

Mitsutaka Yamaguchi

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

661
citations

516561

16
h-index

580701

25
g-index

40
all docs

40
docs citations

40
times ranked

426
citing authors

#	ARTICLE	IF	CITATIONS
1	First demonstration of multi-color 3-D in vivo imaging using ultra-compact Compton camera. Scientific Reports, 2017, 7, 2110.	1.6	66
2	Beam range estimation by measuring bremsstrahlung. Physics in Medicine and Biology, 2012, 57, 2843-2856.	1.6	48
3	Imaging of ^{99m}Tc -DMSA and ^{18}F -FDG in humans using a Si/CdTe Compton camera. Physics in Medicine and Biology, 2020, 65, 05LT01.	1.6	41
4	<i>In vivo</i> simultaneous imaging with ^{99m}Tc and ^{18}F using a Compton camera. Physics in Medicine and Biology, 2018, 63, 205006.	1.6	40
5	Secondary-electron-bremsstrahlung imaging for proton therapy. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 833, 199-207.	0.7	37
6	Development of a low-energy x-ray camera for the imaging of secondary electron bremsstrahlung x-ray emitted during proton irradiation for range estimation. Physics in Medicine and Biology, 2017, 62, 5006-5020.	1.6	37
7	Imaging of monochromatic beams by measuring secondary electron bremsstrahlung for carbon-ion therapy using a pinhole x-ray camera. Physics in Medicine and Biology, 2018, 63, 045016.	1.6	37
8	Source of luminescence of water lower energy than the Cerenkov-light threshold during irradiation of carbon-ion. Journal of Physics Communications, 2018, 2, 065010.	0.5	30
9	Estimation and correction of produced light from prompt gamma photons on luminescence imaging of water for proton therapy dosimetry. Physics in Medicine and Biology, 2018, 63, 04NT02.	1.6	29
10	Development of a YAP(Ce) camera for the imaging of secondary electron bremsstrahlung x-ray emitted during carbon-ion irradiation toward the use of clinical conditions. Physics in Medicine and Biology, 2019, 64, 135019.	1.6	28
11	Three-dimensional and Multienergy Gamma-ray Simultaneous Imaging by Using a Si/CdTe Compton Camera. Radiology, 2013, 267, 941-947.	3.6	23
12	High-resolution Compton cameras based on Si/CdTe double-sided strip detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 695, 179-183.	0.7	22
13	Applications and Imaging Techniques of a Si/CdTe Compton Gamma-Ray Camera. Physics Procedia, 2012, 37, 859-866.	1.2	22
14	Monitoring of positron using high-energy gamma camera for proton therapy. Annals of Nuclear Medicine, 2015, 29, 268-275.	1.2	20
15	Astatine-211 imaging by a Compton camera for targeted radiotherapy. Applied Radiation and Isotopes, 2018, 139, 238-243.	0.7	19
16	Sensitivity improvement of YAP(Ce) cameras for imaging of secondary electron bremsstrahlung x-rays emitted during carbon-ion irradiation: problem and solution. Physics in Medicine and Biology, 2020, 65, 105008.	1.6	16
17	Dose image prediction for range and width verifications from carbon ion-induced secondary electron bremsstrahlung x-rays using deep learning workflow. Medical Physics, 2020, 47, 3520-3532.	1.6	15
18	Effect of number of views on cross-sectional Compton imaging: A fundamental study with backprojection. Physica Medica, 2018, 56, 1-9.	0.4	14

#	ARTICLE	IF	CITATIONS
19	Estimation of shifts of therapeutic carbon-ion beams owing to cavities in a polyethylene target by measuring prompt X-ray images. Japanese Journal of Applied Physics, 2020, 59, 087001.	0.8	12
20	Study on silicon-slicing technique using plasma-etching processing. Solar Energy Materials and Solar Cells, 2009, 93, 789-791.	3.0	11
21	Fruit PET: 3-D imaging of carbon distribution in fruit using OpenPET. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 954, 161843.	0.7	11
22	Noninvasive imaging of hollow structures and gas movement revealed the gas partial pressure gradient-driven long-distance gas movement in the aerenchyma along the leaf blade to submerged organs in rice. New Phytologist, 2021, 232, 1974-1984.	3.5	10
23	Monte Carlo simulation of photon emission below a few hundred kiloelectronvolts for beam monitoring in carbon ion therapy. Review of Scientific Instruments, 2017, 88, 014301.	0.6	8
24	Development of a cost-effective Compton camera using a positron emission tomography data acquisition system. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 912, 20-23.	0.7	8
25	Crosstalk Reduction Using a Dual Energy Window Scatter Correction in Compton Imaging. Sensors, 2020, 20, 2453.	2.1	8
26	Detection of a gas region in a human body across a therapeutic carbon beam by measuring low-energy photons. International Journal of PIXE, 2016, 26, 61-72.	0.4	7
27	A simulation study on reduction of the background component using veto counters for imaging of therapeutic proton beams by measuring secondary electron bremsstrahlung using a parallel-hole collimator. Japanese Journal of Applied Physics, 2019, 58, 021005.	0.8	6
28	A novel estimation method of water-equivalent thicknesses of secondary particle tracks using secondary electron bremsstrahlung emitted from therapeutic ion beams for attenuation correction. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 954, 161607.	0.7	4
29	A Simulation Study on Estimation of Bragg-Peak Shifts via Machine Learning Using Proton-Beam Images Obtained by Measurement of Secondary Electron Bremsstrahlung. IEEE Transactions on Radiation and Plasma Medical Sciences, 2020, 4, 253-261.	2.7	4
30	Development of an Easy and Simple Method to Measure the Environmental Radioactivity in Trees with Efficient Personal Dosimeters. Radioisotopes, 2018, 67, 427-434.	0.1	3
31	Visualization of Particle Ion Beams Using Imaging Plates. Radioisotopes, 2022, 71, 109-114.	0.1	3
32	A monitoring system of radioactive tracers in hydroponic solution for research on plant physiology. , 2009, , .		2
33	Estimation of energy range measurements with newly developed Si/CdTe Compton camera for nuclear medicine imaging. , 2010, , .		2
34	Development of head module for multi-head Si/CdTe Compton camera for medical applications. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 648, S2-S7.	0.7	2
35	An evaluation of three-dimensional imaging by use of Si/CdTe Compton cameras. , 2013, , .		2
36	Non-invasive imaging of radiocesium dynamics in a living animal using a positron-emitting ¹²⁷ Cs tracer. Scientific Reports, 2020, 10, 16155.	1.6	2

#	ARTICLE	IF	CITATIONS
37	Spatial resolution of multi-head Si/CdTe Compton camera for medical application. , 2009, , .		1
38	A new method for monitoring beam range by measuring low energy photons. , 2013, , .		0
39	Simulation evaluation on a compact monitor for gamma-emitting tracers in plant stems. Japanese Journal of Applied Physics, 2022, 61, 027001.	0.8	0