Chan Hyeong Kim

List of Publications by Year
in descending order

157 papers	1,929 citations	304602 22 h-index	315616 38 g-index
158 all docs	158 docs citations	158 times ranked	1192 citing authors

#	Article	IF	Citations
1	Prompt gamma measurements for locating the dose falloff region in the proton therapy. Applied Physics Letters, 2006, 89, 183517.	1.5	362
2	Development of array‐type prompt gamma measurement system for <i>in vivo</i> range verification in proton therapy. Medical Physics, 2012, 39, 2100-2107.	1.6	92
3	HDRK-Man: a whole-body voxel model based on high-resolution color slice images of a Korean adult male cadaver. Physics in Medicine and Biology, 2008, 53, 4093-4106.	1.6	76
4	Tetrahedral-mesh-based computational human phantom for fast Monte Carlo dose calculations. Physics in Medicine and Biology, 2014, 59, 3173-3185.	1.6	71
5	Validation Test of Geant4 Simulation of Electron Backscattering. IEEE Transactions on Nuclear Science, 2015, 62, 451-479.	1.2	63
6	Advances in Computational Human Phantoms and Their Applications in Biomedical Engineering—A Topical Review. IEEE Transactions on Radiation and Plasma Medical Sciences, 2019, 3, 1-23.	2.7	58
7	A polygon-surface reference Korean male phantom (PSRK-Man) and its direct implementation in Geant4 Monte Carlo simulation. Physics in Medicine and Biology, 2011, 56, 3137-3161.	1.6	56
8	Investigation of Geant4 Simulation of Electron Backscattering. IEEE Transactions on Nuclear Science, 2015, 62, 1805-1812.	1.2	47
9	HDRK-Woman: whole-body voxel model based on high-resolution color slice images of Korean adult female cadaver. Physics in Medicine and Biology, 2014, 59, 3969-3984.	1.6	38
10	Conversion of ICRP male reference phantom to polygon-surface phantom. Physics in Medicine and Biology, 2013, 58, 6985-7007.	1.6	36
11	Validation of Cross Sections for Monte Carlo Simulation of the Photoelectric Effect. IEEE Transactions on Nuclear Science, 2016, 63, 1117-1146.	1.2	34
12	Monte Carlo Simulation Study on Dose Enhancement by Gold Nanoparticles in Brachytherapy. Journal of the Korean Physical Society, 2010, 56, 1754-1758.	0.3	31
13	Incorporation of detailed eye model into polygon-mesh versions of ICRP-110 reference phantoms. Physics in Medicine and Biology, 2015, 60, 8695-8707.	1.6	29
14	PARaDIM: A PHITS-Based Monte Carlo Tool for Internal Dosimetry with Tetrahedral Mesh Computational Phantoms. Journal of Nuclear Medicine, 2019, 60, 1802-1811.	2.8	27
15	Gamma electron vertex imaging and application to beam range verification in proton therapy. Medical Physics, 2012, 39, 1001-1005.	1.6	26
16	Resolution recovery reconstruction for a Compton camera. Physics in Medicine and Biology, 2013, 58, 2823-2840.	1.6	26
17	Inclusion of thin target and source regions in alimentary and respiratory tract systems of mesh-type ICRP adult reference phantoms. Physics in Medicine and Biology, 2017, 62, 2132-2152.	1.6	25
18	Development of double-scattering-type Compton camera with double-sided silicon strip detectors and NaI(Tl) scintillation detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 615, 333-339.	0.7	24

#	ARTICLE	IF	CITATIONS
19	Fully three-dimensional OSEM-based image reconstruction for Compton imaging using optimized ordering schemes. Physics in Medicine and Biology, 2010, 55, 5007-5027.	1.6	24
20	Development of skeletal system for mesh-type ICRP reference adult phantoms. Physics in Medicine and Biology, 2016, 61, 7054-7073.	1.6	24
21	Evaluation of Atomic Electron Binding Energies for Monte Carlo Particle Transport. IEEE Transactions on Nuclear Science, 2011, 58, 3246-3268.	1.2	23
22	New small-intestine modeling method for surface-based computational human phantoms. Journal of Radiological Protection, 2016, 36, 230-245.	0.6	18
