Steven Staelens

List of Publications by Year in Descending Order

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	Development of a ligand for in vivo imaging of mutant huntingtin in Huntington's disease.. *Science Translational Medicine*, **2022**, 14, eabm3682	17.5	2
182	Validation, kinetic modeling, and test-retest reproducibility of [F]SynVesT-1 for PET imaging of synaptic vesicle glycoprotein 2A in mice.. *Journal of Cerebral Blood Flow and Metabolism*, **2022**, 271678X221101648	7.3	0
181	The Use of Small Animal Molecular Imaging (PET) Exemplified in a Neurobiological Pathology **2021**, 57-92		
180	Translation of Preclinical PET Imaging Findings: Challenges and Motion Correction to Overcome the Confounding Effect of Anesthetics. *Frontiers in Medicine*, **2021**, 8, 753977	4.9	0
179	Longitudinal preclinical evaluation of the novel radioligand [11C]CHDI-626 for PET imaging of mutant huntingtin aggregates in Huntington's disease. *European Journal of Nuclear Medicine and Molecular Imaging*, **2021**, 49, 1166	8.8	1
178	Early Changes in [F]FDG Uptake as a Readout for PI3K/Akt/mTOR Targeted Drugs in HER-2-Positive Cancer Xenografts. *Molecular Imaging*, **2021**, 2021, 5594514	3.7	1
177	Estimation of the net influx rate K and the cerebral metabolic rate of glucose MR using a single static [F]FDG PET scan in rats. *NeuroImage*, **2021**, 233, 117961	7.9	1
176	Kinetic Modelling and Test-Retest Reproducibility for the Dopamine DR Radioligand [C]SCH23390 in Healthy and Diseased Mice. *Molecular Imaging and Biology*, **2021**, 23, 208-219	3.8	3
175	Synaptic vesicle glycoprotein 2A is affected in the CNS of Huntington's Disease mice and post-mortem human HD brain. *Journal of Nuclear Medicine*, **2021**,	8.9	5
174	TSPO PET upregulation predicts epileptic phenotype at disease onset independently from chronic TSPO expression in a rat model of temporal lobe epilepsy. *NeuroImage: Clinical*, **2021**, 31, 102701	5.3	4
173	Progression of obsessive compulsive disorder-like grooming in Sapap3 knockout mice: A longitudinal [C]ABP688 PET study. *Neuropharmacology*, **2020**, 177, 108160	5.5	5
172	Motion Dependent and Spatially Variant Resolution Modeling for PET Rigid Motion Correction. *IEEE Transactions on Medical Imaging*, **2020**, 39, 2518-2530	11.7	5
171	Preclinical Evaluation of a Novel F-Labeled dTCO-Amide Derivative for Bioorthogonal Pretargeted Positron Emission Tomography Imaging. *ACS Omega*, **2020**, 5, 4449-4456	3.9	5
170	[F]ZCDD083: A PFKFB3-Targeted PET Tracer for Atherosclerotic Plaque Imaging. *ACS Medicinal Chemistry Letters*, **2020**, 11, 933-939	4.3	3
169	Sapap3 deletion causes dynamic synaptic density abnormalities: a longitudinal [C]UCB-J PET study in a model of obsessive-compulsive disorder-like behaviour. *EJNMMI Research*, **2020**, 10, 140	3.6	6
168	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. *Otology and Neurotology*, **2020**, 41, e15-e20	2.6	6
167	Elevated Type 1 Metabotropic Glutamate Receptor Availability in a Mouse Model of Huntington's Disease: a Longitudinal PET Study. *Molecular Neurobiology*, **2020**, 57, 2038-2047	6.2	5

166	In vitro and In vivo Assessment of Suitable Reference Region and Kinetic Modelling for the mGluR1 Radioligand [C]ITDM in Mice. *Molecular Imaging and Biology*, **2020**, 22, 854-863	3.8	10
