

Hiroshi Watabe

List of Publications by Year in descending order

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Version: 2024-02-01

152
papers

2,853
citations

172457

29
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48
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154
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154
docs citations

154
times ranked

3061
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Noninvasive estimation of human radiation dosimetry of ^{18}F -FDG by whole-body small animal PET imaging in rats. <i>Applied Radiation and Isotopes</i> , 2022, 181, 110071. | 1.5 | 1 |
| 2 | New standards for phantom image quality and SUV harmonization range for multicenter oncology PET studies. <i>Annals of Nuclear Medicine</i> , 2022, 36, 144-161. | 2.2 | 7 |
| 3 | An Analysis Scheme for 3D Visualization of Positron Emitting Radioisotopes Using Positron Emission Mammography System. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 823. | 2.5 | 6 |
| 4 | Anatomical variability, multi-modal coordinate systems, and precision targeting in the marmoset brain. <i>NeuroImage</i> , 2022, 250, 118965. | 4.2 | 10 |
| 5 | Proton range monitoring using ^{13}N peak for proton therapy applications. <i>PLoS ONE</i> , 2022, 17, e0263521. | 2.5 | 3 |
| 6 | A Theoretical Study of Scattering of Electrons and Positrons by CO_2 Molecule. <i>Atoms</i> , 2022, 10, 31. | 1.6 | 7 |
| 7 | Development of PHITS graphical user interface for simulation of positron emitting radioisotopes production in common biological materials during proton therapy. <i>Journal of Radiation Research</i> , 2022, 63, 385-392. | 1.6 | 2 |
| 8 | RadStat: An open-source statistical analysis tool for counts obtained by a GM counter. <i>PLoS ONE</i> , 2022, 17, e0267610. | 2.5 | 0 |
| 9 | Kinetic Models for PET/SPECT Imaging. , 2022, , 1753-1763. | | 0 |
| 10 | Radioprotective effect of nanoceria and magnetic flower-like iron oxide microparticles on gamma radiation-induced damage in BSA protein. <i>AIMS Biophysics</i> , 2021, 8, 124-142. | 0.6 | 3 |
| 11 | Greater reductions in blood flow after anti-angiogenic treatment in non-small cell lung cancer patients are associated with shorter progression-free survival. <i>Scientific Reports</i> , 2021, 11, 6805. | 3.3 | 3 |
| 12 | Theoretical investigations of e^{\pm} CO scattering. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2021, 54, 095203. | 1.5 | 6 |
| 13 | Relativistic Study on the Scattering of e^{\pm} from Atoms and Ions of the Rn Isonuclear Series. <i>Atoms</i> , 2021, 9, 59. | 1.6 | 8 |
| 14 | SecureVision: An Open-Source User-Customizable Image Encryption Program. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 7915. | 2.5 | 1 |
| 15 | MCHP (Monte Carlo + Human Phantom): A platform to facilitate teaching nuclear radiation physics. <i>PLoS ONE</i> , 2021, 16, e0257638. | 2.5 | 6 |
| 16 | Theoretical study of e^{\pm} scattering by the Au atom. <i>Results in Physics</i> , 2021, 29, 104742. | 4.1 | 4 |
| 17 | Theoretical studies on the elastic scattering of e^{\pm} off the ions of xenon isonuclear series. <i>Physica Scripta</i> , 2021, 96, 025402. | 2.5 | 7 |
| 18 | CompVision: An open-source five-compartmental software for biokinetic simulations. <i>Open Physics</i> , 2021, 19, 454-459. | 1.7 | 2 |

