

Steven Staelens

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

183
papers

4,477
citations

29
h-index

60
g-index

202
ext. papers

5,305
ext. citations

5.1
avg, IF

5
L-index

#	Paper	IF	Citations
183	GATE: a simulation toolkit for PET and SPECT. <i>Physics in Medicine and Biology</i> , 2004 , 49, 4543-61	3.8	1239
182	U-SPECT-II: An Ultra-High-Resolution Device for Molecular Small-Animal Imaging. <i>Journal of Nuclear Medicine</i> , 2009 , 50, 599-605	8.9	238
181	A20 (TNFAIP3) deficiency in myeloid cells triggers erosive polyarthritis resembling rheumatoid arthritis. <i>Nature Genetics</i> , 2011 , 43, 908-12	36.3	216
180	Ictal-onset localization through connectivity analysis of intracranial EEG signals in patients with refractory epilepsy. <i>Epilepsia</i> , 2013 , 54, 1409-18	6.4	90
179	Monte Carlo simulations of a scintillation camera using GATE: validation and application modelling. <i>Physics in Medicine and Biology</i> , 2003 , 48, 3021-42	3.8	88
178	Influence of skull modeling approaches on EEG source localization. <i>Brain Topography</i> , 2014 , 27, 95-111	4.3	70
177	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, 271-85	3.8	66
176	Accurate epileptogenic focus localization through time-variant functional connectivity analysis of intracranial electroencephalographic signals. <i>NeuroImage</i> , 2011 , 56, 1122-33	7.9	64
175	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	1.2	63
174	Association of short-term cognitive decline and MCI-to-AD dementia conversion with CSF, MRI, amyloid- and F-FDG-PET imaging. <i>NeuroImage: Clinical</i> , 2019 , 22, 101771	5.3	62
173	BET imaging of the pharmacokinetic behavior of medium and high molar mass (89)Zr-labeled poly(2-ethyl-2-oxazoline) in comparison to poly(ethylene glycol). <i>Journal of Controlled Release</i> , 2016 , 235, 63-71	11.7	62
172	Performance evaluation of small-animal multipinhole SPECT scanners for mouse imaging. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2013 , 40, 744-58	8.8	60
171	Brain inflammation in a chronic epilepsy model: Evolving pattern of the translocator protein during epileptogenesis. <i>Neurobiology of Disease</i> , 2015 , 82, 526-539	7.5	57
170	The Cerebrospinal Fluid A β -42/A β -40 Ratio Improves Concordance with Amyloid-PET for Diagnosing Alzheimer's Disease in a Clinical Setting. <i>Journal of Alzheimers Disease</i> , 2017 , 60, 561-576	4.3	54
169	Iterative CT Reconstruction Using Shearlet-Based Regularization. <i>IEEE Transactions on Nuclear Science</i> , 2013 , 60, 3305-3317	1.7	50
168	Comparison of image quality of different iodine isotopes (I-123, I-124, and I-131). <i>Cancer Biotherapy and Radiopharmaceuticals</i> , 2007 , 22, 423-30	3.9	45
167	Hybrid scatter correction applied to quantitative holmium-166 SPECT. <i>Physics in Medicine and Biology</i> , 2006 , 51, 4773-87	3.8	41