165	Validation of a spatially variant resolution model for small animal brain PET studies. *Biomedical Physics and Engineering Express*, **2020**, 6, 045001	1.5	3
164	Validation and noninvasive kinetic modeling of [C]UCB-J PET imaging in mice. *Journal of Cerebral Blood Flow and Metabolism*, **2020**, 40, 1351-1362	7.3	21
163	Effects of metformin on tumor hypoxia and radiotherapy efficacy: a [F]HX4 PET imaging study in colorectal cancer xenografts. *EJNMMI Research*, **2019**, 9, 74	3.6	5
162	Caspase-3 probes for PET imaging of apoptotic tumor response to anticancer therapy. *Organic and Biomolecular Chemistry*, **2019**, 17, 4801-4824	3.9	13
161	PET imaging of freely moving interacting rats. *NeuroImage*, **2019**, 191, 560-567	7.9	13
160	Neuroreceptor kinetics in rats repeatedly exposed to quinpirole as a model for OCD. *PLoS ONE*, **2019**, 14, e0213313	3.7	1
159	Association of short-term cognitive decline and MCI-to-AD dementia conversion with CSF, MRI, amyloid- and F-FDG-PET imaging. *NeuroImage: Clinical*, **2019**, 22, 101771	5.3	62
158	Neuroimaging of Subacute Brain Inflammation and Microstructural Changes Predicts Long-Term Functional Outcome after Experimental Traumatic Brain Injury. *Journal of Neurotrauma*, **2019**, 36, 768-788	5.4	18
157	F-Flortanidazole Hypoxia PET Holds Promise as a Prognostic and Predictive Imaging Biomarker in a Lung Cancer Xenograft Model Treated with Metformin and Radiotherapy. *Journal of Nuclear Medicine*, **2019**, 60, 34-40	8.9	12
156	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. *Alzheimer's and Dementia*, **2019**, 15, 1172-1182	1.2	16
155	Glutaminase activity in GLS1 Het mouse brain compared to putative pharmacological inhibition by ebselen using ex vivo MRS. *Neurochemistry International*, **2019**, 129, 104508	4.4	2
154	Improved stability of a novel fluorine-18 labeled TCO analogue for pretargeted PET imaging. *Nuclear Medicine and Biology*, **2019**, 76-77, 36-42	2.1	7
153	Spatially variant point spread function for PET rigid motion correction **2019**,		1
152	State-associated changes in longitudinal [F]-PBR111 TSPO PET imaging of psychosis patients: Evidence for the accelerated ageing hypothesis?. *Brain, Behavior, and Immunity*, **2019**, 77, 46-54	16.6	24
151	Molecular Imaging of mGluR5 Availability with [C]ABP68 in Glutaminase Heterozygous Mice. *Cellular and Molecular Neurobiology*, **2019**, 39, 255-263	4.6	1
150	In Vivo Preclinical Molecular Imaging of Repeated Exposure to an -methyl-d-aspartate Antagonist and a Glutaminase Inhibitor as Potential Glutamatergic Modulators. *Journal of Pharmacology and Experimental Therapeutics*, **2019**, 368, 382-390	4.7	4
149	Awake F-FDG PET Imaging of Memantine-Induced Brain Activation and Test-Retest in Freely Running Mice. *Journal of Nuclear Medicine*, **2019**, 60, 844-850	8.9	10

148	Noninvasive Whole-Body Imaging of Phosphatidylethanolamine as a Cell Death Marker Using Tc-Duramycin During TNF-Induced SIRS. *Journal of Nuclear Medicine*, **2018**, 59, 1140-1145	8.9	14
147	F-PBR111 PET Imaging in Healthy Controls and Schizophrenia: Test-Retest Reproducibility and Quantification of Neuroinflammation. *Journal of Nuclear Medicine*, **2018**, 59, 1267-1274	8.9	32
146	[Tc]duramycin for cell death imaging: Impact of kit formulation, purification and species difference. *Nuclear Medicine and Biology*, **2018**, 56, 1-9	2.1	8
