

# Chan Hyeong Kim

## List of Publications by Year in Descending Order

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**Version:** 2024-04-26

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

142  
papers

1,377  
citations

17  
h-index

32  
g-index

158  
ext. papers

1,716  
ext. citations

1.8  
avg, IF

4.38  
L-index

#	Paper	IF	Citations
142	Validation of e+e- Pair Production Total Cross Sections for Monte Carlo Particle Transport. <i>IEEE Transactions on Nuclear Science</i> , <b>2022</b> , 1-1	1.7	
141	Development of a novel program for conversion from tetrahedral-mesh-based phantoms to DICOM dataset for radiation treatment planning: TET2DICOM. <i>Journal of Applied Clinical Medical Physics</i> , <b>2021</b> ,	2.3	2
140	Dose conversion coefficients for neutron external exposures with five postures: walking, sitting, bending, kneeling, and squatting. <i>Radiation and Environmental Biophysics</i> , <b>2021</b> , 60, 317-328	2	1
139	Patient Size-Dependent Dosimetry Methodology Applied to F-FDG Using New ICRP Mesh Phantoms. <i>Journal of Nuclear Medicine</i> , <b>2021</b> ,	8.9	2
138	Development of skeletal systems for ICRP pediatric mesh-type reference computational phantoms. <i>Journal of Radiological Protection</i> , <b>2021</b> ,	1.2	2
137	Design and performance prediction of large-area hybrid gamma imaging system (LAHGIS) for localization of low-level radioactive material. <i>Nuclear Engineering and Technology</i> , <b>2021</b> , 53, 1259-1265	2.6	0
136	Iodine-131 S values for use in organ dose estimation of Korean patients in radioiodine therapy. <i>Nuclear Engineering and Technology</i> , <b>2021</b> , 54, 689-689	2.6	
135	Virtual calibration of whole-body counters to consider the size dependency of counting efficiency using Monte Carlo simulations. <i>Nuclear Engineering and Technology</i> , <b>2021</b> , 53, 4122-4129	2.6	1
134	INVESTIGATION OF THE INFLUENCE OF THYROID LOCATION ON IODINE-131 S VALUES. <i>Radiation Protection Dosimetry</i> , <b>2020</b> , 189, 163-171	0.9	2
133	Body-size-dependent phantom library constructed from ICRP mesh-type reference computational phantoms. <i>Physics in Medicine and Biology</i> , <b>2020</b> , 65, 125014	3.8	3
132	Development of hybrid shielding system for large-area Compton camera: A Monte Carlo study. <i>Nuclear Engineering and Technology</i> , <b>2020</b> , 52, 2361-2369	2.6	3
131	Development of Detailed Korean Adult Eye Model for Lens Dose Calculation. <i>Journal of Radiation Protection and Research</i> , <b>2020</b> , 45, 45-52	0.7	3
130	Dosimetric considerations of Tc-MDP uptake within the epiphyseal plates of the long bones of pediatric patients. <i>Physics in Medicine and Biology</i> , <b>2020</b> , 65, 235025	3.8	2
129	POLY2TET: a computer program for conversion of computational human phantoms from polygonal mesh to tetrahedral mesh. <i>Journal of Radiological Protection</i> , <b>2020</b> , 40, 962-979	1.2	2
128	Dose coefficients of percentile-specific computational phantoms for photon external exposures. <i>Radiation and Environmental Biophysics</i> , <b>2020</b> , 59, 151-160	2	5
127	Dose coefficients of mesh-type ICRP reference computational phantoms for external exposures of neutrons, protons, and helium ions. <i>Nuclear Engineering and Technology</i> , <b>2020</b> , 52, 1545-1556	2.6	4
126	Multi-slit prompt-gamma camera for locating of distal dose falloff in proton therapy. <i>Nuclear Engineering and Technology</i> , <b>2019</b> , 51, 1406-1416	2.6	2