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|----|---|-----|-----------|
| 19 | Radioprotective Role of Vitamins C and E against the Gamma Ray-Induced Damage to the Chemical Structure of Bovine Serum Albumin. <i>Antioxidants</i> , 2021, 10, 1875. | 5.1 | 3 |
| 20 | Non-invasive imaging of radiocesium dynamics in a living animal using a positron-emitting ^{127}Cs tracer. <i>Scientific Reports</i> , 2020, 10, 16155. | 3.3 | 2 |
| 21 | Iodine-131 labeled genistein as a potential radiotracer for breast cancer. <i>Heliyon</i> , 2020, 6, e04780. | 3.2 | 5 |
| 22 | Theoretical investigation of the elastic scattering of $^{\text{m}}\text{e}^{\text{pm}}$ by the ions of nitrogen isonuclear series. <i>Physica Scripta</i> , 2020, 95, 085403. | 2.5 | 4 |
| 23 | Error propagation analysis of seven partial volume correction algorithms for ^{18}F THK-5351 brain PET imaging. <i>EJNMMI Physics</i> , 2020, 7, 57. | 2.7 | 8 |
| 24 | (R)- and (S)-ketamine induce differential fMRI responses in conscious rats. <i>Synapse</i> , 2019, 73, e22126. | 1.2 | 33 |
| 25 | Error evaluation of the D-shuttle dosimeter technique in positron emission tomography study. <i>Radiological Physics and Technology</i> , 2019, 12, 363-373. | 1.9 | 4 |
| 26 | A novel Tungsten-based fiducial marker for multi-modal brain imaging. <i>Journal of Neuroscience Methods</i> , 2019, 323, 22-31. | 2.5 | 5 |
| 27 | A systematic performance evaluation of head motion correction techniques for $\text{}^{\text{A}}\text{ commercial PET scanners using a reproducible experimental acquisition protocol. Annals of Nuclear Medicine}$, 2019, 33, 459-470. | 2.2 | 7 |
| 28 | Effect of Total Variation Regularization in Bone SPECT Reconstruction from a Small Number of Projections. , 2019, , . | | 1 |
| 29 | Renal statistical map for positron emission tomography with ^{15}O water. <i>American Journal of Nuclear Medicine and Molecular Imaging</i> , 2019, 9, 193-202. | 1.0 | 2 |
| 30 | Online molecular image repository and analysis system: A multicenter collaborative open-source infrastructure for molecular imaging research and application. <i>Computers in Biology and Medicine</i> , 2018, 96, 233-240. | 7.0 | 2 |
| 31 | Novel regenerative therapy combined with transphrenic peritoneoscopy-assisted omentopexy. <i>Interactive Cardiovascular and Thoracic Surgery</i> , 2018, 26, 993-1001. | 1.1 | 5 |
| 32 | Development of a circular shape Si-PM-based detector ring for breast-dedicated PET system. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2018, 880, 118-124. | 1.6 | 7 |
| 33 | Effects of levocetirizine and diphenhydramine on regional glucose metabolic changes and hemodynamic responses in the human prefrontal cortex during cognitive tasks. <i>Human Psychopharmacology</i> , 2018, 33, e2655. | 1.5 | 2 |
| 34 | Development of a cost-effective Compton camera using a positron emission tomography data acquisition system. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2018, 912, 20-23. | 1.6 | 8 |
| 35 | Evaluation of the Feasibility of Screening Tau Radiotracers Using an Amyloid Biomathematical Screening Methodology. <i>Computational and Mathematical Methods in Medicine</i> , 2018, 2018, 1-13. | 1.3 | 0 |
| 36 | Investigation of the quantitative accuracy of low-dose amyloid and tau PET imaging. <i>Radiological Physics and Technology</i> , 2018, 11, 451-459. | 1.9 | 1 |