145	Noninvasive Relative Quantification of [C]ABP688 PET Imaging in Mice Versus an Input Function Measured Over an Arteriovenous Shunt. *Frontiers in Neurology*, **2018**, 9, 516	4.1	17
144	The effect of occipital nerve field stimulation on the descending pain pathway in patients with fibromyalgia: a water PET and EEG imaging study. *BMC Neurology*, **2018**, 18, 191	3.1	11
143	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. *PLoS ONE*, **2018**, 13, e0206613	3.7	12
142	Acute Ketamine Infusion in Rat Does Not Affect In Vivo [C]ABP688 Binding to Metabotropic Glutamate Receptor Subtype 5. *Molecular Imaging*, **2018**, 17, 1536012118788636	3.7	11
141	How to Modulate Tumor Hypoxia for Preclinical In Vivo Imaging Research. *Contrast Media and Molecular Imaging*, **2018**, 2018, 4608186	3.2	4
140	Longitudinal Characterization of mGluR5 Using C-ABP688 PET Imaging in the Q175 Mouse Model of Huntington Disease. *Journal of Nuclear Medicine*, **2018**, 59, 1722-1727	8.9	10
139	Evaluation of [F]Fluorothymidine as a Biomarker for Early Therapy Response in a Mouse Model of Colorectal Cancer. *Molecular Imaging and Biology*, **2017**, 19, 109-119	3.8	2
138	Non-invasive PET imaging of brain inflammation at disease onset predicts spontaneous recurrent seizures and reflects comorbidities. *Brain, Behavior, and Immunity*, **2017**, 61, 69-79	16.6	28
137	Fast and Accurate Rat Head Motion Tracking With Point Sources for Awake Brain PET. *IEEE Transactions on Medical Imaging*, **2017**, 36, 1573-1582	11.7	12
136	Characterization of an Orthotopic Colorectal Cancer Mouse Model and Its Feasibility for Accurate Quantification in Positron Emission Tomography. *Molecular Imaging and Biology*, **2017**, 19, 762-771	3.8	4
135	Markerless rat head motion tracking using structured light for brain PET imaging of unrestrained awake small animals. *Physics in Medicine and Biology*, **2017**, 62, 1744-1758	3.8	8
134	Accelerated high-frequency repetitive transcranial magnetic stimulation enhances motor activity in rats. *Neuroscience*, **2017**, 347, 103-110	3.9	13
133	Evaluation of Small-Animal PET Outcome Measures to Detect Disease Modification Induced by BACE Inhibition in a Transgenic Mouse Model of Alzheimer Disease. *Journal of Nuclear Medicine*, **2017**, 58, 1977-1983	8.9	18
132	Preclinical molecular imaging of glutamatergic and dopaminergic neuroreceptor kinetics in obsessive compulsive disorder. *Progress in Neuro-Psychopharmacology and Biological Psychiatry*, **2017**, 77, 90-98	5.5	14
131	Validation of the Semiquantitative Static SUVR Method for F-AV45 PET by Pharmacokinetic Modeling with an Arterial Input Function. *Journal of Nuclear Medicine*, **2017**, 58, 1483-1489	8.9	23

130	Evaluation of [F]BR420 and [F]BR351 as radiotracers for MMP-9 imaging in colorectal cancer. *Journal of Labelled Compounds and Radiopharmaceuticals*, **2017**, 60, 69-79	1.9	5
129	Evaluation of [F]CP18 as a Substrate-Based Apoptosis Imaging Agent for the Assessment of Early Treatment Response in Oncology. *Molecular Imaging and Biology*, **2017**, 19, 560-569	3.8	14
128	Longitudinal Characterization of [18F]-FDG and [18F]-AV45 Uptake in the Double Transgenic TASTPM Mouse Model. *Journal of Alzheimer's Disease*, **2017**, 55, 1537-1548	4.3	13
127	Decreased levels of active uPA and KLK8 assessed by [In]MICA-401 binding correlate with the seizure burden in an animal model of temporal lobe epilepsy. *Epilepsia*, **2017**, 58, 1615-1625	6.4	5