125	PARaDIM: A PHITS-Based Monte Carlo Tool for Internal Dosimetry with Tetrahedral Mesh Computational Phantoms. <i>Journal of Nuclear Medicine</i> , <b>2019</b> , 60, 1802-1811	8.9	9
124	A study on dose conversion from a material to human body using mesh phantom for retrospective dosimetry. <i>Radiation Measurements</i> , <b>2019</b> , 126, 106126	1.5	5
123	Dose coefficients of mesh-type ICRP reference computational phantoms for idealized external exposures of photons and electrons. <i>Nuclear Engineering and Technology</i> , <b>2019</b> , 51, 843-852	2.6	8
122	Mesh-type reference Korean phantoms (MRKPs) for adult male and female for use in radiation protection dosimetry. <i>Physics in Medicine and Biology</i> , <b>2019</b> , 64, 085020	3.8	7
121	Posture-dependent dose coefficients of mesh-type ICRP reference computational phantoms for photon external exposures. <i>Physics in Medicine and Biology</i> , <b>2019</b> , 64, 075018	3.8	6
120	New calculation method for 3D dose distribution in tetrahedral-mesh phantoms in Geant4. <i>Physica Medica</i> , <b>2019</b> , 66, 97-103	2.7	2
119	Improvement of Statistics in Proton Beam Range Measurement by Merging Prompt Gamma Distributions: A Preliminary Study. <i>Journal of Radiation Protection and Research</i> , <b>2019</b> , 44, 1-7	0.7	1
118	Plan-Class Specific Reference Quality Assurance for Volumetric Modulated Arc Therapy. <i>Journal of Radiation Protection and Research</i> , <b>2019</b> , 44, 32-42	0.7	2
117	Dose Coefficients for Use in Rapid Dose Estimation in Industrial Radiography Accidents <b>2019</b> , 295-304		
116	Segmental Analysis Trial of Volumetric Modulated Arc Therapy for Quality Assurance of Linear Accelerator. <i>Progress in Medical Physics</i> , <b>2019</b> , 30, 128	0.5	
115	Counting Efficiencies Determined by Monte Carlo Methods for In Vivo Measurement of 131I Activity in Thyroid. <i>Health Physics</i> , <b>2019</b> , 117, 388-395	2.3	4
114	Computation Speeds and Memory Requirements of Mesh-Type ICRP Reference Computational Phantoms in Geant4, MCNP6, and PHITS. <i>Health Physics</i> , <b>2019</b> , 116, 664-676	2.3	6
113	Percentile-specific computational phantoms constructed from ICRP mesh-type reference computational phantoms (MRCs). <i>Physics in Medicine and Biology</i> , <b>2019</b> , 64, 045005	3.8	6
112	Advances in Computational Human Phantoms and Their Applications in Biomedical Engineering - A Topical Review. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , <b>2019</b> , 3, 1-23	4.2	31
111	Comparison of knife-edge and multi-slit camera for proton beam range verification by Monte Carlo simulation. <i>Nuclear Engineering and Technology</i> , <b>2019</b> , 51, 533-538	2.6	1
110	Multi-threading performance of Geant4, MCNP6, and PHITS Monte Carlo codes for tetrahedral-mesh geometry. <i>Physics in Medicine and Biology</i> , <b>2018</b> , 63, 09NT02	3.8	2
109	Position-sensitive NaI(TL) detector module for large-area Compton camera. <i>Journal of the Korean Physical Society</i> , <b>2018</b> , 72, 26-32	0.6	5
108	Calculation of local skin doses with ICRP adult mesh-type reference computational phantoms. <i>Journal of the Korean Physical Society</i> , <b>2018</b> , 72, 177-182	0.6	4