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|----|--|-----|-----------|
| 37 | Astatine-211 imaging by a Compton camera for targeted radiotherapy. Applied Radiation and Isotopes, 2018, 139, 238-243. | 1.5 | 19 |
| 38 | Application of astatine-210: Evaluation of astatine distribution and effect of pre-injected iodide in whole body of normal rats. Applied Radiation and Isotopes, 2018, 139, 251-255. | 1.5 | 7 |
| 39 | Internal radiation dose estimation using multiple D ϵ shuttle dosimeters for positron emission tomography (<sc>PET</sc>): A validation study using <sc>NEMA</sc> body phantom. Medical Physics, 2018, 45, 4693-4703. | 3.0 | 4 |
| 40 | Prediction of the Clinical SUV Ratio in Amyloid PET Imaging Using a Biomathematic Modeling Approach Toward the Efficient Development of a Radioligand. Journal of Nuclear Medicine, 2017, 58, 1285-1292. | 5.0 | 8 |
| 41 | Development of a Cherenkov light imaging system for studying the dynamics of radiocesium in plants. Journal of Nuclear Science and Technology, 2017, 54, 662-667. | 1.3 | 8 |
| 42 | Association of Coronary Perivascular Adipose Tissue Inflammation and Drug-Eluting Stent-Induced Coronary Hyperconstricting Responses in Pigs. Arteriosclerosis, Thrombosis, and Vascular Biology, 2017, 37, 1757-1764. | 2.4 | 43 |
| 43 | Biomathematical screening of amyloid radiotracers with clinical usefulness index. Alzheimer's and Dementia: Translational Research and Clinical Interventions, 2017, 3, 542-552. | 3.7 | 4 |
| 44 | A comparison of five partial volume correction methods for Tau and Amyloid PET imaging with [18F]THK5351 and [11C]PIB. Annals of Nuclear Medicine, 2017, 31, 563-569. | 2.2 | 29 |
| 45 | ¹³⁷ Cs transmission imaging and segmented attenuation corrections in a small animal PET scanner. Radiological Physics and Technology, 2017, 10, 321-330. | 1.9 | 3 |
| 46 | Compartmental Modeling in PET Kinetics. , 2017, , 323-352. | | 1 |
| 47 | Establishment of a Novel Detection System for Measuring Primary Knock-on Atoms. , 2017, , . | | 0 |
| 48 | Gd-EOB-DTPA-enhanced-MR imaging in the inflammation stage of nonalcoholic steatohepatitis (NASH) in mice. Magnetic Resonance Imaging, 2016, 34, 724-729. | 1.8 | 25 |
| 49 | Development of ultrahigh resolution Si-PM-based PET system using 0.32 mm pixel scintillators. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 836, 7-12. | 1.6 | 31 |
| 50 | Imaging of radiocesium uptake dynamics in a plant body by using a newly developed high-resolution gamma camera. Journal of Environmental Radioactivity, 2016, 151, 461-467. | 1.7 | 17 |
| 51 | Pharmacological MRI response to a selective dopamine transporter inhibitor, GBR12909, in awake and anesthetized rats. Synapse, 2015, 69, 203-212. | 1.2 | 4 |
| 52 | Development of dual-layer GSO depth-of-interaction block detector using angled optical fiber. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 781, 65-70. | 1.6 | 4 |
| 53 | Cell-sheet Therapy With Omentopexy Promotes Arteriogenesis and Improves Coronary Circulation Physiology in Failing Heart. Molecular Therapy, 2015, 23, 374-386. | 8.2 | 43 |
| 54 | Development of an Optical Fiber-Based MR Compatible Gamma Camera for SPECT/MRI Systems. IEEE Transactions on Nuclear Science, 2015, 62, 76-81. | 2.0 | 4 |

