# Eiji Yoshida

## List of Publications by Year in Descending Order



| | | | |
|---|---|---|---|
| 38 papers | 678 citations | 14 h-index | 25 g-index |
| 39 ext. papers | 907 ext. citations | 3 avg, IF | 3.67 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 38 | Gapless implementation of crosshair light-sharing PET detector. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2022**, 1021, 165922 | 1.2 | |
| 37 | First imaging demonstration of a crosshair light-sharing PET detector. *Physics in Medicine and Biology*, **2021**, 66, 065013 | 3.8 | 1 |
| 36 | A Crosshair Light Sharing PET Detector With DOI and TOF Capabilities Using Four-to-One Coupling and Single-Ended Readout. *IEEE Transactions on Radiation and Plasma Medical Sciences*, **2021**, 5, 638-644 | 4.2 | 6 |
| 35 | Evaluation of a Hamamatsu TOF-PET Detector Module With 3.2-mm Pitch LFS Scintillators and a 256-Channel SiPM Array. *IEEE Transactions on Radiation and Plasma Medical Sciences*, **2021**, 5, 645-650 | 4.2 | 3 |
| 34 | Whole gamma imaging: a new concept of PET combined with Compton imaging. *Physics in Medicine and Biology*, **2020**, 65, 125013 | 3.8 | 24 |
| 33 | 245 ps-TOF brain-dedicated PET prototype with a hemispherical detector arrangement. *Physics in Medicine and Biology*, **2020**, 65, 145008 | 3.8 | 11 |
| 32 | Dose quantification in carbon ion therapy using in-beam positron emission tomography. *Physics in Medicine and Biology*, **2020**, 65, 235052 | 3.8 | 2 |
| 31 | 3D Compton image reconstruction method for whole gamma imaging. *Physics in Medicine and Biology*, **2020**, 65, 225038 | 3.8 | 5 |
| 30 | Design study of a brain-dedicated time-of-flight PET system with a hemispherical detector arrangement. *Physics in Medicine and Biology*, **2020**, 65, 035012 | 3.8 | 5 |
| 29 | Development of Single-Ended Readout DOI Detector With Quadrisected Crystals. *IEEE Transactions on Radiation and Plasma Medical Sciences*, **2020**, 4, 563-569 | 4.2 | 7 |
| 28 | Development of a Multiuse Human-Scale Single-Ring OpenPET System. *IEEE Transactions on Radiation and Plasma Medical Sciences*, **2020**, 1-1 | 4.2 | 0 |
| 27 | First prototyping of a dedicated PET system with the hemisphere detector arrangement. *Physics in Medicine and Biology*, **2019**, 64, 065004 | 3.8 | 17 |
| 26 | Range verification of radioactive ion beams of C and O using in-beam PET imaging. *Physics in Medicine and Biology*, **2019**, 64, 145014 | 3.8 | 9 |
| 25 | Comparative study of alternative Geant4 hadronic ion inelastic physics models for prediction of positron-emitting radionuclide production in carbon and oxygen ion therapy. *Physics in Medicine and Biology*, **2019**, 64, 155014 | 3.8 | 5 |
| 24 | Development of a dual-end detector with TOF and DOI capabilities using crystal bars segmented by subsurface laser engraving. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2019**, 931, 236-241 | 1.2 | 5 |
| 23 | Four-layered DOI-PET detector with quadrisected top layer crystals. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2019**, 933, 1-7 | 1.2 | 5 |
| 22 | Monte Carlo investigation of the characteristics of radioactive beams for heavy ion therapy. *Scientific Reports*, **2019**, 9, 6537 | 4.9 | 7 |

