicine and Biology</i> , 2019, 76-77, 36-42.	0.3	16
83	Single-photon emission computed tomographic imaging of the early time course of therapy-induced cell death using technetium 99m tricarbonyl His-annexin A5 in a colorectal cancer xenograft model. <i>Molecular Imaging</i> , 2012, 11, 135-47.	0.7	16
84	SPECT imaging of high energy isotopes and isotopes with high energy contaminants with rotating slat collimators. <i>Medical Physics</i> , 2009, 36, 4257-4267.	1.6	15
85	Colonoscopy and $\mu$ PET/CT are Valid Techniques to Monitor Inflammation in the Adoptive Transfer Colitis Model in Mice. <i>Inflammatory Bowel Diseases</i> , 2013, 19, 967-976.	0.9	15
86	Longitudinal Characterization of [18F]-FDG and [18F]-AV45 Uptake in the Double Transgenic TASTPM Mouse Model. <i>Journal of Alzheimer's Disease</i> , 2016, 55, 1537-1548.	1.2	15
87	Preclinical molecular imaging of glutamatergic and dopaminergic neuroreceptor kinetics in obsessive compulsive disorder. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2017, 77, 90-98.	2.5	15
88	In vitro and In vivo Assessment of Suitable Reference Region and Kinetic Modelling for the mGluR1 Radioligand [11C]ITDM in Mice. <i>Molecular Imaging and Biology</i> , 2020, 22, 854-863.	1.3	15
89	Validation of a spatially variant resolution model for small animal brain PET studies. <i>Biomedical Physics and Engineering Express</i> , 2020, 6, 045001.	0.6	15
90	Evolution of the GATE project: new results and developments. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2007, 172, 101-103.	0.5	14

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91	Quantifying the Effect of Repetitive Transcranial Magnetic Stimulation in the Rat Brain by $^{18}\text{F}$ SPECT CBF Scans. <i>Brain Stimulation</i> , 2013, 6, 554-562.	0.7	14
92	A simulation study on the impact of the blood flow-dependent component in [ $^{18}\text{F}$ ]AV45 SUVR in Alzheimer's disease. <i>PLoS ONE</i> , 2017, 12, e0189155.	1.1	14
93	Quantitative $^{18}\text{F}$ PET Imaging of Cerebral Glucose Metabolism and Amyloidosis in the TASTPM Double Transgenic Mouse Model of Alzheimer's Disease. <i>Current Alzheimer Research</i> , 2015, 12, 694-703.	0.7	14
94	Preclinical Evaluation of Monoclonal Antibody 14C5 for Targeting Pancreatic Cancer. <i>Cancer Biotherapy and Radiopharmaceuticals</i> , 2010, 25, 193-205.	0.7	13
95	Radiosynthesis and in vivo evaluation of [ $^{11}\text{C}$ ]-labelled pyrrole-2-carboxamide derivatives as novel radioligands for PET imaging of monoamine oxidase A. <i>Nuclear Medicine and Biology</i> , 2010, 37, 459-467.	0.3	13
96	Antitumour Efficacy of Two Paclitaxel Formulations for Hyperthermic Intraperitoneal Chemotherapy (HIPEC) in an In Vivo Rat Model. <i>Pharmaceutical Research</i> , 2011, 28, 1653-1660.	1.7	13
97	Rat Brain Normalization Templates for Robust Regional Analysis of [ $^{11}\text{C}$ ]ABP688 Positron Emission Tomography/Computed Tomography. <i>Molecular Imaging</i> , 2015, 14, 7290.2014.00037.	0.7	13
98	Efficacy Screening of <i>Gloriosa Superba</i> Extracts in a Murine Pancreatic Cancer Model Using $^{18}\text{F}$ -FDG PET/CT for Monitoring Treatment Response. <i>Cancer Biotherapy and Radiopharmaceuticals</i> , 2016, 31, 99-109.	0.7	13