126	The Label Matters: PET Imaging of the Biodistribution of Low Molar Mass Zr and F-Labeled Poly(2-ethyl-2-oxazoline). *Biomacromolecules*, **2017**, 18, 96-102	6.9	24
125	Tc-Duramycin SPECT Imaging of Early Tumor Response to Targeted Therapy: A Comparison with F-FDG PET. *Journal of Nuclear Medicine*, **2017**, 58, 665-670	8.9	32
124	The Cerebrospinal Fluid A1-42/A1-40 Ratio Improves Concordance with Amyloid-PET for Diagnosing Alzheimer's Disease in a Clinical Setting. *Journal of Alzheimer's Disease*, **2017**, 60, 561-576	4.3	54
123	MicroPET Outperforms Beta-Microprobes in Determining Neuroreceptor Availability under Pharmacological Restriction for Cold Mass Occupancy. *Frontiers in Neuroscience*, **2017**, 11, 47	5.1	1
122	A simulation study on the impact of the blood flow-dependent component in [18F]AV45 SUVR in Alzheimer's disease. *PLoS ONE*, **2017**, 12, e0189155	3.7	8
121	Coadministration of a Gloriosa superba extract improves the in vivo antitumoural activity of gemcitabine in a murine pancreatic tumour model. *Phytomedicine*, **2016**, 23, 1434-1440	6.5	8
120	Preclinical evaluation of [In]MICA-401, an activity-based probe for SPECT imaging of in vivo uPA activity. *Contrast Media and Molecular Imaging*, **2016**, 11, 448-458	3.2	11
119	Development of a novel antibody-tetrazine conjugate for bioorthogonal pretargeting. *Organic and Biomolecular Chemistry*, **2016**, 14, 7544-51	3.9	21
118	Multiprobe molecular imaging of an NMDA receptor hypofunction rat model for glutamatergic dysfunction. *Psychiatry Research - Neuroimaging*, **2016**, 248, 1-11	2.9	11
117	Early Prediction of Tumor Response to Treatment: Preclinical Validation of 99mTc-Duramycin. *Journal of Nuclear Medicine*, **2016**, 57, 805-11	8.9	28
116	Resting-state functional MRI and [18F]-FDG PET demonstrate differences in neuronal activity between commonly used mouse strains. *NeuroImage*, **2016**, 125, 571-577	7.9	17
115	Synthesis and Evaluation of a Zr-89-Labeled Monoclonal Antibody for Immuno-PET Imaging of Amyloid-Deposition in the Brain. *Molecular Imaging and Biology*, **2016**, 18, 598-605	3.8	18
114	Baseline [(18)F]FMISO PET as a Predictive Biomarker for Response to HIF-1 Inhibition Combined with 5-FU Chemotherapy in a Human Colorectal Cancer Xenograft Model. *Molecular Imaging and Biology*, **2016**, 18, 606-16	3.8	10
113	In Vivo Amyloid-Imaging in the APPPS1-21 Transgenic Mouse Model with a (89)Zr-Labeled Monoclonal Antibody. *Frontiers in Aging Neuroscience*, **2016**, 8, 67	5.3	2

112	Performance Characterization of an Actively Cooled Repetitive Transcranial Magnetic Stimulation Coil for the Rat. *Neuromodulation*, **2016**, 19, 459-68	3.1	23
111	The Effects of Physiological and Methodological Determinants on 18F-FDG Mouse Brain Imaging Exemplified in a Double Transgenic Alzheimer Model. *Molecular Imaging*, **2016**, 15,	3.7	15
110	[18F]-FDG PET neuroimaging in rats with quinpirole-induced checking behavior as a model for obsessive compulsive disorder. *Psychiatry Research - Neuroimaging*, **2016**, 257, 31-38	2.9	9
109	PET 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). *Journal of Controlled Release*, **2016**, 235, 63-71	11.7	62