107	Korean anatomical reference data for adults for use in radiological protection. <i>Journal of the Korean Physical Society</i> , <b>2018</b> , 72, 183-191	0.6	4
106	. <i>IEEE Transactions on Nuclear Science</i> , <b>2018</b> , 65, 1424-1431	1.7	
105	Large-Area Compton Camera for High-Speed and 3-D Imaging. <i>IEEE Transactions on Nuclear Science</i> , <b>2018</b> , 65, 2817-2822	1.7	3
104	Daily Based Quality Assurance of Volumetric Modulated Arc Therapy for the Full Session of Treatment. <i>Journal of the Korean Physical Society</i> , <b>2018</b> , 73, 990-1000	0.6	3
103	Gamma electron vertex imaging for in-vivo beam-range measurement in proton therapy: Experimental results. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 114101	3.4	1
102	Validation of Shell Ionization Cross Sections for Monte Carlo Electron Transport. <i>IEEE Transactions on Nuclear Science</i> , <b>2018</b> , 65, 2279-2302	1.7	3
101	Inclusion of thin target and source regions in alimentary and respiratory tract systems of mesh-type ICRP adult reference phantoms. <i>Physics in Medicine and Biology</i> , <b>2017</b> , 62, 2132-2152	3.8	17
100	Feasibility of reducing differences in estimated doses in nuclear medicine between a patient-specific and a reference phantom. <i>Physica Medica</i> , <b>2017</b> , 39, 100-112	2.7	7
99	Temporal resolution required for accurate evaluation of the interplay effect in spot scanning proton therapy. <i>Journal of the Korean Physical Society</i> , <b>2017</b> , 70, 720-725	0.6	2
98	Implementation of tetrahedral-mesh geometry in Monte Carlo radiation transport code PHITS. <i>Physics in Medicine and Biology</i> , <b>2017</b> , 62, 4798-4810	3.8	14
97	Prototype system for proton beam range measurement based on gamma electron vertex imaging. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2017</b> , 857, 82-97	1.2	10
96	Development of a minipig physical phantom from CT data. <i>Journal of Radiation Research</i> , <b>2017</b> , 58, 755-760	1.0	3
95	Correction of Prompt Gamma Distribution for Improving Accuracy of Beam Range Determination in Inhomogeneous Phantom. <i>Progress in Medical Physics</i> , <b>2017</b> , 28, 207	0.5	
94	Implications of using a 50- $\mu$ m-thick skin target layer in skin dose coefficient calculation for photons, protons, and helium ions. <i>Nuclear Engineering and Technology</i> , <b>2017</b> , 49, 1495-1504	2.6	3
93	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. <i>Applied Radiation and Isotopes</i> , <b>2017</b> , 129, 42-48	1.7	7
92	Application of econometric and ecology analysis methods in physics software. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 898, 072018	0.3	
91	Electrophysiological characteristics of R47W and A298T mutations in CLC-1 of myotonia congenita patients and evaluation of clinical features. <i>Korean Journal of Physiology and Pharmacology</i> , <b>2017</b> , 21, 439-447	1.8	2
90	New small-intestine modeling method for surface-based computational human phantoms. <i>Journal of Radiological Protection</i> , <b>2016</b> , 36, 230-45	1.2	14