166	Imaging brain inflammation in epilepsy. <i>Neuroscience</i> , 2014 , 279, 238-52	3.9	40
165	An integrated framework to quantitatively link mouse-specific hemodynamics to aneurysm formation in angiotensin II-infused ApoE ^{-/-} mice. <i>Annals of Biomedical Engineering</i> , 2011 , 39, 2430-44	4.7	40
164	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	3.8	36
163	Characterization of [(99m)Tc]Duramycin as a SPECT Imaging Agent for Early Assessment of Tumor Apoptosis. <i>Molecular Imaging and Biology</i> , 2015 , 17, 838-47	3.8	35
162	Hippocampal deep brain stimulation induces decreased rCBF in the hippocampal formation of the rat. <i>NeuroImage</i> , 2010 , 52, 55-61	7.9	35
161	Towards a reproducible protocol for repetitive and semi-quantitative rat brain imaging with (18) F-FDG: exemplified in a memantine pharmacological challenge. <i>NeuroImage</i> , 2014 , 96, 276-87	7.9	34
160	(99m)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, 1786-94	8.9	34
159	Fast and memory-efficient Monte Carlo-based image reconstruction for whole-body PET. <i>Medical Physics</i> , 2010 , 37, 3667-76	4.4	33
158	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	8.9	32
157	Tc-Duramycin SPECT Imaging of Early Tumor Response to Targeted Therapy: A Comparison with F-FDG PET. <i>Journal of Nuclear Medicine</i> , 2017 , 58, 665-670	8.9	32
156	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	1.2	32
155	N-acetylcysteine- and MK-801-induced changes in glutamate levels do not affect in vivo binding of metabotropic glutamate 5 receptor radioligand 11C-ABP688 in rat brain. <i>Journal of Nuclear Medicine</i> , 2013 , 54, 1954-61	8.9	31
154	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	16.6	28
153	Early Prediction of Tumor Response to Treatment: Preclinical Validation of 99mTc-Duramycin. <i>Journal of Nuclear Medicine</i> , 2016 , 57, 805-11	8.9	28
152	Reconstruction of 2D PET data with Monte Carlo generated system matrix for generalized natural pixels. <i>Physics in Medicine and Biology</i> , 2006 , 51, 3105-25	3.8	28
151	Kinetics of angiogenic changes in a new mouse model for hepatocellular carcinoma. <i>Molecular Cancer</i> , 2010 , 9, 219	42.1	27
150	Acceleration of GATE SPECT simulations. <i>Medical Physics</i> , 2008 , 35, 1476-85	4.4	27
149	A three-dimensional theoretical model incorporating spatial detection uncertainty in continuous detector PET. <i>Physics in Medicine and Biology</i> , 2004 , 49, 2337-50	3.8	27

148	In vivo evaluation of (18)F-labeled TCO for pre-targeted PET imaging in the brain. <i>Nuclear Medicine and Biology</i> , 2014 , 41, 513-23	2.1	25
147	The Label Matters: PET Imaging of the Biodistribution of Low Molar Mass Zr and F-Labeled Poly(2-ethyl-2-oxazoline). <i>Biomacromolecules</i> , 2017 , 18, 96-102	6.9	24
146	Longitudinal quantification of inflammation in the murine dextran sodium sulfate-induced colitis model using PET/CT. <i>Inflammatory Bowel Diseases</i> , 2011 , 17, 2058-64	4.5	24
145	Accurate Monte Carlo modelling of the back compartments of SPECT cameras. <i>Physics in Medicine and Biology</i> , 2011 , 56, 87-104	3.8	24
144	State-associated changes in longitudinal [F]-PBR111 TSPO PET imaging of psychosis patients: Evidence for the accelerated ageing hypothesis?. <i>Brain, Behavior, and Immunity</i> , 2019 , 77, 46-54	16.6	24
143	Validation of the Semiquantitative Static SUVR Method for F-AV45 PET by Pharmacokinetic Modeling with an Arterial Input Function. <i>Journal of Nuclear Medicine</i> , 2017 , 58, 1483-1489	8.9	23
142	In vivo molecular neuroimaging of glucose utilization and its association with fibrillar amyloid- β load in aged APPPS1-21 mice. <i>Alzheimers Research and Therapy</i> , 2015 , 7, 76	9	23
141	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, 6079-93	3.8	23
140	Evaluation of 3D Monte Carlo-based scatter correction for 201Tl cardiac perfusion SPECT. <i>Journal of Nuclear Medicine</i> , 2007 , 48, 637-44	8.9	23
139	Performance Characterization of an Actively Cooled Repetitive Transcranial Magnetic Stimulation Coil for the Rat. <i>Neuromodulation</i> , 2016 , 19, 459-68	3.1	23
138	Fast simulation of yttrium-90 bremsstrahlung photons with GATE. <i>Medical Physics</i> , 2010 , 37, 2943-50	4.4	22
137	Development of a novel antibody-tetrazine conjugate for bioorthogonal pretargeting. <i>Organic and Biomolecular Chemistry</i> , 2016 , 14, 7544-51	3.9	21
136	Fast hybrid SPECT simulation including efficient septal penetration modelling (SP-PSF). <i>Physics in Medicine and Biology</i> , 2007 , 52, 3027-43	3.8	21
135	Validation and noninvasive kinetic modeling of [C]UCB-J PET imaging in mice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020 , 40, 1351-1362	7.3	21
134	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	3.7	19
133	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	8.9	18
132	Synthesis and Evaluation of a Zr-89-Labeled Monoclonal Antibody for Immuno-PET Imaging of Amyloid- β Deposition in the Brain. <i>Molecular Imaging and Biology</i> , 2016 , 18, 598-605	3.8	18
131	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	5.4	18