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|----|--|------|-----------|
| 55 | Quantitative kinetic analysis of PET amyloid imaging agents [11C]BF227 and [18F]FACT in human brain. <i>Nuclear Medicine and Biology</i> , 2015, 42, 734-744. | 0.6 | 9 |
| 56 | Distribution of Intravenously Administered Acetylcholinesterase Inhibitor and Acetylcholinesterase Activity in the Adrenal Gland: 11C-Donepezil PET Study in the Normal Rat. <i>PLoS ONE</i> , 2014, 9, e107427. | 2.5 | 7 |
| 57 | Ultrahigh-resolution Cerenkov-light imaging system for positron radionuclides: potential applications and limitations. <i>Annals of Nuclear Medicine</i> , 2014, 28, 961-969. | 2.2 | 9 |
| 58 | Development of a PET/Cerenkov light hybrid imaging system. <i>Medical Physics</i> , 2014, 41, 092504. | 3.0 | 9 |
| 59 | Development of a high-resolution YSO gamma camera system that employs 0.8-mm pixels. <i>Annals of Nuclear Medicine</i> , 2014, 28, 232-240. | 2.2 | 8 |
| 60 | Selective accumulation of [62Zn]-labeled glycoconjugated porphyrins as multi-functional positron emission tomography tracers in cancer cells. <i>Bioorganic and Medicinal Chemistry</i> , 2014, 22, 2563-2570. | 3.0 | 18 |
| 61 | Impact of cardiac support device combined with slow-release prostacyclin agonist in a canine ischemic cardiomyopathy model. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2014, 147, 1081-1087. | 0.8 | 15 |
| 62 | Rapid Synthesis of 62Zn-Labeled <i>S</i> -Glycosylated Porphyrin as Positron Emission Tomography Tracers for In Vivo PET Imaging. <i>Chemistry Letters</i> , 2014, 43, 778-780. | 1.3 | 6 |
| 63 | Kinetic Models for PET/SPECT Imaging. , 2014, , 1-14. | | 0 |
| 64 | Kinetics of neurodegeneration based on a risk-related biomarker in animal model of glaucoma. <i>Molecular Neurodegeneration</i> , 2013, 8, 4. | 10.8 | 10 |
| 65 | Optimization of [11C]methionine PET study: appropriate scan timing and effect of plasma amino acid concentrations on the SUV. <i>EJNMMI Research</i> , 2013, 3, 27. | 2.5 | 18 |
| 66 | Biodistribution of 125I-labeled polymeric vaccine carriers after subcutaneous injection. <i>Bioorganic and Medicinal Chemistry</i> , 2013, 21, 5310-5315. | 3.0 | 9 |
| 67 | Development of an ultrahigh-resolution Si-PM-based dual-head GAGG coincidence imaging system. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013, 703, 183-189. | 1.6 | 13 |
| 68 | Quantitative Evaluation of Cerebral Blood Flow and Oxygen Metabolism in Normal Anesthetized Rats: ¹⁵ O-Labeled Gas Inhalation PET with MRI Fusion. <i>Journal of Nuclear Medicine</i> , 2013, 54, 283-290. | 5.0 | 31 |
| 69 | Development of an ultrahigh resolution Si-PM based PET system for small animals. <i>Physics in Medicine and Biology</i> , 2013, 58, 7875-7888. | 3.0 | 58 |
| 70 | Rapid Quantitative <i>CBF</i> and <i>CMRO₂</i> Measurements from a Single <i>PET</i> Scan with Sequential Administration of Dual ¹⁵ O-Labeled Tracers. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013, 33, 440-448. | 4.3 | 41 |
| 71 | Autologous mesenchymal stem cell-derived dopaminergic neurons function in parkinsonian macaques. <i>Journal of Clinical Investigation</i> , 2013, 123, 272-284. | 8.2 | 63 |
| 72 | Simultaneous imaging using Si-PM-based PET and MRI for development of an integrated PET/MRI system. <i>Physics in Medicine and Biology</i> , 2012, 57, N1-N13. | 3.0 | 62 |