89	. <i>IEEE Transactions on Nuclear Science</i> , <b>2016</b> , 63, 2918-2924	1.7	5
88	Construction of new skin models and calculation of skin dose coefficients for electron exposures. <i>Journal of the Korean Physical Society</i> , <b>2016</b> , 69, 512-517	0.6	6
87	Validation of Cross Sections for Monte Carlo Simulation of the Photoelectric Effect. <i>IEEE Transactions on Nuclear Science</i> , <b>2016</b> , 63, 1117-1146	1.7	23
86	TET2MCNP: A Conversion Program to Implement Tetrahedral-mesh Models in MCNP. <i>Journal of Radiation Protection and Research</i> , <b>2016</b> , 41, 389-394	0.7	6
85	Development of Dual-mode Signal Processing Module for Multi-slit Prompt-gamma Camera. <i>Progress in Medical Physics</i> , <b>2016</b> , 27, 37		1
84	Development of skeletal system for mesh-type ICRP reference adult phantoms. <i>Physics in Medicine and Biology</i> , <b>2016</b> , 61, 7054-7073	3.8	19
83	. <i>IEEE Transactions on Nuclear Science</i> , <b>2016</b> , 63, 2849-2865	1.7	8
82	An effective dose assessment technique with NORM added consumer products using skin-point source on computational human phantom. <i>Applied Radiation and Isotopes</i> , <b>2016</b> , 118, 56-61	1.7	8
81	Development of Compton imaging system for nuclear material monitoring at pyroprocessing test-bed facility. <i>Journal of Nuclear Science and Technology</i> , <b>2016</b> , 53, 2040-2048	1	8
80	Validation Test of Geant4 Simulation of Electron Backscattering. <i>IEEE Transactions on Nuclear Science</i> , <b>2015</b> , 62, 451-479	1.7	38
79	Determination of ion recombination correction factors for a liquid ionization chamber in megavoltage photon beams. <i>Journal of the Korean Physical Society</i> , <b>2015</b> , 66, 1439-1447	0.6	
78	Investigation of Geant4 Simulation of Electron Backscattering. <i>IEEE Transactions on Nuclear Science</i> , <b>2015</b> , 62, 1805-1812	1.7	22
77	Development of a SPECT System for Industrial Process Flow Measurement Using Diverging Collimators. <i>Nuclear Technology</i> , <b>2015</b> , 192, 133-141	1.4	3
76	Testable physics by design. <i>Journal of Physics: Conference Series</i> , <b>2015</b> , 664, 062047	0.3	
75	Incorporation of detailed eye model into polygon-mesh versions of ICRP-110 reference phantoms. <i>Physics in Medicine and Biology</i> , <b>2015</b> , 60, 8695-707	3.8	24
74	Experimental quantification of Geant4 PhysicsList recommendations: methods and results. <i>Journal of Physics: Conference Series</i> , <b>2015</b> , 664, 072037	0.3	1
73	Development of Two-dimensional Prompt-gamma Measurement System for Verification of Proton Dose Distribution. <i>Progress in Medical Physics</i> , <b>2015</b> , 26, 42		1
72	New approach based on tetrahedral-mesh geometry for accurate 4D Monte Carlo patient-dose calculation. <i>Physics in Medicine and Biology</i> , <b>2015</b> , 60, 1601-12	3.8	10

71	Performance Estimation of Large-scale High-sensitive Compton Camera for Pyroprocessing Facility Monitoring. <i>Journal of Radiation Protection and Research</i> , <b>2015</b> , 40, 1-9	0.7	3
70	Tetrahedral-mesh-based computational human phantom for fast Monte Carlo dose calculations. <i>Physics in Medicine and Biology</i> , <b>2014</b> , 59, 3173-85	3.8	57
69	Performance evaluation of advanced industrial SPECT system with diverging collimator. <i>Applied Radiation and Isotopes</i> , <b>2014</b> , 94, 125-130	1.7	2
68	Development of advanced industrial SPECT system with 12-gonal diverging-collimator. <i>Applied Radiation and Isotopes</i> , <b>2014</b> , 89, 159-66	1.7	6
67	Evaluation of Dosimetric Characteristics of Reproducibility, Linearity and Dose Dependence of Optically Stimulated Luminescence Dosimeters in Co-60 Gamma-rays. <i>Progress in Medical Physics</i> , <b>2014</b> , 25, 31		5
66	Study of Variation of Internal Target Volume between 4DCT and Slow-CT in Respiratory Patterns Using Respiratory Motion Phantom. <i>Progress in Medical Physics</i> , <b>2014</b> , 25, 53		
65	Determining Ion Collection Efficiency in a Liquid Ionization Chamber in Co-60 Beam. <i>Progress in Medical Physics</i> , <b>2014</b> , 25, 46		
64	HDRK-Woman: whole-body voxel model based on high-resolution color slice images of Korean adult female cadaver. <i>Physics in Medicine and Biology</i> , <b>2014</b> , 59, 3969-84	3.8	21
63	Development of a Compton camera for safeguards applications in a pyroprocessing facility. <i>Journal of the Korean Physical Society</i> , <b>2014</b> , 65, 1360-1366	0.6	0
62	Development of Reference Korean Organ and Effective Dose Calculation Online System. <i>Journal of Radiation Protection and Research</i> , <b>2014</b> , 39, 30-37	0.7	7
61	Development of Signal Processing Modules for Double-sided Silicon Strip Detector of Gamma Vertex Imaging for Proton Beam Dose Verification. <i>Journal of Radiation Protection and Research</i> , <b>2014</b> , 39, 81-88	0.7	6
60	Photons Revisited <b>2014</b> ,		1
59	Determination of the beam quality correction factor ( $k_{Q,Q_0}$ ) for the microLion chamber in a clinical photon beam. <i>Journal of the Korean Physical Society</i> , <b>2013</b> , 62, 152-158	0.6	2
58	Resolution recovery reconstruction for a Compton camera. <i>Physics in Medicine and Biology</i> , <b>2013</b> , 58, 2823-40	3.8	17
57	DagSolid: a new Geant4 solid class for fast simulation in polygon-mesh geometry. <i>Physics in Medicine and Biology</i> , <b>2013</b> , 58, 4595-609	3.8	11
56	Two-dimensional measurement of the prompt-gamma distribution for proton dose distribution monitoring. <i>Journal of the Korean Physical Society</i> , <b>2013</b> , 63, 1385-1389	0.6	4
55	Conversion of ICRP male reference phantom to polygon-surface phantom. <i>Physics in Medicine and Biology</i> , <b>2013</b> , 58, 6985-7007	3.8	35
54	Optimization of detection geometry for industrial SPECT by Monte Carlo simulations. <i>Journal of Instrumentation</i> , <b>2013</b> , 8, C04006-C04006	1	6

