

# Steven Staelens

## List of Publications by Year in descending order

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Version: 2024-02-01

198  
papers

5,877  
citations

126907  
33  
h-index

91884  
69  
g-index

202  
all docs

202  
docs citations

202  
times ranked

6737  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | 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.   | 5.0  | 18        |
| 2  | Longitudinal preclinical evaluation of the novel radioligand [11C]CHDI-626 for PET imaging of mutant huntingtin aggregates in Huntington's disease. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2022, 49, 1166-1175.   | 6.4  | 8         |
| 3  | Quantification of Metabotropic Glutamate Receptor 5 Availability With Both [11C]ABP688 and [18F]FPEB Positron Emission Tomography in the Sapap3 Knockout Mouse Model for Obsessive-Compulsive-like Behavior. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2022, 7, 607-615. | 1.5  | 1         |
| 4  | Development of a ligand for in vivo imaging of mutant huntingtin in Huntington's disease. <i>Science Translational Medicine</i> , 2022, 14, eabm3682.  | 12.4 | 18        |
| 5  | Spatiotemporal Kernel Reconstruction for Linear Parametric Neurotransmitter PET Kinetic Modeling in Motion Correction Brain PET of Awake Rats. <i>Frontiers in Neuroscience</i> , 2022, 16, .  | 2.8  | 0         |
| 6  | Validation, kinetic modeling, and test-retest reproducibility of [ <sup>18</sup> F]SynVesT-1 for PET imaging of synaptic vesicle glycoprotein 2A in mice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2022, 42, 1867-1878.  | 4.3  | 8         |
| 7  | Kinetic Modelling and Test-Retest Reproducibility for the Dopamine D1R Radioligand [11C]SCH23390 in Healthy and Diseased Mice. <i>Molecular Imaging and Biology</i> , 2021, 23, 208-219.   | 2.6  | 5         |
| 8  | Low activity [11C]raclopride kinetic modeling in the mouse brain using the spatiotemporal kernel method. <i>Physics in Medicine and Biology</i> , 2021, 66, 115005.  | 3.0  | 2         |
| 9  | Early Changes in [18F]FDG Uptake as a Readout for PI3K/Akt/mTOR Targeted Drugs in HER-2-Positive Cancer Xenografts. <i>Molecular Imaging</i> , 2021, 2021, 1-14.   | 1.4  | 3         |
| 10 | Estimation of the net influx rate Ki and the cerebral metabolic rate of glucose MRglc using a single static [18F]FDG PET scan in rats. <i>NeuroImage</i> , 2021, 233, 117961.  | 4.2  | 2         |
| 11 | 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.   | 2.7  | 9         |
| 12 | 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.   | 2.6  | 11        |
| 13 | Validation and noninvasive kinetic modeling of [ <sup>11</sup> C]UCB-J PET imaging in mice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020, 40, 1351-1362.  | 4.3  | 32        |
| 14 | 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.                                      | 1.3  | 6         |
| 15 | 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.  | 4.0  | 8         |
| 16 | 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.   | 2.6  | 15        |
| 17 | Validation of a spatially variant resolution model for small animal brain PET studies. <i>Biomedical Physics and Engineering Express</i> , 2020, 6, 045001.  | 1.2  | 15        |
| 18 | Progression of obsessive compulsive disorder-like grooming in Sapap3 knockout mice: A longitudinal [11C]ABP688 PET study. <i>Neuropharmacology</i> , 2020, 177, 108160.  | 4.1  | 8         |