99	Multiprobe molecular imaging of an NMDA receptor hypofunction rat model for glutamatergic dysfunction. <i>Psychiatry Research - Neuroimaging</i> , 2016, 248, 1-11.	0.9	13
100	The effect of occipital nerve field stimulation on the descending pain pathway in patients with fibromyalgia: a water PET and EEG imaging study. <i>BMC Neurology</i> , 2018, 18, 191.	0.8	13
101	Acute Ketamine Infusion in Rat Does Not Affect In Vivo [ $^{11}\text{C}$ ]ABP688 Binding to Metabotropic Glutamate Receptor Subtype 5. <i>Molecular Imaging</i> , 2018, 17, 153601211878863.	0.7	13
102	Removal of the ballistocardiographic artifact from EEG-fMRI data: a canonical correlation approach. <i>Physics in Medicine and Biology</i> , 2009, 54, 1673-1689.	1.6	12
103	Design of a high resolution scintillator based SPECT detector (SPECTatress). <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 648, S107-S110.	0.7	12
104	The [ $^{18}\text{F}$ ]FDG $^{18}\text{F}$ PET Readout of a Brain Activation Model to Evaluate the Metabotropic Glutamate Receptor 2 Positive Allosteric Modulator JNJ-42153605. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2014, 350, 375-386.	1.3	12
105	Deep Brain Stimulation of the Prelimbic Medial Prefrontal Cortex: Quantification of the Effect on Glucose Metabolism in the Rat Brain Using [ $^{18}\text{F}$ ]FDG MicroPET. <i>Molecular Imaging and Biology</i> , 2014, 16, 838-845.	1.3	12
106	Synthesis and preclinical evaluation of an $^{18}\text{F}$ labeled PDE7 inhibitor for PET neuroimaging. <i>Nuclear Medicine and Biology</i> , 2015, 42, 975-981.	0.3	12
107	Preclinical Evaluation of a Novel $^{18}\text{F}$ -Labeled dTCO-Amide Derivative for Bioorthogonal Pretargeted Positron Emission Tomography Imaging. <i>ACS Omega</i> , 2020, 5, 4449-4456.	1.6	12
108	Sapap3 deletion causes dynamic synaptic density abnormalities: a longitudinal [ $^{11}\text{C}$ ]UCB-J PET study in a model of obsessive-compulsive disorder-like behaviour. <i>EJNMMI Research</i> , 2020, 10, 140.	1.1	12

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109	Effect of cyclosporin A administration on the biodistribution and multipinhole $\hat{1}/4$ SPECT imaging of [123I]R91150 in rodent brain. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2009, 36, 446-453.	3.3	11
110	[18F]-FDG PET neuroimaging in rats with quinpirole-induced checking behavior as a model for obsessive compulsive disorder. <i>Psychiatry Research - Neuroimaging</i> , 2016, 257, 31-38.	0.9	11
111	Coadministration of a <i>Gloriosa superba</i> extract improves the in vivo antitumoural activity of gemcitabine in a murine pancreatic tumour model. <i>Phytomedicine</i> , 2016, 23, 1434-1440.	2.3	11
112	Preclinical evaluation of [ <sup>111</sup> In]MICA $\alpha$ 401, an activity $\alpha$ -based probe for SPECT imaging of <i>i</i> in vivo <i>u</i> PA activity. <i>Contrast Media and Molecular Imaging</i> , 2016, 11, 448-458.	0.4	11
113	Baseline [18F]FMISO $\hat{1}/4$ PET as a Predictive Biomarker for Response to HIF-1 $\hat{1}\pm$ Inhibition Combined with 5-FU Chemotherapy in a Human Colorectal Cancer Xenograft Model. <i>Molecular Imaging and Biology</i> , 2016, 18, 606-616.	1.3	11
114	Markerless rat head motion tracking using structured light for brain PET imaging of unrestrained awake small animals. <i>Physics in Medicine and Biology</i> , 2017, 62, 1744-1758.	1.6	11