53	SU-E-T-36: Determination of the Beam Quality Correction Factor for the Liquid Ionization Chamber in a Clinical Photon Beam. <i>Medical Physics</i> , <b>2013</b> , 40, 211-211	4.4	
52	Design optimization of a 2D prompt-gamma measurement system for proton dose verification. <i>Journal of the Korean Physical Society</i> , <b>2012</b> , 61, 239-242	0.6	7
51	Study on the validation of the computer fluid dynamics modeling for a continuously flowing water vessel with the industrial SPECT using a radiotracer. <i>Applied Radiation and Isotopes</i> , <b>2012</b> , 70, 2471-7	1.7	5
50	Quenching Effect, Signal to Noise, Contrast to Noise Ratios on Scintillator Screens for Proton Beam Dosimetry System. <i>Japanese Journal of Applied Physics</i> , <b>2012</b> , 51, 046401	1.4	
49	Gamma electron vertex imaging and application to beam range verification in proton therapy. <i>Medical Physics</i> , <b>2012</b> , 39, 1001-5	4.4	16
48	Development of array-type prompt gamma measurement system for in vivo range verification in proton therapy. <i>Medical Physics</i> , <b>2012</b> , 39, 2100-7	4.4	79
47	Monte Carlo simulations on performance of double-scattering Compton camera. <i>Journal of Instrumentation</i> , <b>2012</b> , 7, C01009-C01009	1	2
46	Preliminary Study of Performance Evaluation of a Dual-mode Compton Camera by Using Geant4. <i>Journal of Radiation Protection and Research</i> , <b>2012</b> , 37, 191-196	0.7	1
45	Development of Voxel Phantom Representing Reference Korean Female for Use in Radiation Protection Dosimetry. <i>Progress in Nuclear Science and Technology</i> , <b>2012</b> , 3, 86-89	0.3	
44	Recent Advances in Computational Human Phantom for Monte Carlo Dose Calculation. <i>Progress in Nuclear Science and Technology</i> , <b>2012</b> , 3, 7-10	0.3	1
43	. <i>IEEE Transactions on Nuclear Science</i> , <b>2011</b> , 58, 3219-3245	1.7	11
42	. <i>IEEE Transactions on Nuclear Science</i> , <b>2011</b> , 58, 3246-3268	1.7	16
41	Experimental Test of Double-Layer Method for Industrial SPECT. <i>Nuclear Technology</i> , <b>2011</b> , 175, 113-117	1.4	5
40	Development of new two-dosimeter algorithm for effective dose in ICRP Publication 103. <i>Health Physics</i> , <b>2011</b> , 100, 462-7	2.3	5
39	Double-layer method to improve image quality of industrial SPECT. <i>Journal of Instrumentation</i> , <b>2011</b> , 6, C12032-C12032	1	6
38	Experimental performance of double-scattering Compton camera with anthropomorphic phantom. <i>Journal of Instrumentation</i> , <b>2011</b> , 6, C01024-C01024	1	9
37	Two-Dimensional Prompt Gamma Measurement Simulation for In Vivo Dose Verification in Proton Therapy: A Monte Carlo Study. <i>Nuclear Technology</i> , <b>2011</b> , 175, 11-15	1.4	6
36	Compton-edge-based energy calibration of double-sided silicon strip detectors in Compton camera. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2011</b> , 633, S108-S110	1.2	1