130	Resting-state functional MRI and [18F]-FDG PET demonstrate differences in neuronal activity between commonly used mouse strains. <i>NeuroImage</i> , 2016 , 125, 571-577	7.9	17
129	Noninvasive Relative Quantification of [C]ABP688 PET Imaging in Mice Versus an Input Function Measured Over an Arteriovenous Shunt. <i>Frontiers in Neurology</i> , 2018 , 9, 516	4.1	17
128	In vitro and in vivo evaluation of [99mTc]-labeled tricarbonyl His-annexin A5 as an imaging agent for the detection of phosphatidylserine-expressing cells. <i>Nuclear Medicine and Biology</i> , 2010 , 37, 965-75	2.1	17
127	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	3.8	17
126	F-FDG PET, the early phases and the delivery rate of F-AV45 PET as proxies of cerebral blood flow in Alzheimer's disease: Validation against O-HO PET. <i>Alzheimers and Dementia</i> , 2019 , 15, 1172-1182	1.2	16
125	System characteristics of SPECT with a slit collimated strip detector. <i>Physics in Medicine and Biology</i> , 2006 , 51, 391-405	3.8	16
124	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	1.2	16
123	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	3.7	16
122	Small-animal repetitive transcranial magnetic stimulation combined with [18F]-FDG microPET to quantify the neuromodulation effect in the rat brain. <i>Neuroscience</i> , 2014 , 275, 436-43	3.9	15
121	Influence of skull conductivity perturbations on EEG dipole source analysis. <i>Medical Physics</i> , 2010 , 37, 4475-84	4.4	15
120	An investigation of temporal regularization techniques for dynamic PET reconstructions using temporal splines. <i>Medical Physics</i> , 2007 , 34, 1766-78	4.4	15
119	The Effects of Physiological and Methodological Determinants on 18F-FDG Mouse Brain Imaging Exemplified in a Double Transgenic Alzheimer Model. <i>Molecular Imaging</i> , 2016 , 15,	3.7	15
118	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	5.5	14
117	Evaluation of [F]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	3.8	14
116	Noninvasive Whole-Body Imaging of Phosphatidylethanolamine as a Cell Death Marker Using Tc-Duramycin During TNF-Induced SIRS. <i>Journal of Nuclear Medicine</i> , 2018 , 59, 1140-1145	8.9	14
115	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, 672-85	4.3	14
114	Physics process level discrimination of detections for GATE: assessment of contamination in SPECT and spurious activity in PET. <i>Medical Physics</i> , 2009 , 36, 1053-60	4.4	14
113	Reconstruction for Gated Dynamic Cardiac PET Imaging Using a Tensor Product Spline Basis. <i>IEEE Transactions on Nuclear Science</i> , 2007 , 54, 80-91	1.7	14