115	[ <sup>99m</sup> Tc]duramycin for cell death imaging: Impact of kit formulation, purification and species difference. <i>Nuclear Medicine and Biology</i> , 2018, 56, 1-9.	0.3	11
116	Effects of metformin on tumor hypoxia and radiotherapy efficacy: a [18F]HX4 PET imaging study in colorectal cancer xenografts. <i>EJNMMI Research</i> , 2019, 9, 74.	1.1	11
117	Translation of Preclinical PET Imaging Findings: Challenges and Motion Correction to Overcome the Confounding Effect of Anesthetics. <i>Frontiers in Medicine</i> , 2021, 8, 753977.	1.2	11
118	GATE: Improving the computational efficiency. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2006, 569, 341-345.	0.7	10
119	Neural Substrates of Conversion Deafness in a Cochlear Implant Patient. <i>Otology and Neurotology</i> , 2014, 35, 1780-1784.	0.7	10
120	Use of a Ray-Based Reconstruction Algorithm to Accurately Quantify Preclinical MicroSPECT Images. <i>Molecular Imaging</i> , 2014, 13, 7290.2014.00007.	0.7	10
121	Absence of Cardiovascular Manifestations in a Haploinsufficient <i>Tgfr1</i> Mouse Model. <i>PLoS ONE</i> , 2014, 9, e89749.	1.1	9
122	TSPO PET upregulation predicts epileptic phenotype at disease onset independently from chronic TSPO expression in a rat model of temporal lobe epilepsy. <i>NeuroImage: Clinical</i> , 2021, 31, 102701.	1.4	9
123	The geometric transfer function for a slat collimator mounted on a strip detector. <i>IEEE Transactions on Nuclear Science</i> , 2005, 52, 708-713.	1.2	8
124	In vivo evaluation of [123I]-4-(2-(bis(4-fluorophenyl)methoxy)ethyl)-1-(4-iodobenzyl)piperidine, an iodinated SPECT tracer for imaging the P-gp transporter. <i>Nuclear Medicine and Biology</i> , 2010, 37, 469-477.	0.3	8
125	Low-Dose Micro-CT Imaging for Vascular Segmentation and Analysis Using Sparse-View Acquisitions. <i>PLoS ONE</i> , 2013, 8, e68449.	1.1	8
126	Preclinical Comparison of the Amyloid- $\hat{1}^2$ Radioligands [11C]Pittsburgh compound B and [18F]florbetaben in Aged APPS1-21 and BRI1-42 Mouse Models of Cerebral Amyloidosis. <i>Molecular Imaging and Biology</i> , 2015, 17, 688-696.	1.3	8



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127	Evaluation of [ <sup>18</sup> F]BR420 and [ <sup>18</sup> F]BR351 as radiotracers for MMP $\alpha$ 9 imaging in colorectal cancer. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2017, 60, 69-79.	0.5	8
128	Elevated Type 1 Metabotropic Glutamate Receptor Availability in a Mouse Model of Huntington $\alpha$ ™s Disease: a Longitudinal PET Study. <i>Molecular Neurobiology</i> , 2020, 57, 2038-2047.	1.9	8
129	Progression of obsessive compulsive disorder-like grooming in Sapap3 knockout mice: A longitudinal [ <sup>11</sup> C]ABP688 PET study. <i>Neuropharmacology</i> , 2020, 177, 108160.	2.0	8
130	Motion Dependent and Spatially Variant Resolution Modeling for PET Rigid Motion Correction. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 2518-2530.	5.4	8
131	Longitudinal preclinical evaluation of the novel radioligand [ <sup>11</sup> C]CHDI-626 for PET imaging of mutant huntingtin aggregates in Huntington $\alpha$ ™s disease. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2022, 49, 1166-1175.	3.3	8
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