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|----|---|-----|-----------|
| 73 | Performance comparison of high quantum efficiency and normal quantum efficiency photomultiplier tubes and position sensitive photomultiplier tubes for high resolution PET and SPECT detectors. Medical Physics, 2012, 39, 6900-6907. | 3.0 | 12 |
| 74 | Development of a flexible optical fiber based high resolution integrated PET/MRI system. Medical Physics, 2012, 39, 6660-6671. | 3.0 | 24 |
| 75 | Quantification of regional cerebral blood flow in rats using an arteriovenous shunt and micro-PET. Nuclear Medicine and Biology, 2012, 39, 730-741. | 0.6 | 10 |
| 76 | Monte Carlo estimation of scatter effects on quantitative myocardial blood flow and perfusable tissue fraction using 3D-PET and ¹⁵ O-water. Physics in Medicine and Biology, 2012, 57, 7481-7492. | 3.0 | 8 |
| 77 | Intratumoral heterogeneity of F-18 FDG uptake differentiates between gastrointestinal stromal tumors and abdominal malignant lymphomas on PET/CT. Annals of Nuclear Medicine, 2012, 26, 222-227. | 2.2 | 48 |
| 78 | Effects of patient movement on measurements of myocardial blood flow and viability in resting 15O-water PET studies. Journal of Nuclear Cardiology, 2012, 19, 524-533. | 2.1 | 29 |
| 79 | Development of a high-sensitivity BGO well counter for small animal PET studies. Radiological Physics and Technology, 2012, 5, 59-62. | 1.9 | 3 |
| 80 | Three-dimensional quantitation of regional cerebral blood flow in mice using a high-resolution pinhole SPECT system and 123I-iodoamphetamine. Nuclear Medicine and Biology, 2011, 38, 1157-1164. | 0.6 | 5 |
| 81 | Imaging of Carbon Translocation to Fruit Using Carbon-11-Labeled Carbon Dioxide and Positron Emission Tomography. IEEE Transactions on Nuclear Science, 2011, 58, 395-399. | 2.0 | 23 |
| 82 | Sensitivity of kinetic macro parameters to changes in dopamine synthesis, storage, and metabolism: A simulation study for [¹⁸ F]FDOPA PET by a model with detailed dopamine pathway. Synapse, 2011, 65, 751-762. | 1.2 | 10 |
| 83 | A temperature-dependent gain control system for improving the stability of Si-PM-based PET systems. Physics in Medicine and Biology, 2011, 56, 2873-2882. | 3.0 | 34 |
| 84 | Interference between PET and MRI sub-systems in a silicon-photomultiplier-based PET/MRI system. Physics in Medicine and Biology, 2011, 56, 4147-4159. | 3.0 | 61 |
| 85 | Performance comparison of Si-PM-based block detectors with different pixel sizes for an ultrahigh-resolution small-animal PET system. Physics in Medicine and Biology, 2011, 56, N227-N236. | 3.0 | 24 |
| 86 | Development of a high-resolution Si-PM-based gamma camera system. Physics in Medicine and Biology, 2011, 56, 7555-7567. | 3.0 | 36 |
| 87 | Conceptual design of high spatial-resolution SPECT system for human brain. , 2011, , . | | 0 |
| 88 | Wavelet-based resolution recovery using anatomical prior provides quantitative recovery for human population phantom PET [¹¹ C]raclopride data. , 2011, , . | | 0 |
| 89 | Quantification of regional myocardial oxygen metabolism in normal pigs using positron emission tomography with injectable 15O-O ₂ . European Journal of Nuclear Medicine and Molecular Imaging, 2010, 37, 377-385. | 6.4 | 7 |
| 90 | Development of motion correction technique for cardiac 15O-water PET study using an optical motion tracking system. Annals of Nuclear Medicine, 2010, 24, 1-11. | 2.2 | 11 |