23	Mesh-type reference Korean phantoms (MRKPs) for adult male and female for use in radiation protection dosimetry. Physics in Medicine and Biology, 2019, 64, 085020.	1.6	17
24	Monte Carlo study of MOSFET dosemeter characteristics: dose dependence on photon energy, direction and dosemeter composition. Radiation Protection Dosimetry, 2005, 113, 40-46.	0.4	16
25	Ionization Cross Sections for Low Energy Electron Transport. IEEE Transactions on Nuclear Science, 2011, 58, 3219-3245.	1.2	16
26	DagSolid: a new Geant4 solid class for fast simulation in polygon-mesh geometry. Physics in Medicine and Biology, 2013, 58, 4595-4609.	1.6	16
27	Implementation of tetrahedral-mesh geometry in Monte Carlo radiation transport code PHITS. Physics in Medicine and Biology, 2017, 62, 4798-4810.	1.6	16
28	Prototype system for proton beam range measurement based on gamma electron vertex imaging. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 857, 82-97.	0.7	15
29	Body-size-dependent phantom library constructed from ICRP mesh-type reference computational phantoms. Physics in Medicine and Biology, 2020, 65, 125014.	1.6	15
30	Monte Carlo study of a double-scattering Compton camera with GEANT4. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 580, 314-317.	0.7	14
31	Experimental performance of double-scattering Compton camera with anthropomorphic phantom. Journal of Instrumentation, 2011, 6, C01024-C01024.	0.5	14
32	Dose coefficients of mesh-type ICRP reference computational phantoms for idealized external exposures of photons and electrons. Nuclear Engineering and Technology, 2019, 51, 843-852.	1.1	14
33	Posture-dependent dose coefficients of mesh-type ICRP reference computational phantoms for photon external exposures. Physics in Medicine and Biology, 2019, 64, 075018.	1.6	14
34	Percentile-specific computational phantoms constructed from ICRP mesh-type reference computational phantoms (MRCPs). Physics in Medicine and Biology, 2019, 64, 045005.	1.6	14
35	Optimal geometrical configuration of a double-scattering compton camera for maximum imaging resolution and sensitivity. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 591, 80-83.	0.7	13
36	Quantitative Test of the Evolution of Geant4 Electron Backscattering Simulation. IEEE Transactions on Nuclear Science, 2016, 63, 2849-2865.	1.2	13

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37	Development of Compton imaging system for nuclear material monitoring at pyroprocessing test-bed facility. Journal of Nuclear Science and Technology, 2016, 53, 2040-2048.	0.7	13
38	Feasibility of reducing differences in estimated doses in nuclear medicine between a patient-specific and a reference phantom. Physica Medica, 2017, 39, 100-112.	0.4	12
39	Development of skeletal systems for ICRP pediatric mesh-type reference computational phantoms. Journal of Radiological Protection, 2021, 41, 139-161.	0.6	12
40	Simulation Studies on the Correlation of Distal Dose Falloff of a 70-MeV Proton Beam with a Prompt Gamma Distribution. Journal of the Korean Physical Society, 2007, 50, 1510.	0.3	12
41	Development of an Array-Type Prompt Gamma Detection System for the Online Measurement of the Range of the Proton Beam in a Patient: a Monte Carlo Feasibility Study. Journal of the Korean Physical Society, 2008, 52, 888-891.	0.3	12
42	CIS: A GUI-Based Software System for Monte Carlo Simulation of Compton Camera. Nuclear Technology, 2009, 168, 55-60.	0.7	11
43	Multitracing Capability of Double-Scattering Compton Imager With NaI(Tl) Scintillator Absorber. IEEE Transactions on Nuclear Science, 2010, 57, 1420-1425.	1.2	10