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|----|--|-----|-----------|
| 37 | 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.  | 5.0 | 23        |
| 38 | 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.                   | 5.0 | 18        |
| 39 | <sup>18</sup> 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.                 | 5.0 | 47        |
| 40 | [ <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.   | 0.6 | 11        |
| 41 | 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.                                   | 1.8 | 13        |
| 42 | MR-based spatial normalization improves [ <sup>18</sup> F]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. | 2.5 | 17        |
| 43 | Acute Ketamine Infusion in Rat Does Not Affect In Vivo [ <sup>11</sup> C]ABP688 Binding to Metabotropic Glutamate Receptor Subtype 5. <i>Molecular Imaging</i> , 2018, 17, 153601211878863.                              | 1.4 | 13        |
| 44 | How to Modulate Tumor Hypoxia for Preclinical In Vivo Imaging Research. <i>Contrast Media and Molecular Imaging</i> , 2018, 2018, 1-17.  | 0.8 | 6         |
| 45 | 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.                                | 5.0 | 18        |
| 46 | Noninvasive Relative Quantification of [ <sup>11</sup> C]ABP688 PET Imaging in Mice Versus an Input Function Measured Over an Arteriovenous Shunt. <i>Frontiers in Neurology</i> , 2018, 9, 516.                         | 2.4 | 26        |
| 47 | Evaluation of [ <sup>18</sup> F]Fluorothymidine as a Biomarker for Early Therapy Response in a Mouse Model of Colorectal Cancer. <i>Molecular Imaging and Biology</i> , 2017, 19, 109-119.                               | 2.6 | 2         |
| 48 | 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.                              | 4.1 | 30        |
| 49 | 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.  | 8.9 | 20        |
| 50 | 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.               | 2.6 | 6         |
| 51 | 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.                                      | 3.0 | 11        |
| 52 | Accelerated high-frequency repetitive transcranial magnetic stimulation enhances motor activity in rats. <i>Neuroscience</i> , 2017, 347, 103-110.   | 2.3 | 19        |
| 53 | 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.    | 5.0 | 24        |
| 54 | 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.        | 4.8 | 15        |

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|----|--|-----|-----------|
| 55 | 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.                                     | 5.0 | 29        |
| 56 | Evaluation of [ $^{18}\text{F}$ ]BR420 and [ $^{18}\text{F}$ ]BR351 as radiotracers for MMP $\alpha$ 9 imaging in colorectal cancer. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2017, 60, 69-79.                          | 1.0 | 8         |
| 57 | Evaluation of [ $^{18}\text{F}$ ]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.                                       | 2.6 | 16        |
| 58 | Decreased levels of active $\text{uPA}$ and $\text{KLK}8$ assessed by [ $^{111}\text{In}$ ]MICA $\alpha$ 401 binding correlate with the seizure burden in an animal model of temporal lobe epilepsy. <i>Epilepsia</i> , 2017, 58, 1615-1625.   | 5.1 | 5         |
| 59 | The Label Matters: $^{18}\text{F}$ 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.                                  | 5.4 | 32        |
| 60 | $^{99\text{m}}\text{Tc}$ -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.   | 5.0 | 38        |
| 61 | The Cerebrospinal Fluid $\text{A}\beta^{42}/\text{A}\beta^{40}$ 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.               | 2.6 | 82        |
| 62 | MicroPET Outperforms Beta-Microprobes in Determining Neuroreceptor Availability under Pharmacological Restriction for Cold Mass Occupancy. <i>Frontiers in Neuroscience</i> , 2017, 11, 47.  | 2.8 | 1         |
| 63 | 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.   | 2.5 | 14        |
| 64 | Abstract 1875: [ $^{18}\text{F}$ ]HX4 shows potential as a predictive biomarker for the radiosensitizing capacities of metformin in a NSCLC xenograft model. , 2017, , .   |     | 0         |
| 65 | In Vivo Amyloid- $\beta$ Imaging in the APPPS1 $\alpha$ 21 Transgenic Mouse Model with a $^{89}\text{Zr}$ -Labeled Monoclonal Antibody. <i>Frontiers in Aging Neuroscience</i> , 2016, 8, 67.  | 3.4 | 3         |
| 66 | Performance Characterization of an Actively Cooled Repetitive Transcranial Magnetic Stimulation Coil for the Rat. <i>Neuromodulation</i> , 2016, 19, 459-468.  | 0.8 | 35        |
| 67 | The Effects of Physiological and Methodological Determinants on $^{18}\text{F}$ -FDG Mouse Brain Imaging Exemplified in a Double Transgenic Alzheimer Model. <i>Molecular Imaging</i> , 2016, 15, 153601211562491.                             | 1.4 | 21        |
| 68 | [ $^{18}\text{F}$ ]-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.   | 1.8 | 11        |
| 69 | $^{18}\text{F}$ 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. | 9.9 | 76        |
| 70 | 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.          | 1.0 | 13        |
| 71 | 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.   | 5.3 | 11        |
| 72 | Preclinical evaluation of [ $^{111}\text{In}$ ]MICA $\alpha$ 401, an activity-based probe for SPECT imaging of in vivo $\text{uPA}$ activity. <i>Contrast Media and Molecular Imaging</i> , 2016, 11, 448-458.                                 | 0.8 | 11        |