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| 91 | Optimization of transmission scan duration for ^{15}O PET study with sequential dual tracer administration using N-index. <i>Annals of Nuclear Medicine</i> , 2010, 24, 413-420. | 2.2 | 4 |
| 92 | Measurement of Density and Affinity for Dopamine D2 Receptors by a Single Positron Emission Tomography Scan with Multiple Injections of [^{11}C]raclopride. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2010, 30, 663-673. | 4.3 | 8 |
| 93 | Multicenter Evaluation of a Standardized Protocol for Rest and Acetazolamide Cerebral Blood Flow Assessment Using a Quantitative SPECT Reconstruction Program and Split-Dose ^{123}I -Iodoamphetamine. <i>Journal of Nuclear Medicine</i> , 2010, 51, 1624-1631. | 5.0 | 69 |
| 94 | Development of a Si-PM-based high-resolution PET system for small animals. <i>Physics in Medicine and Biology</i> , 2010, 55, 5817-5831. | 3.0 | 118 |
| 95 | Long-term observation of auto-cell transplantation in non-human primate reveals safety and efficiency of bone marrow stromal cell-derived Schwann cells in peripheral nerve regeneration. <i>Experimental Neurology</i> , 2010, 223, 537-547. | 4.1 | 107 |
| 96 | Conceptual design of high resolution and quantitative SPECT system for imaging a selected small ROI of human brain. , 2009, , . | | 4 |
| 97 | Influence of residual oxygen-15-labeled carbon monoxide radioactivity on cerebral blood flow and oxygen extraction fraction in a dual-tracer autoradiographic method. <i>Annals of Nuclear Medicine</i> , 2009, 23, 363-371. | 2.2 | 5 |
| 98 | Evaluation of utility of asymmetric index for count-based oxygen extraction fraction on dual-tracer autoradiographic method for chronic unilateral brain infarction. <i>Annals of Nuclear Medicine</i> , 2009, 23, 533-539. | 2.2 | 1 |
| 99 | Use of a clinical MRI scanner for preclinical research on rats. <i>Radiological Physics and Technology</i> , 2009, 2, 13-21. | 1.9 | 11 |
| 100 | A Physiologic Model for Recirculation Water Correction in CMRO_{2} Assessment with ^{15}O Inhalation PET. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2009, 29, 355-364. | 4.3 | 23 |
| 101 | Quantitative analysis of donepezil binding to acetylcholinesterase using positron emission tomography and [^{11}C -methoxy]donepezil. <i>NeuroImage</i> , 2009, 46, 616-623. | 4.2 | 28 |
| 102 | Quantitative evaluation of changes in binding potential with a simplified reference tissue model and multiple injections of [^{11}C]raclopride. <i>NeuroImage</i> , 2009, 47, 1639-1648. | 4.2 | 17 |
| 103 | Absolute quantitation of myocardial blood flow with ^{201}Tl and dynamic SPECT in canine: optimisation and validation of kinetic modelling. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2008, 35, 896-905. | 6.4 | 45 |
| 104 | PET kinetic analysis: error consideration of quantitative analysis in dynamic studies. <i>Annals of Nuclear Medicine</i> , 2008, 22, 1-11. | 2.2 | 28 |
| 105 | Optimal scan time of oxygen-15-labeled gas inhalation autoradiographic method for measurement of cerebral oxygen extraction fraction and cerebral oxygen metabolic rate. <i>Annals of Nuclear Medicine</i> , 2008, 22, 667-675. | 2.2 | 14 |
| 106 | Three-dimensional SPECT reconstruction with transmission-dependent scatter correction. <i>Annals of Nuclear Medicine</i> , 2008, 22, 549-556. | 2.2 | 10 |
| 107 | Clinical usability of a compact high resolution detector for high resolution and quantitative SPECT imaging in a selected small ROI. , 2008, , . | | 1 |
| 108 | Combination of a high resolution detector with small FOV and a low resolution detector with large FOV for high resolution and quantitative SPECT. , 2008, , . | | 1 |