108	Efficacy Screening of Gloriosa Superba Extracts in a Murine Pancreatic Cancer Model Using (18)F-FDG PET/CT for Monitoring Treatment Response. *Cancer Biotherapy and Radiopharmaceuticals*, **2016**, 31, 99-109	3.9	9
107	Preclinical Comparison of the Amyloid-Radioligands [(11)C]Pittsburgh compound B and [(18)F]florbetaben in Aged APPPS1-21 and BRI1-42 Mouse Models of Cerebral Amyloidosis. *Molecular Imaging and Biology*, **2015**, 17, 688-96	3.8	7
106	Characterization of [(99m)Tc]Duramycin as a SPECT Imaging Agent for Early Assessment of Tumor Apoptosis. *Molecular Imaging and Biology*, **2015**, 17, 838-47	3.8	35
105	Brain inflammation in a chronic epilepsy model: Evolving pattern of the translocator protein during epileptogenesis. *Neurobiology of Disease*, **2015**, 82, 526-539	7.5	57
104	Synthesis and preclinical evaluation of an 18F labeled PDE7 inhibitor for PET neuroimaging. *Nuclear Medicine and Biology*, **2015**, 42, 975-81	2.1	10
103	In vivo molecular neuroimaging of glucose utilization and its association with fibrillar amyloid- load in aged APPPS1-21 mice. *Alzheimer's Research and Therapy*, **2015**, 7, 76	9	23
102	Prelimbic Cortical Injections of a GABA Agonist and Antagonist: In Vivo Quantification of the Effect in the Rat Brain Using [(18)F] FDG MicroPET. *Molecular Imaging and Biology*, **2015**, 17, 856-64	3.8	5
101	Quantitative PET Imaging of Cerebral Glucose Metabolism and Amyloidosis in the TASTPM Double Transgenic Mouse Model of Alzheimer's Disease. *Current Alzheimer Research*, **2015**, 12, 694-703	3	13
100	Small-animal repetitive transcranial magnetic stimulation combined with [F]-FDG microPET to quantify the neuromodulation effect in the rat brain. *Neuroscience*, **2014**, 275, 436-43	3.9	15
99	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. *Molecular Imaging and Biology*, **2014**, 16, 838-45	3.8	12
98	Imaging brain inflammation in epilepsy. *Neuroscience*, **2014**, 279, 238-52	3.9	40
97	In vivo evaluation of (18)F-labeled TCO for pre-targeted PET imaging in the brain. *Nuclear Medicine and Biology*, **2014**, 41, 513-23	2.1	25
96	Synthesis and in vivo preclinical evaluation of an (18)F labeled uPA inhibitor as a potential PET imaging agent. *Nuclear Medicine and Biology*, **2014**, 41, 477-87	2.1	12
95	Towards a reproducible protocol for repetitive and semi-quantitative rat brain imaging with (18) F-FDG: exemplified in a memantine pharmacological challenge. *NeuroImage*, **2014**, 96, 276-87	7.9	34

94	Continuous flushing of the bladder in rodents reduces artifacts and improves quantification in molecular imaging. *Molecular Imaging*, **2014**, 13,	3.7	6
93	Use of a Ray-Based Reconstruction Algorithm to Accurately Quantify Preclinical MicroSPECT Images. *Molecular Imaging*, **2014**, 13, 7290.2014.00007	3.7	8
92	IC-P-044: LONGITUDINAL MONITORING OF □AMYLOID PATHOLOGY AND CEREBRAL HYPOMETABOLISM IN A DOUBLE TRANSGENIC MOUSE MODEL OF ALZHEIMER'S DISEASE **2014**, 10, P27-P27		1
91	Rat brain normalization templates for robust regional analysis of [11C]ABP688 positron emission tomography/computed tomography. *Molecular Imaging*, **2014**, 13,	3.7	6
90	Absence of cardiovascular manifestations in a haploinsufficient Tgfbr1 mouse model. *PLoS ONE*, **2014**, 9, e89749	3.7	9
89	Neural substrates of conversion deafness in a cochlear implant patient: a molecular imaging study using H□O-PET. *Otology and Neurotology*, **2014**, 35, 1780-4	2.6	10