112	Accelerated high-frequency repetitive transcranial magnetic stimulation enhances motor activity in rats. <i>Neuroscience</i> , 2017 , 347, 103-110	3.9	13
111	Caspase-3 probes for PET imaging of apoptotic tumor response to anticancer therapy. <i>Organic and Biomolecular Chemistry</i> , 2019 , 17, 4801-4824	3.9	13
110	PET imaging of freely moving interacting rats. <i>NeuroImage</i> , 2019 , 191, 560-567	7.9	13
109	Longitudinal Characterization of [18F]-FDG and [18F]-AV45 Uptake in the Double Transgenic TASTPM Mouse Model. <i>Journal of Alzheimer's Disease</i> , 2017 , 55, 1537-1548	4.3	13
108	Colonoscopy and μ PET/CT are valid techniques to monitor inflammation in the adoptive transfer colitis model in mice. <i>Inflammatory Bowel Diseases</i> , 2013 , 19, 967-76	4.5	13
107	SPECT imaging of high energy isotopes and isotopes with high energy contaminants with rotating slat collimators. <i>Medical Physics</i> , 2009 , 36, 4257-67	4.4	13
106	Cluster computing software for GATE simulations. <i>Medical Physics</i> , 2007 , 34, 1926-33	4.4	13
105	Quantitative 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	3	13
104	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	11.7	12
103	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	8.9	12
102	Deep brain stimulation of the prelimbic medial prefrontal cortex: quantification of the effect on glucose metabolism in the rat brain using [(18) F]FDG microPET. <i>Molecular Imaging and Biology</i> , 2014 , 16, 838-45	3.8	12
101	Synthesis and in vivo preclinical evaluation of an (18)F labeled uPA inhibitor as a potential PET imaging agent. <i>Nuclear Medicine and Biology</i> , 2014 , 41, 477-87	2.1	12
100	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	1.2	12
99	Preclinical evaluation of monoclonal antibody 14C5 for targeting pancreatic cancer. <i>Cancer Biotherapy and Radiopharmaceuticals</i> , 2010 , 25, 193-205	3.9	12
98	Radiosynthesis and in vivo evaluation of [11C]-labelled pyrrole-2-carboxamide derivatives as novel radioligands for PET imaging of monoamine oxidase A. <i>Nuclear Medicine and Biology</i> , 2010 , 37, 459-67	2.1	12
97	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	3.7	12
96	Preclinical evaluation of [In]MICA-401, an activity-based probe for SPECT imaging of in vivo uPA activity. <i>Contrast Media and Molecular Imaging</i> , 2016 , 11, 448-458	3.2	11
95	Multiprobe molecular imaging of an NMDA receptor hypofunction rat model for glutamatergic dysfunction. <i>Psychiatry Research - Neuroimaging</i> , 2016 , 248, 1-11	2.9	11

94	Quantifying the effect of repetitive transcranial magnetic stimulation in the rat brain by SPECT CBF scans. <i>Brain Stimulation</i> , 2013 , 6, 554-62	5.1	11
93	Antitumour efficacy of two paclitaxel formulations for hyperthermic intraperitoneal chemotherapy (HIPEC) in an in vivo rat model. <i>Pharmaceutical Research</i> , 2011 , 28, 1653-60	4.5	11
92	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	3.1	11
91	Acute Ketamine Infusion in Rat Does Not Affect In Vivo [C]ABP688 Binding to Metabotropic Glutamate Receptor Subtype 5. <i>Molecular Imaging</i> , 2018 , 17, 1536012118788636	3.7	11
90	Synthesis and preclinical evaluation of an 18F labeled PDE7 inhibitor for PET neuroimaging. <i>Nuclear Medicine and Biology</i> , 2015 , 42, 975-81	2.1	10
89	Baseline [(18)F]FMISO PET as a Predictive Biomarker for Response to HIF-1 β inhibition Combined with 5-FU Chemotherapy in a Human Colorectal Cancer Xenograft Model. <i>Molecular Imaging and Biology</i> , 2016 , 18, 606-16	3.8	10
88	Neural substrates of conversion deafness in a cochlear implant patient: a molecular imaging study using H $_2$ O-PET. <i>Otology and Neurotology</i> , 2014 , 35, 1780-4	2.6	10
87	The [18F]FDG 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, 375-86	4.7	10
86	Effect of cyclosporin A administration on the biodistribution and multipinhole muSPECT imaging of [123I]R91150 in rodent brain. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2009 , 36, 446-53	8.8	10
85	Removal of the ballistocardiographic artifact from EEG-fMRI data: a canonical correlation approach. <i>Physics in Medicine and Biology</i> , 2009 , 54, 1673-89	3.8	10
84	In vitro and In vivo Assessment of Suitable Reference Region and Kinetic Modelling for the mGluR1 Radioligand [C]ITDM in Mice. <i>Molecular Imaging and Biology</i> , 2020 , 22, 854-863	3.8	10
83	Awake 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	8.9	10
82	Longitudinal Characterization of mGluR5 Using C-ABP688 PET Imaging in the Q175 Mouse Model of Huntington Disease. <i>Journal of Nuclear Medicine</i> , 2018 , 59, 1722-1727	8.9	10
81	Absence of cardiovascular manifestations in a haploinsufficient Tgfr1 mouse model. <i>PLoS ONE</i> , 2014 , 9, e89749	3.7	9
80	Evolution of the GATE project: new results and developments. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2007 , 172, 101-103		9
79	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	1.2	9
78	[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	2.9	9
77	Efficacy Screening of Gloriosa Superba Extracts in a Murine Pancreatic Cancer Model Using (18)F-FDG PET/CT for Monitoring Treatment Response. <i>Cancer Biotherapy and Radiopharmaceuticals</i> , 2016 , 31, 99-109	3.9	9