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|----|--|-----|-----------|
| 73 | Development of a novel antibody-tetrazine conjugate for bioorthogonal pretargeting. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 7544-7551.   | 2.8 | 38        |
| 74 | 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.   | 2.6 | 15        |
| 75 | Su1934 Activation Status of the Central Nervous System and Lumbar Dorsal Root Ganglia in a Mouse Model of Polymicrobial Abdominal Septic Ileus. <i>Gastroenterology</i> , 2016, 150, S592-S593.  | 1.3 | 0         |
| 76 | Multiprobe molecular imaging of an NMDA receptor hypofunction rat model for glutamatergic dysfunction. <i>Psychiatry Research - Neuroimaging</i> , 2016, 248, 1-11.  | 1.8 | 13        |
| 77 | Early Prediction of Tumor Response to Treatment: Preclinical Validation of $^{99m}\text{Tc}$ -Duramycin. <i>Journal of Nuclear Medicine</i> , 2016, 57, 805-811.   | 5.0 | 30        |
| 78 | 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.   | 4.2 | 24        |
| 79 | Synthesis and Evaluation of a Zr-89-Labeled Monoclonal Antibody for Immuno-PET Imaging of Amyloid- $\beta^2$ Deposition in the Brain. <i>Molecular Imaging and Biology</i> , 2016, 18, 598-605.  | 2.6 | 23        |
| 80 | Baseline [18F]FMISO $\frac{1}{4}$ PET as a Predictive Biomarker for Response to HIF-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. | 2.6 | 11        |
| 81 | In vivo molecular neuroimaging of glucose utilization and its association with fibrillar amyloid- $\beta^2$ load in aged APPPS1-21 mice. <i>Alzheimer's Research and Therapy</i> , 2015, 7, 76.  | 6.2 | 27        |
| 82 | Rat Brain Normalization Templates for Robust Regional Analysis of [11C]ABP688 Positron Emission Tomography/Computed Tomography. <i>Molecular Imaging</i> , 2015, 14, 7290.2014.00037.  | 1.4 | 13        |
| 83 | Prelimbic Cortical Injections of a GABA Agonist and Antagonist: In Vivo Quantification of the Effect in the Rat Brain Using [18F] FDG MicroPET. <i>Molecular Imaging and Biology</i> , 2015, 17, 856-864.                                      | 2.6 | 6         |
| 84 | Preclinical Comparison of the Amyloid- $\beta^2$ 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, 688-696.    | 2.6 | 8         |
| 85 | Characterization of [99mTc]Duramycin as a SPECT Imaging Agent for Early Assessment of Tumor Apoptosis. <i>Molecular Imaging and Biology</i> , 2015, 17, 838-847.   | 2.6 | 43        |
| 86 | Brain inflammation in a chronic epilepsy model: Evolving pattern of the translocator protein during epileptogenesis. <i>Neurobiology of Disease</i> , 2015, 82, 526-539.   | 4.4 | 69        |
| 87 | Synthesis and preclinical evaluation of an 18 F labeled PDE7 inhibitor for PET neuroimaging. <i>Nuclear Medicine and Biology</i> , 2015, 42, 975-981.  | 0.6 | 12        |
| 88 | Quantitative $\frac{1}{4}$ 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.                               | 1.4 | 14        |
| 89 | Absence of Cardiovascular Manifestations in a Haploinsufficient Tgfb $\beta$ 1 Mouse Model. <i>PLoS ONE</i> , 2014, 9, e89749.   | 2.5 | 9         |
| 90 | Neural Substrates of Conversion Deafness in a Cochlear Implant Patient. <i>Otology and Neurotology</i> , 2014, 35, 1780-1784.  | 1.3 | 10        |



