

Wonho Lee

List of Publications by Year in descending order

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52
papers

380
citations

759233

12
h-index

888059

17
g-index

55
all docs

55
docs citations

55
times ranked

322
citing authors

#	ARTICLE	IF	CITATIONS
1	Dose reduction in CT using bismuth shielding: measurements and Monte Carlo simulations. Radiation Protection Dosimetry, 2010, 138, 382-388.	0.8	26
2	Radiation measurement and imaging using 3D position sensitive pixelated CZT detector. Nuclear Engineering and Technology, 2019, 51, 1417-1427.	2.3	26
3	A compact Compton camera using scintillators for the investigation of nuclear materials. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 624, 118-124.	1.6	24
4	An array of virtual Frisch-grid CdZnTe detectors and a front-end application-specific integrated circuit for large-area position-sensitive gamma-ray cameras. Review of Scientific Instruments, 2015, 86, 073114.	1.3	19
5	A Dual Modality Gamma Camera Using ${}^m\text{LaCl}_3({}^m\text{Ce})$ Scintillator. IEEE Transactions on Nuclear Science, 2009, 56, 308-315.	2.0	18
6	Mini Compton Camera Based on an Array of Virtual Frisch-Grid CdZnTe Detectors. IEEE Transactions on Nuclear Science, 2016, 63, 259-265.	2.0	18
7	On the symbol error rates for signal space diversity schemes over a rician fading channel. IEEE Transactions on Communications, 2009, 57, 2204-2209.	7.8	17
8	Dose reduction and image quality assessment in MDCT using AEC (D-DOM & Z-DOM) and in-plane bismuth shielding. Radiation Protection Dosimetry, 2010, 141, 162-167.	0.8	17
9	Estimation of proton distribution by means of three-dimensional reconstruction of prompt gamma rays. Applied Physics Letters, 2010, 97, .	3.3	16
10	Monitoring the distribution of prompt gamma rays in boron neutron capture therapy using a multiple-scattering Compton camera: A Monte Carlo simulation study. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 798, 135-139.	1.6	16
11	Monte Carlo Simulation on 4p Field of View Compact Compton Camera Using Scintillators. Journal of the Korean Physical Society, 2010, 56, 20-27.	0.7	15
12	Compact hybrid gamma camera with a coded aperture for investigation of nuclear materials. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 767, 5-13.	1.6	13
13	Dose evaluation of selective collimation effect in cephalography by measurement and Monte Carlo simulation. Radiation Protection Dosimetry, 2012, 148, 58-64.	0.8	12
14	Simulation for CZT Compton PET (Maximization of the efficiency for PET using Compton event). Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 652, 713-716.	1.6	11
15	Hybrid gamma ray imaging Model and results. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 579, 200-204.	1.6	10
16	4p FOV compact Compton camera for nuclear material investigations. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 652, 33-36.	1.6	10
17	3D Non-Destructive Fluorescent X-Ray Computed Tomography With a CdTe Array. IEEE Transactions on Nuclear Science, 2016, 63, 1844-1853.	2.0	9
18	Double-Layered CZT Compton Imager. IEEE Transactions on Nuclear Science, 2017, 64, 1769-1773.	2.0	9