76	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	3.8	8
75	[Tc]duramycin for cell death imaging: Impact of kit formulation, purification and species difference. <i>Nuclear Medicine and Biology</i> , 2018 , 56, 1-9	2.1	8
74	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	6.5	8
73	Use of a Ray-Based Reconstruction Algorithm to Accurately Quantify Preclinical MicroSPECT Images. <i>Molecular Imaging</i> , 2014 , 13, 7290.2014.00007	3.7	8
72	A simulation study on the impact of the blood flow-dependent component in [18F]AV45 SUVR in Alzheimer's disease. <i>PLoS ONE</i> , 2017 , 12, e0189155	3.7	8
71	Preclinical Comparison of the Amyloid- β Radioligands [(11C)Pittsburgh compound B and [(18F]florbetaben in Aged APPPS1-21 and BRI1-42 Mouse Models of Cerebral Amyloidosis. <i>Molecular Imaging and Biology</i> , 2015 , 17, 688-96	3.8	7
70	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	2.1	7
69	The geometric transfer function for a slat collimator mounted on a strip detector. <i>IEEE Transactions on Nuclear Science</i> , 2005 , 52, 708-713	1.7	7
68	Optimization of temporal basis functions in dynamic PET imaging. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2006 , 569, 425-428	1.2	7
67	Continuous flushing of the bladder in rodents reduces artifacts and improves quantification in molecular imaging. <i>Molecular Imaging</i> , 2014 , 13,	3.7	6
66	Rat brain normalization templates for robust regional analysis of [11C]ABP688 positron emission tomography/computed tomography. <i>Molecular Imaging</i> , 2014 , 13,	3.7	6
65	Measurement of porto-systemic shunting in mice by novel three-dimensional micro-single photon emission computed tomography imaging enabling longitudinal follow-up. <i>Liver International</i> , 2010 , 30, 1211-20	7.9	6
64	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, 469-77	2.1	6
63	Subspace electrode selection methodology for the reduction of the effect of uncertain conductivity values in the EEG dipole localization: a simulation study using a patient-specific head model. <i>Physics in Medicine and Biology</i> , 2012 , 57, 1963-86	3.8	6
62	Iterative CT reconstruction using shearlet-based regularization 2012 ,		6
61	Characterization of the ringing artifacts in rotator-based reconstruction with Monte Carlo-based resolution compensation for PET. <i>Medical Physics</i> , 2010 , 37, 4648-60	4.4	6
60	Sapap3 deletion causes dynamic synaptic density abnormalities: a longitudinal [C]UCB-J PET study in a model of obsessive-compulsive disorder-like behaviour. <i>EJNMMI Research</i> , 2020 , 10, 140	3.6	6
59	Neural Substrates of Tinnitus in an Auditory Brainstem Implant Patient: A Preliminary Molecular Imaging Study Using H2 15 O-PET Including a 5-year Follow-up of Auditory Performance and Tinnitus Perception. <i>Otology and Neurotology</i> , 2020 , 41, e15-e20	2.6	6