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|-----|---|-----|-----------|
| 91  | The [ <sup>18</sup> F]FDG $\tau_{1/2}$ 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, 375-386. | 2.5 | 12        |
| 92  | Longitudinal follow-up of ascending versus abdominal aortic aneurysm formation in angiotensin II-infused ApoE <sup>-/-</sup> mice. Artery Research, 2014, 8, 16.  | 0.6 | 4         |
| 93  | Influence of Skull Modeling Approaches on EEG Source Localization. Brain Topography, 2014, 27, 95-111.  | 1.8 | 88        |
| 94  | Small-animal repetitive transcranial magnetic stimulation combined with [18F]-FDG microPET to quantify the neuromodulation effect in the rat brain. Neuroscience, 2014, 275, 436-443.   | 2.3 | 19        |
| 95  | Deep Brain Stimulation of the Prelimbic Medial Prefrontal Cortex: Quantification of the Effect on Glucose Metabolism in the Rat Brain Using [18F]FDG MicroPET. Molecular Imaging and Biology, 2014, 16, 838-845.  | 2.6 | 12        |
| 96  | Imaging brain inflammation in epilepsy. Neuroscience, 2014, 279, 238-252.   | 2.3 | 44        |
| 97  | In vivo evaluation of 18F-labeled TCO for pre-targeted PET imaging in the brain. Nuclear Medicine and Biology, 2014, 41, 513-523.   | 0.6 | 31        |
| 98  | Synthesis and in vivo preclinical evaluation of an 18F labeled uPA inhibitor as a potential PET imaging agent. Nuclear Medicine and Biology, 2014, 41, 477-487.   | 0.6 | 16        |
| 99  | 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, 276-287.  | 4.2 | 37        |
| 100 | Continuous Flushing of the Bladder in Rodents Reduces Artifacts and Improves Quantification in Molecular Imaging. Molecular Imaging, 2014, 13, 7290.2014.00013.   | 1.4 | 6         |
| 101 | Use of a Ray-Based Reconstruction Algorithm to Accurately Quantify Preclinical MicroSPECT Images. Molecular Imaging, 2014, 13, 7290.2014.00007.   | 1.4 | 10        |
| 102 | IC-P-044: LONGITUDINAL MONITORING OF $\beta$ -AMYLOID PATHOLOGY AND CEREBRAL HYPOMETABOLISM IN A DOUBLE TRANSGENIC MOUSE MODEL OF ALZHEIMER'S DISEASE. , 2014, 10, P27-P27.   |     | 1         |
| 103 | Small Animal Molecular Imaging Through $\tau_{1/2}$ PET and $\tau_{1/2}$ SPECT. , 2014, , 47-84.  |     | 0         |
| 104 | Performance evaluation of small-animal multipinhole $\tau_{1/2}$ SPECT scanners for mouse imaging. European Journal of Nuclear Medicine and Molecular Imaging, 2013, 40, 744-758.   | 6.4 | 68        |
| 105 | Iterative CT Reconstruction Using Shearlet-Based Regularization. IEEE Transactions on Nuclear Science, 2013, 60, 3305-3317.   | 2.0 | 55        |
| 106 | Quantifying the Effect of Repetitive Transcranial Magnetic Stimulation in the Rat Brain by $\tau_{1/2}$ SPECT CBF Scans. Brain Stimulation, 2013, 6, 554-562.   | 1.6 | 14        |
| 107 | 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         |
| 108 | $\gamma$ -Acetylcysteine and MK-801-Induced Changes in Glutamate Levels Do Not Affect In Vivo Binding of Metabotropic Glutamate 5 Receptor Radioligand [ <sup>11</sup> C]-ABP688 in Rat Brain. Journal of Nuclear Medicine, 2013, 54, 1954-1961.        | 5.0 | 34        |