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|-----|--|-----|-----------|
| 109 | Separation of input function for rapid measurement of quantitative CMRO ₂ and CBF in a single PET scan with a dual tracer administration method. <i>Physics in Medicine and Biology</i> , 2007, 52, 1893-1908. | 3.0 | 33 |
| 110 | Body-contour versus circular orbit acquisition in cardiac SPECT: Assessment of defect detectability with channelized Hotelling observer. <i>Nuclear Medicine Communications</i> , 2007, 28, 937-942. | 1.1 | 3 |
| 111 | 3D-OSEM Reconstruction from truncated data in pinhole SPECT. , 2007, , . | | 3 |
| 112 | PET kinetic analysis – Pitfalls and a solution for the Logan plot. <i>Annals of Nuclear Medicine</i> , 2007, 21, 1-8. | 2.2 | 39 |
| 113 | PET kinetic analysis: wavelet denoising of dynamic PET data with application to parametric imaging. <i>Annals of Nuclear Medicine</i> , 2007, 21, 379-386. | 2.2 | 31 |
| 114 | Accelerated 3D-OSEM image reconstruction using a Beowulf PC cluster for pinhole SPECT. <i>Annals of Nuclear Medicine</i> , 2007, 21, 537-543. | 2.2 | 1 |
| 115 | The Validity and Value of a Quantitative SPECT Reconstruction Package (QSPECT) for evaluating Multi-center Clinical Trials (<SPECIAL ISSUE>Recent Advances in SPECT and PET in the Diagnosis of Tj ETQq1 1 0.784314 rgbB / Overlo | | |
| 116 | Blood flow analysis for Leukocytapheresis Column. , 2007, , 2588-2590. | | 0 |
| 117 | Body-Contour Acquisition Versus Circular Orbit Acquisition with Resolution Recovery in Cardiac SPECT. , 2006, , . | | 0 |
| 118 | Quantitative mapping of basal and vasoreactive cerebral blood flow using split-dose 123I-iodoamphetamine and single photon emission computed tomography. <i>NeuroImage</i> , 2006, 33, 1126-1135. | 4.2 | 45 |
| 119 | Comparison of multi-ray and point-spread function based resolution recovery methods in pinhole SPECT reconstruction. <i>Nuclear Medicine Communications</i> , 2006, 27, 823-827. | 1.1 | 8 |
| 120 | Estimation of Oxygen Metabolism in a Rat Model of Permanent Ischemia Using Positron Emission Tomography with Injectable 15O-O ₂ . <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2006, 26, 1577-1583. | 4.3 | 19 |
| 121 | PET kinetic analysis – compartmental model. <i>Annals of Nuclear Medicine</i> , 2006, 20, 583-588. | 2.2 | 164 |
| 122 | Predicting human performance by channelized Hotelling observer in discriminating between Alzheimer’s dementia and controls using statistically processed brain perfusion SPECT. <i>Annals of Nuclear Medicine</i> , 2006, 20, 605-613. | 2.2 | 9 |
| 123 | Use of a compact pixellated gamma camera for small animal pinhole SPECT imaging. <i>Annals of Nuclear Medicine</i> , 2006, 20, 409-416. | 2.2 | 32 |
| 124 | Performance of list mode data acquisition with ECAT EXACT HR and ECAT EXACT HR+ positron emission scanners. <i>Annals of Nuclear Medicine</i> , 2006, 20, 189-194. | 2.2 | 6 |
| 125 | System design and development of a pinhole SPECT system for quantitative functional imaging of small animals. <i>Annals of Nuclear Medicine</i> , 2006, 20, 245-251. | 2.2 | 16 |
| 126 | Rapid Quantitative Measurement of CMRO ₂ and CBF by Dual Administration of 15O-Labeled Oxygen and Water During a Single PET Scan – a Validation Study and Error Analysis in Anesthetized Monkeys. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005, 25, 1209-1224. | 4.3 | 76 |