88	The [18F]FDG □PET readout of a brain activation model to evaluate the metabotropic glutamate receptor 2 positive allosteric modulator JNJ-42153605. *Journal of Pharmacology and Experimental Therapeutics*, **2014**, 350, 375-86	4.7	10
87	Longitudinal follow-up of ascending versus abdominal aortic aneurysm formation in angiotensin II-infused ApoE/□mice. *Artery Research*, **2014**, 8, 16	2.2	4
86	Influence of skull modeling approaches on EEG source localization. *Brain Topography*, **2014**, 27, 95-111	4.3	70
85	Small Animal Molecular Imaging Through □PET and □SPECT **2014**, 47-84		
84	Performance evaluation of small-animal multipinhole □SPECT scanners for mouse imaging. *European Journal of Nuclear Medicine and Molecular Imaging*, **2013**, 40, 744-58	8.8	60
83	Iterative CT Reconstruction Using Shearlet-Based Regularization. *IEEE Transactions on Nuclear Science*, **2013**, 60, 3305-3317	1.7	50
82	Quantifying the effect of repetitive transcranial magnetic stimulation in the rat brain by □SPECT CBF scans. *Brain Stimulation*, **2013**, 6, 554-62	5.1	11
81	O2□07□05: Investigations of brain glucose utilization in three transgenic mouse strains that develop neuropathological features of Alzheimer's disease **2013**, 9, P329-P329		3
80	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. *Journal of Nuclear Medicine*, **2013**, 54, 1954-61	8.9	31
79	Ictal-onset localization through connectivity analysis of intracranial EEG signals in patients with refractory epilepsy. *Epilepsia*, **2013**, 54, 1409-18	6.4	90
78	Colonoscopy and □PET/CT are valid techniques to monitor inflammation in the adoptive transfer colitis model in mice. *Inflammatory Bowel Diseases*, **2013**, 19, 967-76	4.5	13
77	Low-dose micro-CT imaging for vascular segmentation and analysis using sparse-view acquisitions. *PLoS ONE*, **2013**, 8, e68449	3.7	5

76	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. *Physics in Medicine and Biology*, **2012**, 57, 1963-86	3.8	6
75	Iterative CT reconstruction using shearlet-based regularization **2012**,		6
74	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. *Molecular Imaging*, **2012**, 11, 7290.2011.00034	3.7	19
73	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. *Molecular Imaging*, **2012**, 11, 135-47	3.7	16
72	Accurate epileptogenic focus localization through time-variant functional connectivity analysis of intracranial electroencephalographic signals. *NeuroImage*, **2011**, 56, 1122-33	7.9	64
71	A20 (TNFAIP3) deficiency in myeloid cells triggers erosive polyarthritis resembling rheumatoid arthritis. *Nature Genetics*, **2011**, 43, 908-12	36.3	216
70	Design of a high resolution scintillator based SPECT detector (SPECTatress). *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2011**, 648, S107-S110	1.2	12
69	Antitumour efficacy of two paclitaxel formulations for hyperthermic intraperitoneal chemotherapy (HIPEC) in an in vivo rat model. *Pharmaceutical Research*, **2011**, 28, 1653-60	4.5	11
68	Replacing vascular corrosion casting by in vivo micro-CT imaging for building 3D cardiovascular models in mice. *Molecular Imaging and Biology*, **2011**, 13, 78-86	3.8	36
67	An integrated framework to quantitatively link mouse-specific hemodynamics to aneurysm formation in angiotensin II-infused ApoE -/- mice. *Annals of Biomedical Engineering*, **2011**, 39, 2430-44	4.7	40