44	New approach based on tetrahedral-mesh geometry for accurate 4D Monte Carlo patient-dose calculation. Physics in Medicine and Biology, 2015, 60, 1601-1612.	1.6	10
45	An effective dose assessment technique with NORM added consumer products using skin-point source on computational human phantom. Applied Radiation and Isotopes, 2016, 118, 56-61.	0.7	9
46	Construction of new skin models and calculation of skin dose coefficients for electron exposures. Journal of the Korean Physical Society, 2016, 69, 512-517.	0.3	9
47	Multi-threading performance of Geant4, MCNP6, and PHITS Monte Carlo codes for tetrahedral-mesh geometry. Physics in Medicine and Biology, 2018, 63, 09NT02.	1.6	9
48	Multi-slit prompt-gamma camera for locating of distal dose falloff in proton therapy. Nuclear Engineering and Technology, 2019, 51, 1406-1416.	1.1	9
49	Dose coefficients of mesh-type ICRP reference computational phantoms for external exposures of neutrons, protons, and helium ions. Nuclear Engineering and Technology, 2020, 52, 1545-1556.	1.1	9
50	Two-Dimensional Prompt Gamma Measurement Simulation for In Vivo Dose Verification in Proton Therapy: A Monte Carlo Study. Nuclear Technology, 2011, 175, 11-15.	0.7	8
51	Design optimization of a 2D prompt-gamma measurement system for proton dose verification. Journal of the Korean Physical Society, 2012, 61, 239-242.	0.3	8
52	Development of advanced industrial SPECT system with 12-gonal diverging-collimator. Applied Radiation and Isotopes, 2014, 89, 159-166.	0.7	8
53	Korean anatomical reference data for adults for use in radiological protection. Journal of the Korean Physical Society, 2018, 72, 183-191.	0.3	8
54	Computation Speeds and Memory Requirements of Mesh-Type ICRP Reference Computational Phantoms in Geant4, MCNP6, and PHITS. Health Physics, 2019, 116, 664-676.	0.3	8

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55	POLY2TET: a computer program for conversion of computational human phantoms from polygonal mesh to tetrahedral mesh. Journal of Radiological Protection, 2020, 40, 962-979.	0.6	8
56	Feasibility study on hybrid medical imaging device based on Compton imaging and magnetic resonance imaging. Applied Radiation and Isotopes, 2009, 67, 1412-1415.	0.7	7
57	â€œDouble-layerâ€•method to improve image quality of industria SPECT. Journal of Instrumentation, 2011, 6, C12032-C12032.	0.5	7
58	Continuously Deforming 4D Voxel Phantom for Realistic Representation of Respiratory Motion in Monte Carlo Dose Calculation. IEEE Transactions on Nuclear Science, 2016, 63, 2918-2924.	1.2	7
59	Development of an effective dose coefficient database using a computational human phantom and Monte Carlo simulations to evaluate exposure dose for the usage of NORM-added consumer products. Applied Radiation and Isotopes, 2017, 129, 42-48.	0.7	7
60	Position-sensitive NaI(TL) detector module for large-area Compton camera. Journal of the Korean Physical Society, 2018, 72, 26-32.	0.3	7
61	Large-Area Compton Camera for High-Speed and 3-D Imaging. IEEE Transactions on Nuclear Science, 2018, 65, 2817-2822.	1.2	7
62	Patient Size-Dependent Dosimetry Methodology Applied to ^{18}F-FDG Using New ICRP Mesh Phantoms. Journal of Nuclear Medicine, 2021, 62, 1805-1814.	2.8	7
63	Development of paediatric mesh-type reference computational phantom series of International Commission on Radiological Protection. Journal of Radiological Protection, 2021, 41, S160-S170.	0.6	7
64	Development of Reference Korean Organ and Effective Dose Calculation Online System. Journal of Radiation Protection and Research, 2014, 39, 30-37.	0.3	7
65	TET2MCNP: A Conversion Program to Implement Tetrahedral-mesh Models in MCNP. Journal of Radiation Protection and Research, 2016, 41, 389-394.	0.3	7