58	Evaluation of [¹⁸ F]BR420 and [¹⁸ F]BR351 as radiotracers for MMP-9 imaging in colorectal cancer. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2017 , 60, 69-79	1.9	5
57	Effects of metformin on tumor hypoxia and radiotherapy efficacy: a [¹⁸ F]HX4 PET imaging study in colorectal cancer xenografts. <i>EJNMMI Research</i> , 2019 , 9, 74	3.6	5
56	Progression of obsessive compulsive disorder-like grooming in Sapap3 knockout mice: A longitudinal [¹¹ C]ABP688 PET study. <i>Neuropharmacology</i> , 2020 , 177, 108160	5.5	5
55	Motion Dependent and Spatially Variant Resolution Modeling for PET Rigid Motion Correction. <i>IEEE Transactions on Medical Imaging</i> , 2020 , 39, 2518-2530	11.7	5
54	Preclinical Evaluation of a Novel F-Labeled dTCO-Amide Derivative for Bioorthogonal Pretargeted Positron Emission Tomography Imaging. <i>ACS Omega</i> , 2020 , 5, 4449-4456	3.9	5
53	Decreased levels of active uPA and KLK8 assessed by [¹¹¹ In]MICA-401 binding correlate with the seizure burden in an animal model of temporal lobe epilepsy. <i>Epilepsia</i> , 2017 , 58, 1615-1625	6.4	5
52	Prelimbic Cortical Injections of a GABA Agonist and Antagonist: In Vivo Quantification of the Effect in the Rat Brain Using [(18)F] FDG MicroPET. <i>Molecular Imaging and Biology</i> , 2015 , 17, 856-64	3.8	5
51	Low-dose micro-CT imaging for vascular segmentation and analysis using sparse-view acquisitions. <i>PLoS ONE</i> , 2013 , 8, e68449	3.7	5
50	Automated identification of ERP peaks through Dynamic Time Warping: an application to developmental dyslexia. <i>Clinical Neurophysiology</i> , 2009 , 120, 1819-27	4.3	5
49	Elevated Type 1 Metabotropic Glutamate Receptor Availability in a Mouse Model of Huntington's Disease: a Longitudinal PET Study. <i>Molecular Neurobiology</i> , 2020 , 57, 2038-2047	6.2	5
48	Synaptic vesicle glycoprotein 2A is affected in the CNS of Huntington's Disease mice and post-mortem human HD brain. <i>Journal of Nuclear Medicine</i> , 2021 ,	8.9	5
47	Characterization of an Orthotopic Colorectal Cancer Mouse Model and Its Feasibility for Accurate Quantification in Positron Emission Tomography. <i>Molecular Imaging and Biology</i> , 2017 , 19, 762-771	3.8	4
46	Longitudinal follow-up of ascending versus abdominal aortic aneurysm formation in angiotensin II-infused ApoE ^{-/-} mice. <i>Artery Research</i> , 2014 , 8, 16	2.2	4
45	In Vivo Preclinical Molecular Imaging of Repeated Exposure to an α -methyl-d-aspartate Antagonist and a Glutaminase Inhibitor as Potential Glutamatergic Modulators. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2019 , 368, 382-390	4.7	4
44	How to Modulate Tumor Hypoxia for Preclinical In Vivo Imaging Research. <i>Contrast Media and Molecular Imaging</i> , 2018 , 2018, 4608186	3.2	4
43	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	5.3	4
42	[¹⁸ F]ZCDD083: A PFKFB3-Targeted PET Tracer for Atherosclerotic Plaque Imaging. <i>ACS Medicinal Chemistry Letters</i> , 2020 , 11, 933-939	4.3	3
41	O20705: Investigations of brain glucose utilization in three transgenic mouse strains that develop neuropathological features of Alzheimer's disease 2013 , 9, P329-P329		3

40	Fast 3D iterative image reconstruction for SPECT with rotating slat collimators. <i>Physics in Medicine and Biology</i> , 2009 , 54, 715-29	3.8	3
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