66	Longitudinal quantification of inflammation in the murine dextran sodium sulfate-induced colitis model using PET/CT. *Inflammatory Bowel Diseases*, **2011**, 17, 2058-64	4.5	24
65	Influence of skull inhomogeneities on EEG source localization **2011**,		2
64	A20 (TNFAIP3) deficiency in myeloid cells triggers rheumatoid arthritis. *Annals of the Rheumatic Diseases*, **2011**, 70, A39-A40	2.4	
63	Tomographic image quality of rotating slat versus parallel hole-collimated SPECT. *Physics in Medicine and Biology*, **2011**, 56, 7205-22	3.8	3
62	Accurate Monte Carlo modelling of the back compartments of SPECT cameras. *Physics in Medicine and Biology*, **2011**, 56, 87-104	3.8	24
61	(99)mTc-(CO)(3) His-annexin A5 micro-SPECT demonstrates increased cell death by irinotecan during the vascular normalization window caused by bevacizumab. *Journal of Nuclear Medicine*, **2011**, 52, 1786-94	8.9	34
60	Measurement of porto-systemic shunting in mice by novel three-dimensional micro-single photon emission computed tomography imaging enabling longitudinal follow-up. *Liver International*, **2010**, 30, 1211-20	7.9	6
59	Influence of skull conductivity perturbations on EEG dipole source analysis. *Medical Physics*, **2010**, 37, 4475-84	4.4	15

58	Fast and memory-efficient Monte Carlo-based image reconstruction for whole-body PET. *Medical Physics*, **2010**, 37, 3667-76	4.4	33
57	A high resolution scintillator based SPECT detector with digital pulse processing (SPECTatress) **2010**,		1
56	Preclinical evaluation of monoclonal antibody 14C5 for targeting pancreatic cancer. *Cancer Biotherapy and Radiopharmaceuticals*, **2010**, 25, 193-205	3.9	12
55	Hippocampal deep brain stimulation induces decreased rCBF in the hippocampal formation of the rat. *NeuroImage*, **2010**, 52, 55-61	7.9	35
54	Kinetics of angiogenic changes in a new mouse model for hepatocellular carcinoma. *Molecular Cancer*, **2010**, 9, 219	42.1	27
53	Fast simulation of yttrium-90 bremsstrahlung photons with GATE. *Medical Physics*, **2010**, 37, 2943-50	4.4	22
52	Effect of the static magnetic field of the MR-scanner on ERPs: evaluation of visual, cognitive and motor potentials. *Clinical Neurophysiology*, **2010**, 121, 672-85	4.3	14
51	Radiosynthesis and in vivo evaluation of [11C]-labelled pyrrole-2-carboxamide derivates as novel radioligands for PET imaging of monoamine oxidase A. *Nuclear Medicine and Biology*, **2010**, 37, 459-67	2.1	12
50	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. *Nuclear Medicine and Biology*, **2010**, 37, 469-77	2.1	6
49	In vitro and in vivo evaluation of [99mTc]-labeled tricarbonyl His-annexin A5 as an imaging agent for the detection of phosphatidylserine-expressing cells. *Nuclear Medicine and Biology*, **2010**, 37, 965-75	2.1	17
48	Characterization of the ringing artifacts in rotator-based reconstruction with Monte Carlo-based resolution compensation for PET. *Medical Physics*, **2010**, 37, 4648-60	4.4	6
47	Dipole estimation errors due to not incorporating anisotropic conductivities in realistic head models for EEG source analysis. *Physics in Medicine and Biology*, **2009**, 54, 6079-93	3.8	23
46	Fan beam forced detection in Gate **2009**,		2
45	Fast 3D iterative image reconstruction for SPECT with rotating slat collimators. *Physics in Medicine and Biology*, **2009**, 54, 715-29	3.8	3