66	Determination of Optimal Energy Window for Measurement of Prompt Gammas from Proton Beam by Monte Carlo Simulations. Journal of Nuclear Science and Technology, 2008, 45, 28-31.	0.7	6
67	Construction of a High-quality Voxel Model VKH-Man Using Serially Sectioned Images from Visible Korean Human Project in Korea. Journal of Nuclear Science and Technology, 2008, 45, 179-182.	0.7	6
68	Experimental Test of Double-Layer Method for Industrial SPECT. Nuclear Technology, 2011, 175, 113-117.	0.7	6
69	Study on the validation of the computer fluid dynamics modeling for a continuously flowing water vessel with the industrial SPECT using a radiotracer. Applied Radiation and Isotopes, 2012, 70, 2471-2477.	0.7	6
70	Optimization of detection geometry for industrial SPECT by Monte Carlo simulations. Journal of Instrumentation, 2013, 8, C04006-C04006.	0.5	6
71	Implications of using a 50-Î¼m-thick skin target layer in skin dose coefficient calculation for photons, protons, and helium ions. Nuclear Engineering and Technology, 2017, 49, 1495-1504.	1.1	6
72	A study on dose conversion from a material to human body using mesh phantom for retrospective dosimetry. Radiation Measurements, 2019, 126, 106126.	0.7	6

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73	Counting Efficiencies Determined by Monte Carlo Methods for In Vivo Measurement of 131I Activity in Thyroid. Health Physics, 2019, 117, 388-395.	0.3	6
74	Dose coefficients of percentile-specific computational phantoms for photon external exposures. Radiation and Environmental Biophysics, 2020, 59, 151-160.	0.6	6
75	Development of Signal Processing Modules for Double-sided Silicon Strip Detector of Gamma Vertex Imaging for Proton Beam Dose Verification. Journal of Radiation Protection and Research, 2014, 39, 81-88.	0.3	6
76	Calculation of Effective Doses For Broad Parallel Photon Beams. Health Physics, 1999, 76, 156-161.	0.3	5
77	DEVELOPMENT OF NEW TWO-DOSIMETER ALGORITHM FOR EFFECTIVE DOSE IN ICRP PUBLICATION 103. Health Physics, 2011, 100, 462-467.	0.3	5
78	Two-dimensional measurement of the prompt-gamma distribution for proton dose distribution monitoring. Journal of the Korean Physical Society, 2013, 63, 1385-1389.	0.3	5
79	Evaluation of Dosimetric Characteristics of Reproducibility, Linearity and Dose Dependence of Optically Stimulated Luminescence Dosimeters in Co-60 Gamma-rays. Progress in Medical Physics, 2014, 25, 31.	0.4	5
80	Experimental quantification of Geant4 PhysicsList recommendations: methods and results. Journal of Physics: Conference Series, 2015, 664, 072037.	0.3	5
81	Comparison of knife-edge and multi-slit camera for proton beam range verification by Monte Carlo simulation. Nuclear Engineering and Technology, 2019, 51, 533-538.	1.1	5
82	INVESTIGATION OF THE INFLUENCE OF THYROID LOCATION ON IODINE-131ÂS VALUES. Radiation Protection Dosimetry, 2020, 189, 163-171.	0.4	5
83	Development of hybrid shielding system for large-area Compton camera: A Monte Carlo study. Nuclear Engineering and Technology, 2020, 52, 2361-2369.	1.1	5
84	Detailed tooth models for ICRP mesh-type reference computational phantoms. Journal of Radiological Protection, 2021, 41, .	0.6	5
85	Development of detailed pediatric eye models for lens dose calculations. Journal of Radiological Protection, 2021, 41, 305-325.	0.6	5
86	Virtual calibration of whole-body counters to consider the size dependency of counting efficiency using Monte Carlo simulations. Nuclear Engineering and Technology, 2021, 53, 4122-4129.	1.1	5
87	Improvement of Statistics in Proton Beam Range Measurement by Merging Prompt Gamma Distributions: A Preliminary Study. Journal of Radiation Protection and Research, 2019, 44, 1-7.	0.3	5