#	ARTICLE	IF	CITATIONS
19	Evaluation of dual $\hat{1}^3$ -ray imager with active collimator using various types of scintillators. Applied Radiation and Isotopes, 2011, 69, 1560-1567.	1.5	8
20	Portable Active Collimation Imager Using URA Patterned Scintillator. IEEE Transactions on Nuclear Science, 2014, 61, 654-662.	2.0	7
21	Optimization of a multiple-scattering Compton camera as a photon-tracking imager for 6-MV photon therapy. Journal of the Korean Physical Society, 2014, 64, 1745-1750.	0.7	7
22	A cubic gamma camera with an active collimator. Applied Radiation and Isotopes, 2014, 90, 102-108.	1.5	7
23	Multiple scattering Compton camera with neutron activation for material inspection. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 784, 423-429.	1.6	7
24	Development of a Position-Sensitive 4€ Compton Camera Based on a Single Segmented Scintillator. IEEE Transactions on Nuclear Science, 2020, 67, 2511-2522.	2.0	7
25	Estimation of Compton imager using single 3D position-sensitive LYSO scintillator: Monte Carlo simulation. Journal of the Korean Physical Society, 2017, 71, 70-76.	0.7	5
26	Investigation of nuclear material using a compact modified uniformly redundant array gamma camera. Nuclear Engineering and Technology, 2018, 50, 923-928.	2.3	5
27	Optimization of a Hybrid Gamma Camera Using $\text{LaCl}_3(\text{Ce})$ Scintillators. Journal of the Korean Physical Society, 2009, 54, 1427-1438.	0.7	5
28	Performance evaluation of a Compton SPECT imager for determining the position and distribution of ^{225}Ac in targeted alpha therapy: A Monte Carlo simulation based phantom study. Applied Radiation and Isotopes, 2019, 154, 108893.	1.5	4
29	Evaluation of sequence tracking methods for Compton cameras based on CdZnTe arrays. Nuclear Engineering and Technology, 2021, 53, 4080-4092.	2.3	4
30	Advanced PET using both compton and photoelectric events. Journal of the Korean Physical Society, 2012, 61, 626-629.	0.7	3
31	Fluorescence X-ray computed tomography (FXCT) using a position-sensitive CdTe detector. Journal of the Korean Physical Society, 2014, 64, 122-128.	0.7	3
32	High performance $\hat{1}^3$ -ray imager using dual anti-mask method for the investigation of high-energy nuclear materials. Nuclear Engineering and Technology, 2021, 53, 2371-2376.	2.3	3
33	Multiple Modality γ -Ray Imager Using $\text{LaCl}_3(\text{Ce})$ Scintillators With Active Collimation Method. IEEE Transactions on Nuclear Science, 2010, 57, 1396-1403.	2.0	2
34	Portable and active collimation imager using URA patterned scintillator. , 2011, , .		2
35	Monitoring the dose distribution of therapeutic photons on Korean Typical Man-2 phantom (KTMAN-2) by using multiple-scattering Compton camera. , 2014, , .		2
36	Adaptation of filtered back-projection to compton imaging with non-uniform azimuthal geometry. Journal of the Korean Physical Society, 2016, 68, 1156-1164.	0.7	2

#	ARTICLE	IF	CITATIONS
37	Performance evaluation of a multiple-scattering Compton imager for distribution of prompt gamma-rays in proton therapy. Journal of the Korean Physical Society, 2017, 70, 184-191.	0.7	2
38	High-Performance Compton SPECT Using Both Photoelectric and Compton Scattering Events. Journal of the Korean Physical Society, 2018, 73, 1393-1398.	0.7	2
39	Performance of a virtual frisch-grid CdZnTe detector for prompt $\hat{3}$ -ray induced by $14\hat{e}$ -MeV neutrons: Monte Carlo simulation study. Applied Radiation and Isotopes, 2019, 153, 108818.	1.5	2
40	Brass Material Analysis With Deep-Learning-Based CdTe Semiconductor X-Ray Fluorescence System. IEEE Transactions on Nuclear Science, 2022, 69, 1085-1091.	2.0	2
41	The effects of pre-emptive low-dose X-ray irradiation on MIA induced inflammatory pain in rats. Journal of the Korean Physical Society, 2013, 63, 269-275.	0.7	1
42	Evaluation of the Monte Carlo method (KTMAN-2) in fluoroscopic dosimetry and comparison with experiment. Journal of the Korean Physical Society, 2014, 64, 936-940.	0.7	1
43	X-Ray Fluorescence Imaging Based on CdTe Detector Array for Analysis of Various Materials. IEEE Transactions on Nuclear Science, 2020, 67, 2523-2534.	2.0	1
44	4 \times field of view active collimation imager. , 2012, , .		0
45	A study on CZT and scintillator based micro-PETs with Compton Tracing Technology. , 2014, , .		0
46	Advanced Compton imagers: From universal exploration down to earth investigation and medical application. , 2015, , .		0
47	Monitoring 3D dose distributions in proton therapy by reconstruction using an iterative method. Applied Radiation and Isotopes, 2016, 114, 33-39.	1.5	0
48	Monitoring of Dose Distribution in Photon Therapy With Multiple-Scattering Compton Camera: A Monte Carlo Simulation Study. IEEE Transactions on Nuclear Science, 2016, 63, 2801-2806.	2.0	0
49	An inner-crystal neutron-scatter camera: Monte carlo simulation. Journal of the Korean Physical Society, 2016, 68, 1126-1131.	0.7	0
50	A Compton camera using a single 3D positionsensitive LYSO scintillator. , 2017, , .		0
51	Single-Photon-Emission Computed Tomography with Neutron Activation for Material Inspection. Journal of the Korean Physical Society, 2018, 73, 877-882.	0.7	0
52	Performance Evaluation of Compton Micro-PET for Detector Modalities: A Monte Carlo Study. Nuclear Technology, 2018, 204, 386-395.	1.2	0