44	The heterozygous Lemd3 +/GT mouse is not a murine model for osteopoikilosis in humans. *Calcified Tissue International*, **2009**, 85, 546-51	3.9	3
43	Effect of cyclosporin A administration on the biodistribution and multipinhole muSPECT imaging of [123I]R91150 in rodent brain. *European Journal of Nuclear Medicine and Molecular Imaging*, **2009**, 36, 446-53	8.8	10
42	Removal of the ballistocardiographic artifact from EEG-fMRI data: a canonical correlation approach. *Physics in Medicine and Biology*, **2009**, 54, 1673-89	3.8	10
41	Automated identification of ERP peaks through Dynamic Time Warping: an application to developmental dyslexia. *Clinical Neurophysiology*, **2009**, 120, 1819-27	4.3	5

40	SPECT imaging of high energy isotopes and isotopes with high energy contaminants with rotating slat collimators. *Medical Physics*, **2009**, 36, 4257-67	4.4	13
39	Simulation of complex geometries in GATE **2009**,		1
38	Physics process level discrimination of detections for GATE: assessment of contamination in SPECT and spurious activity in PET. *Medical Physics*, **2009**, 36, 1053-60	4.4	14
37	Monte Carlo Simulations in Nuclear Medicine Imaging **2009**, 177-209		3
36	Scatter effects of MR components in PET-MR inserts **2009**,		1
35	Effect of geometrical constraints on PET performance in whole body simultaneous PET-MR **2009**,		1
34	U-SPECT-II: An Ultra-High-Resolution Device for Molecular Small-Animal Imaging. *Journal of Nuclear Medicine*, **2009**, 50, 599-605	8.9	238
33	Monte-Carlo system modeling for PET reconstruction: A rotator approach **2008**,		1
32	Comparison of 3D SPECT imaging with a rotating slat collimator and a parallel hole collimator **2008**,		2
31	Acceleration of GATE SPECT simulations. *Medical Physics*, **2008**, 35, 1476-85	4.4	27
30	Comparing planar image quality of rotating slat and parallel hole collimation: influence of system modeling. *Physics in Medicine and Biology*, **2008**, 53, 1989-2002	3.8	17
29	Degradation of myocardial perfusion SPECT images caused by contaminants in thallous (201Tl) chloride. *European Journal of Nuclear Medicine and Molecular Imaging*, **2008**, 35, 922-32	8.8	3
28	Fast hybrid SPECT simulation including efficient septal penetration modelling (SP-PSF). *Physics in Medicine and Biology*, **2007**, 52, 3027-43	3.8	21
27	Comparison of image quality of different iodine isotopes (I-123, I-124, and I-131). *Cancer Biotherapy and Radiopharmaceuticals*, **2007**, 22, 423-30	3.9	45
26	Contrast noise behaviour of a rotating slat collimated gamma camera. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2007**, 571, 274-277	1.2	
25	Evolution of the GATE project: new results and developments. *Nuclear Physics, Section B, Proceedings Supplements*, **2007**, 172, 101-103		9
24	Evaluation of 3D Monte Carlo-based scatter correction for 201Tl cardiac perfusion SPECT. *Journal of Nuclear Medicine*, **2007**, 48, 637-44	8.9	23
23	An investigation of temporal regularization techniques for dynamic PET reconstructions using temporal splines. *Medical Physics*, **2007**, 34, 1766-78	4.4	15

22	Cluster computing software for GATE simulations. *Medical Physics*, **2007**, 34, 1926-33	4.4	13
21	Reconstruction for Gated Dynamic Cardiac PET Imaging Using a Tensor Product Spline Basis. *IEEE Transactions on Nuclear Science*, **2007**, 54, 80-91	1.7	14
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