88	Development of Detailed Korean Adult Eye Model for Lens Dose Calculation. Journal of Radiation Protection and Research, 2020, 45, 45-52.	0.3	5
89	Determination of Distal Dose Edge in Human Phantom by Measuring Prompt Gamma Distribution: A Monte Carlo Study. Journal of the Korean Physical Society, 2010, 56, 2059-2062.	0.3	5
90	DEVELOPMENT AND EVALUATION OF A PHANTOM FOR MULTI-PURPOSE DOSIMETRY IN INTENSITY-MODULATED RADIATION THERAPY. Nuclear Engineering and Technology, 2011, 43, 399-404.	1.1	5

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91	PRDCâ€"A software package for personnel radiation dose calculation. Radiation Protection Dosimetry, 2006, 118, 243-250.	0.4	4
92	Performance evaluation of a table-top Compton camera for various detector parameters. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 591, 88-91.	0.7	4
93	Temporal resolution required for accurate evaluation of the interplay effect in spot scanning proton therapy. Journal of the Korean Physical Society, 2017, 70, 720-725.	0.3	4
94	Calculation of local skin doses with ICRP adult mesh-type reference computational phantoms. Journal of the Korean Physical Society, 2018, 72, 177-182.	0.3	4
95	Validation of Shell Ionization Cross Sections for Monte Carlo Electron Transport. IEEE Transactions on Nuclear Science, 2018, 65, 2279-2302.	1.2	4
96	Secondary Cancer Risks in Out-of-field Organs for 3-D Conformal Radiation Therapy. Progress in Nuclear Science and Technology, 2011, 1, 521-524.	0.3	4
97	AID â€" A Novel Method for Improving the Imaging Resolution of a Table-Top Compton Camera. IEEE Transactions on Nuclear Science, 2008, 55, 2527-2530.	1.2	3
98	Preliminary Study for Determination of Distal Dose Edge by Measuring 90-deg Prompt Gammas with an Array-Type Prompt Gamma Detection System. Nuclear Technology, 2009, 168, 89-92.	0.7	3
99	Determination of the beam quality correction factor k_{Q,Q_0} for the microLion chamber in a clinical photon beam. Journal of the Korean Physical Society, 2013, 62, 152-158.	0.3	3
100	Performance evaluation of advanced industrial SPECT system with diverging collimator. Applied Radiation and Isotopes, 2014, 94, 125-130.	0.7	3
101	Development of a SPECT System for Industrial Process Flow Measurement Using Diverging Collimators. Nuclear Technology, 2015, 192, 133-141.	0.7	3
102	Electrophysiological characteristics of R47W and A298T mutations in CLC-1 of myotonia congenita patients and evaluation of clinical features. Korean Journal of Physiology and Pharmacology, 2017, 21, 439.	0.6	3
103	Development of a minipig physical phantom from CT data. Journal of Radiation Research, 2017, 58, 755-760.	0.8	3
104	Daily Based Quality Assurance of Volumetric Modulated Arc Therapy for the Full Session of Treatment. Journal of the Korean Physical Society, 2018, 73, 990-1000.	0.3	3
105	Gamma electron vertex imaging for <i>in-vivo</i> beam-range measurement in proton therapy: Experimental results. Applied Physics Letters, 2018, 113, .	1.5	3
106	Development and performance evaluation of large-area hybrid gamma imager (LAHGI). Nuclear Engineering and Technology, 2021, , .	1.1	3
107	Dose conversion coefficients for neutron external exposures with five postures: walking, sitting, bending, kneeling, and squatting. Radiation and Environmental Biophysics, 2021, 60, 317-328.	0.6	3
108	Performance Estimation of Large-scale High-sensitive Compton Camera for Pyroprocessing Facility Monitoring. Journal of Radiation Protection and Research, 2015, 40, 1-9.	0.3	3

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109	Dosimetric considerations of 99mTc-MDP uptake within the epiphyseal plates of the long bones of pediatric patients. Physics in Medicine and Biology, 2020, 65, 235025.	1.6	3