| | | | |
|---|---|---|---|
| 21 | Performance evaluation of a whole-body prototype PET scanner with four-layer DOI detectors. *Physics in Medicine and Biology*, **2019**, 64, 095014 | 3.8 | 19 |
| 20 | Modified NEMA NU-2 performance evaluation methods for a brain-dedicated PET system with a hemispherical detector arrangement. *Biomedical Physics and Engineering Express*, **2019**, 6, 015012 | 1.5 | 2 |
| 19 | Integrated treatment using intraperitoneal radioimmunotherapy and positron emission tomography-guided surgery with Cu-labeled cetuximab to treat early- and late-phase peritoneal dissemination in human gastrointestinal cancer xenografts. *Oncotarget*, **2018**, 9, 28935-28950 | 3.3 | 10 |
| 18 | Development of the X□al Cube PET Detector With Segments of (0.77 mm)3. *IEEE Transactions on Radiation and Plasma Medical Sciences*, **2018**, 2, 564-573 | 4.2 | 2 |
| 17 | Production of an 15 O beam using a stable oxygen ion beam for in-beam PET imaging. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2017**, 849, 76-82 | 1.2 | 15 |
| 16 | Development of a Whole-Body Dual Ring OpenPET for in-Beam PET. *IEEE Transactions on Radiation and Plasma Medical Sciences*, **2017**, 1, 293-300 | 4.2 | 30 |
| 15 | Development of a small single-ring OpenPET prototype with a novel transformable architecture. *Physics in Medicine and Biology*, **2016**, 61, 1795-809 | 3.8 | 41 |
| 14 | Parameter Optimization of a Digital Photon Counter Coupled to a Four-Layered DOI Crystal Block With Light Sharing. *IEEE Transactions on Nuclear Science*, **2015**, 62, 748-755 | 1.7 | 5 |
| 13 | Reduction method for intrinsic random coincidence events from (176)Lu in low activity PET imaging. *Radiological Physics and Technology*, **2014**, 7, 235-45 | 1.7 | 7 |
| 12 | X□al Cube PET Detector Composed of a Stack of Scintillator Plates Segmented by Laser Processing. *IEEE Transactions on Nuclear Science*, **2014**, 61, 53-59 | 1.7 | 8 |
| 11 | Performance evaluation of a depth-of-interaction detector by use of position-sensitive PMT with a super-bialkali photocathode. *Radiological Physics and Technology*, **2014**, 7, 57-66 | 1.7 | 20 |
| 10 | Development of a single-ring OpenPET prototype. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2013**, 729, 800-808 | 1.2 | 12 |
| 9 | Potential for reducing the numbers of SiPM readout surfaces of laser-processed X'tal cube PET detectors. *Physics in Medicine and Biology*, **2013**, 58, 1361-74 | 3.8 | 10 |
| 8 | Compartmental analysis of washout effect in rat brain: in-beam OpenPET measurement using a (11)C beam. *Physics in Medicine and Biology*, **2013**, 58, 8281-94 | 3.8 | 16 |
| 7 | Development of the X'tal Cube: A 3D Position-Sensitive Radiation Detector With All-Surface MPPC Readout. *IEEE Transactions on Nuclear Science*, **2012**, 59, 462-468 | 1.7 | 22 |
| 6 | A single-ring OpenPET enabling PET imaging during radiotherapy. *Physics in Medicine and Biology*, **2012**, 57, 4705-18 | 3.8 | 72 |
| 5 | Development of a small prototype for a proof-of-concept of OpenPET imaging. *Physics in Medicine and Biology*, **2011**, 56, 1123-37 | 3.8 | 84 |
| 4 | Simulation design of a single-ring OpenPET for in-beam PET **2011**, | | 4 |

| | | | |
|---|---|---|---|
| 3 | A SiPM-based isotropic-3D PET detector X'tal cube with a three-dimensional array of 1 mm(3) crystals. *Physics in Medicine and Biology*, **2011**, 56, 6793-807 | 3.8 | 68 |
| 2 | A proposal of an open PET geometry. *Physics in Medicine and Biology*, **2008**, 53, 757-73 | 3.8 | 99 |
| 1 | Annihilation photon acollinearity in PET: volunteer and phantom FDG studies. *Physics in Medicine and Biology*, **2007**, 52, 5249-61 | 3.8 | 20 |