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|-----|---|------|-----------|
| 109 | Ictal onset localization through connectivity analysis of intracranial <scp>EEG</scp> signals in patients with refractory epilepsy. <i>Epilepsia</i> , 2013, 54, 1409-1418.   | 5.1  | 116       |
| 110 | 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.   | 1.9  | 15        |
| 111 | Low-Dose Micro-CT Imaging for Vascular Segmentation and Analysis Using Sparse-View Acquisitions. <i>PLoS ONE</i> , 2013, 8, e68449.   | 2.5  | 8         |
| 112 | Abstract 3910: Targeting urokinase plasminogen activator: evaluation of activity-based imaging probes in an orthotopic breast cancer model.. , 2013, , .  |      | 0         |
| 113 | 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, 1963-1986. | 3.0  | 6         |
| 114 | Iterative CT reconstruction using shearlet-based regularization. , 2012, , .  |      | 6         |
| 115 | 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.        | 1.4  | 22        |
| 116 | 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.                 | 1.4  | 16        |
| 117 | Influence of skull inhomogeneities on EEG source localization. , 2011, , .  |      | 2         |
| 118 | Epileptogenic focus localization through connectivity analysis of the intracranial EEG: A retrospective study in 2 patients. , 2011, , .  |      | 0         |
| 119 | Accurate epileptogenic focus localization through time-variant functional connectivity analysis of intracranial electroencephalographic signals. <i>NeuroImage</i> , 2011, 56, 1122-1133.   | 4.2  | 75        |
| 120 | A20 (TNFAIP3) deficiency in myeloid cells triggers erosive polyarthritis resembling rheumatoid arthritis. <i>Nature Genetics</i> , 2011, 43, 908-912.   | 21.4 | 250       |
| 121 | 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.                     | 1.6  | 12        |
| 122 | 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.   | 3.5  | 13        |
| 123 | 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.   | 2.6  | 40        |
| 124 | An Integrated Framework to Quantitatively Link Mouse-Specific Hemodynamics to Aneurysm Formation in Angiotensin II-infused ApoE $\alpha^{-/-}$ mice. <i>Annals of Biomedical Engineering</i> , 2011, 39, 2430-2444.   | 2.5  | 43        |
| 125 | Longitudinal quantification of inflammation in the murine dextran sodium sulfate-induced colitis model using $^{14}$ PET/CT1. <i>Inflammatory Bowel Diseases</i> , 2011, 17, 2058-2064.   | 1.9  | 26        |
| 126 | A20 (TNFAIP3) deficiency in myeloid cells triggers rheumatoid arthritis. <i>Annals of the Rheumatic Diseases</i> , 2011, 70, A39-A40.   | 0.9  | 0         |



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|-----|--|------|-----------|
| 127 | Tomographic image quality of rotating slat versus parallel hole-collimated SPECT. Physics in Medicine and Biology, 2011, 56, 7205-7222.  | 3.0  | 3         |
| 128 | Accurate Monte Carlo modelling of the back compartments of SPECT cameras. Physics in Medicine and Biology, 2011, 56, 87-104.   | 3.0  | 29        |
| 129 | <sup>99m</sup> Tc-(CO) <sub>3</sub> 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, 1786-1794. | 5.0  | 41        |
| 130 | Characterization of the ringing artifacts in rotatorâ€based reconstruction with Monte Carloâ€based resolution compensation for PET. Medical Physics, 2010, 37, 4648-4660.  | 3.0  | 7         |
| 131 | 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, 1211-1220.                    | 3.9  | 6         |
| 132 | Influence of skull conductivity perturbations on EEG dipole source analysis. Medical Physics, 2010, 37, 4475-4484.   | 3.0  | 20        |
| 133 | Fast and memoryâ€efficient Monte Carloâ€based image reconstruction for wholeâ€body PET. Medical Physics, 2010, 37, 3667-3676.  | 3.0  | 37        |
| 134 | A high resolution scintillator based SPECT detector with digital pulse processing (SPECTatress). , 2010, , .   |      | 2         |
| 135 | Preclinical Evaluation of Monoclonal Antibody 14C5 for Targeting Pancreatic Cancer. Cancer Biotherapy and Radiopharmaceuticals, 2010, 25, 193-205.   | 1.0  | 13        |
| 136 | Hippocampal deep brain stimulation induces decreased rCBF in the hippocampal formation of the rat. NeuroImage, 2010, 52, 55-61.  | 4.2  | 37        |
| 137 | Kinetics of angiogenic changes in a new mouse model for hepatocellular carcinoma. Molecular Cancer, 2010, 9, 219.  | 19.2 | 36        |
| 138 | Fast simulation of yttriumâ€90 bremsstrahlung photons with <sc>GATE</sc>. Medical Physics, 2010, 37, 2943-2950.  | 3.0  | 23        |
| 139 | Effect of the static magnetic field of the MR-scanner on ERPs: Evaluation of visual, cognitive and motor potentials. Clinical Neurophysiology, 2010, 121, 672-685.   | 1.5  | 16        |
| 140 | Radiosynthesis and in vivo evaluation of [ <sup>11</sup> C]-labelled pyrrole-2-carboxamide derivatives as novel radioligands for PET imaging of monoamine oxidase A. Nuclear Medicine and Biology, 2010, 37, 459-467.            | 0.6  | 13        |
| 141 | In vivo evaluation of [ <sup>123</sup> I]-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, 469-477.       | 0.6  | 8         |
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