110	Performance prediction of gamma electron vertex imaging (GEVI) system for interfractional range shift detection in spot scanning proton therapy. Nuclear Engineering and Technology, 2022, 54, 2213-2220.	1.1	3
111	Optimization of a table-top Compton camera system by Monte Carlo simulation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 580, 169-172.	0.7	2
112	Monte Carlo simulations on performance of double-scattering Compton camera. Journal of Instrumentation, 2012, 7, C01009-C01009.	0.5	2
113	Development of Two-dimensional Prompt-gamma Measurement System for Verification of Proton Dose Distribution. Progress in Medical Physics, 2015, 26, 42.	0.4	2
114	New calculation method for 3D dose distribution in tetrahedral-mesh phantoms in Geant4. Physica Medica, 2019, 66, 97-103.	0.4	2
115	Design and performance prediction of large-area hybrid gamma imaging system (LAHGIS) for localization of low-level radioactive material. Nuclear Engineering and Technology, 2021, 53, 1259-1265.	1.1	2
116	Upgrade of gamma electron vertex imaging system for high-performance range verification in pencil beam scanning proton therapy. Nuclear Engineering and Technology, 2022, 54, 1016-1023.	1.1	2
117	Plan-Class Specific Reference Quality Assurance for Volumetric Modulated Arc Therapy. Journal of Radiation Protection and Research, 2019, 44, 32-42.	0.3	2
118	Development of a novel program for conversion from tetrahedralâ€meshâ€based phantoms to DICOM dataset for radiation treatment planning: TET2DICOM. Journal of Applied Clinical Medical Physics, 2021, , .	0.8	2
119	A patient-specific hybrid phantom for calculating radiation dose and equivalent dose to the whole body. Physics in Medicine and Biology, 2022, 67, 035005.	1.6	2
120	New algorithm to estimate proton beam range for multi-slit prompt-gamma camera. Nuclear Engineering and Technology, 2022, 54, 3422-3428.	1.1	2
121	Development of a Reference Korean Voxel Model by Adjusting the Size of the Organs and Tissues. Journal of Nuclear Science and Technology, 2008, 45, 321-324.	0.7	1
122	Physics data management tools for Monte Carlo transport: Computational evolutions and benchmarks. , 2010, , .		1
123	Compton-edge-based energy calibration of double-sided silicon strip detectors in Compton camera. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 633, S108-S110.	0.7	1
124	Quenching Effect, Signal to Noise, Contrast to Noise Ratios on Scintillator Screens for Proton Beam Dosimetry System. Japanese Journal of Applied Physics, 2012, 51, 046401.	0.8	1
125	Development of a Compton camera for safeguards applications in a pyroprocessing facility. Journal of the Korean Physical Society, 2014, 65, 1360-1366.	0.3	1
126	Development of Dual-mode Signal Processing Module for Multi-slit Prompt-gamma Camera. Progress in Medical Physics, 2016, 27, 37.	0.4	1

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127	Iodine-131ÂS values for use in organ dose estimation of Korean patients in radioiodine therapy. Nuclear Engineering and Technology, 2022, 54, 689-700.	1.1	1
128	Preliminary Study of Performance Evaluation of a Dual-mode Compton Camera by Using Geant4. Journal of Radiation Protection and Research, 2012, 37, 191-196.	0.3	1
129	Direct Monte Carlo Dose Calculation Using Polygon-surface Computational Human Model. Progress in Nuclear Science and Technology, 2011, 1, 130-133.	0.3	1
130	Recent Advances in Computational Human Phantom for Monte Carlo Dose Calculation. Progress in Nuclear Science and Technology, 2012, 3, 7-10.	0.3	1
131	Photons Revisited. , 2014, , .		1
132	Segmental Analysis Trial of Volumetric Modulated Arc Therapy for Quality Assurance of Linear Accelerator. Progress in Medical Physics, 2019, 30, 128.	0.5	1