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|-----|--|-----|-----------|
| 127 | Development of a practical image-based scatter correction method for brain perfusion SPECT: comparison with the TEW method. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2005, 32, 1193-1198. | 6.4 | 5 |
| 128 | Use of reference tissue models for quantification of histamine H1 receptors in human brain by using positron emission tomography and [¹¹ C]doxepin. <i>Annals of Nuclear Medicine</i> , 2005, 19, 425-433. | 2.2 | 18 |
| 129 | Understanding of cerebral energy metabolism by dynamic living brain slice imaging system with [¹⁸ F]FDG. <i>Neuroscience Research</i> , 2005, 52, 357-361. | 1.9 | 10 |
| 130 | Rapid CBF/CMRO ₂ measurement in a single PET scan with dual tracer administration. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005, 25, S672-S672. | 4.3 | 1 |
| 131 | Parametric imaging of myocardial blood flow with ¹⁵ O-water and PET using the basis function method. <i>Journal of Nuclear Medicine</i> , 2005, 46, 1219-24. | 5.0 | 45 |
| 132 | A new reconstruction strategy for image improvement in pinhole SPECT. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2004, 31, 1166-72. | 6.4 | 27 |
| 133 | Cerebral decreases in opioid receptor binding in patients with central neuropathic pain measured by [¹¹ C]diprenorphine binding and PET. <i>European Journal of Pain</i> , 2004, 8, 479-485. | 2.8 | 135 |
| 134 | Adenosine-induced myocardial flow reactivity in pig as assessed with O-15 water PET. <i>International Congress Series</i> , 2004, 1264, 117-125. | 0.2 | 0 |
| 135 | A physiological model for cerebral oxygen delivery and consumption and effective oxygen diffusibility evaluated by PET. <i>International Congress Series</i> , 2004, 1265, 228-237. | 0.2 | 2 |
| 136 | Measurement of cerebral blood flow with dynamic susceptibility contrast MRI and comparison with O-15 positron emission tomography. <i>International Congress Series</i> , 2004, 1265, 150-158. | 0.2 | 2 |
| 137 | Development of a Hyperpolarized ¹²⁹ Xe System on 3T for the Rat Lungs. <i>Magnetic Resonance in Medical Sciences</i> , 2004, 3, 1-9. | 2.0 | 0 |
| 138 | Evaluation of penetration and scattering components in conventional pinhole SPECT: phantom studies using Monte Carlo simulation. <i>Physics in Medicine and Biology</i> , 2003, 48, 995-1008. | 3.0 | 28 |
| 139 | Dependency of energy and spatial distributions of photons on edge of object in brain SPECT. <i>Annals of Nuclear Medicine</i> , 2003, 17, 99-106. | 2.2 | 1 |
| 140 | A Theoretical Model of Oxygen Delivery and Metabolism for Physiologic Interpretation of Quantitative Cerebral Blood Flow and Metabolic Rate of Oxygen. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2003, 23, 1314-1323. | 4.3 | 67 |
| 141 | Accelerated median root prior reconstruction for pinhole single-photon emission tomography (SPET). <i>Physics in Medicine and Biology</i> , 2003, 48, 1957-1969. | 3.0 | 9 |
| 142 | Contribution of scatter and attenuation compensation to SPECT images of nonuniformly distributed brain activities. <i>Journal of Nuclear Medicine</i> , 2003, 44, 512-9. | 5.0 | 25 |
| 143 | Evaluation of a commercial PET tomograph-based system for the quantitative assessment of rCBF, rOEF and rCMRO ₂ by using sequential administration of ¹⁵ O-labeled compounds. <i>Annals of Nuclear Medicine</i> , 2002, 16, 317-327. | 2.2 | 37 |
| 144 | Correction of Head Movement Using an Optical Motion Tracking System during PET in a Rhesus Monkey. , 2002, , 1-7. | | 6 |

| # | ARTICLE | IF | CITATIONS |
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| 145 | Shortening rCBF Measurement Interval in [15O]H2O PET. , 2002, , 195-200. | | 1 |
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