133	Validation of e^+e^- Pair Production Total Cross Sections for Monte Carlo Particle Transport. IEEE Transactions on Nuclear Science, 2022, 69, 858-870.	1.2	1
134	A novel method improving the imaging resolution of a table-top Compton camera. , 2007, , .		0
135	Improvement of the imaging resolution for a Compton camera by determination of the interaction depth in a 25-segmented germanium detector. , 2007, , .		0
136	ATOM-MIRD Hybrid Voxel Model for Monte Carlo Calculations of Organ Doses: A Complement to a Physical Phantom. Journal of Nuclear Science and Technology, 2008, 45, 306-308.	0.7	0
137	A Study on Optimization of Photoneutron Shielding in a Medical Accelerator Room by Using Monte Carlo Simulation. Journal of Nuclear Science and Technology, 2008, 45, 50-53.	0.7	0
138	Energy Correction Factors for Silicon Semiconductor Dosimeter in Adult-male Phantom for Accurate Measurement of Organ Doses. Journal of Nuclear Science and Technology, 2008, 45, 256-259.	0.7	0
139	Development of Deformable Computational Model for Korean Adult Male Based on Polygon and NURBS Surfaces. Nuclear Technology, 2009, 168, 227-230.	0.7	0
140	Development of Female ATOM-MIRD Hybrid Voxel Model for Monte Carlo Dose Calculations. Nuclear Technology, 2009, 168, 209-212.	0.7	0
141	Monte Carlo Calculations of Neutron Dose Conversion Coefficients for Reference Korean Male. Nuclear Technology, 2009, 168, 345-348.	0.7	0
142	Resolution recoverable statistical listmode reconstruction using depth dependent point spread function for Compton camera. , 2010, , .		0
143	Explicit modeling of timing characteristics in Compton camera simulation with Geant4. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 633, S274-S275.	0.7	0
144	A new approach to alloy compensation in a thickness measurement of high-tensile steel. , 2013, , .		0

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145	Negative improvements, relative validity and elusive goodness. , 2013, , .		0
146	Study of Variation of Internal Taget Volume between 4DCT and Slow-CT in Respiratory Patterns Using Respiratory Motion Phantom. Progress in Medical Physics, 2014, 25, 53.	0.4	0
147	Determining Ion Collection Efficiency in a Liquid Ionization Chamber in Co-60 Beam. Progress in Medical Physics, 2014, 25, 46.	0.4	0
148	Geant4 and beyond: Precision physics modeling and validation. , 2014, , .		0
149	Testable physics by design. Journal of Physics: Conference Series, 2015, 664, 062047.	0.3	0
150	Determination of ion recombination correction factors for a liquid ionization chamber in megavoltage photon beams. Journal of the Korean Physical Society, 2015, 66, 1439-1447.	0.3	0
151	Simulation validation epistemics in a Geant4 case study. , 2016, , .		0
152	Application of econometric and ecology analysis methods in physics software. Journal of Physics: Conference Series, 2017, 898, 072018.	0.3	0
153	Correction of Prompt Gamma Distribution for Improving Accuracy of Beam Range Determination in Inhomogeneous Phantom. Progress in Medical Physics, 2017, 28, 207.	0.5	0
154	Optimization of DPC dSiPM-Based DOI Compton Camera by Monte Carlo Simulation. IEEE Transactions on Nuclear Science, 2018, 65, 1424-1431.	1.2	0
155	Development of Voxel Phantom Representing Reference Korean Female for Use in Radiation Protection Dosimetry. Progress in Nuclear Science and Technology, 2012, 3, 86-89.	0.3	0
156	SU-E-T-36: Determination of the Beam Quality Correction Factor for the Liquid Ioinization Chamber in a Clinical Photon Beam. Medical Physics, 2013, 40, 211-211.	1.6	0
157	Dose Coefficients for Use in Rapid Dose Estimation in Industrial Radiography Accidents. , 2019, , 295-304.		0