35	Explicit modeling of timing characteristics in Compton camera simulation with Geant4. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2011</b> , 633, S274-S275	1.2	
34	A polygon-surface reference Korean male phantom (PSRK-Man) and its direct implementation in Geant4 Monte Carlo simulation. <i>Physics in Medicine and Biology</i> , <b>2011</b> , 56, 3137-61	3.8	52
33	Direct Monte Carlo Dose Calculation Using Polygon-surface Computational Human Model. <i>Progress in Nuclear Science and Technology</i> , <b>2011</b> , 1, 130-133	0.3	1
32	Secondary Cancer Risks in Out-of-field Organs for 3-D Conformal Radiation Therapy. <i>Progress in Nuclear Science and Technology</i> , <b>2011</b> , 1, 521-524	0.3	3
31	DEVELOPMENT AND EVALUATION OF A PHANTOM FOR MULTI-PURPOSE DOSIMETRY IN INTENSITY-MODULATED RADIATION THERAPY. <i>Nuclear Engineering and Technology</i> , <b>2011</b> , 43, 399-404	2.6	5
30	Fully three-dimensional OSEM-based image reconstruction for Compton imaging using optimized ordering schemes. <i>Physics in Medicine and Biology</i> , <b>2010</b> , 55, 5007-27	3.8	19
29	Physics data management tools for Monte Carlo transport: Computational evolutions and benchmarks <b>2010</b> ,		1
28	. <i>IEEE Transactions on Nuclear Science</i> , <b>2010</b> , 57, 1420-1425	1.7	10
27	Development of double-scattering-type Compton camera with double-sided silicon strip detectors and NaI(Tl) scintillation detector. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2010</b> , 615, 333-339	1.2	24
26	Monte Carlo Simulation Study on Dose Enhancement by Gold Nanoparticles in Brachytherapy. <i>Journal of the Korean Physical Society</i> , <b>2010</b> , 56, 1754-1758	0.6	24
25	Determination of Distal Dose Edge in Human Phantom by Measuring Prompt Gamma Distribution: A Monte Carlo Study. <i>Journal of the Korean Physical Society</i> , <b>2010</b> , 56, 2059-2062	0.6	5
24	Feasibility study on hybrid medical imaging device based on Compton imaging and magnetic resonance imaging. <i>Applied Radiation and Isotopes</i> , <b>2009</b> , 67, 1412-5	1.7	5
23	Preliminary Study for Determination of Distal Dose Edge by Measuring 90-deg Prompt Gammas with an Array-Type Prompt Gamma Detection System. <i>Nuclear Technology</i> , <b>2009</b> , 168, 89-92	1.4	3
22	Development of Deformable Computational Model for Korean Adult Male Based on Polygon and NURBS Surfaces. <i>Nuclear Technology</i> , <b>2009</b> , 168, 227-230	1.4	
21	Development of Female ATOM-MIRD Hybrid Voxel Model for Monte Carlo Dose Calculations. <i>Nuclear Technology</i> , <b>2009</b> , 168, 209-212	1.4	
20	Monte Carlo Calculations of Neutron Dose Conversion Coefficients for Reference Korean Male. <i>Nuclear Technology</i> , <b>2009</b> , 168, 345-348	1.4	
19	CIS: A GUI-Based Software System for Monte Carlo Simulation of Compton Camera. <i>Nuclear Technology</i> , <b>2009</b> , 168, 55-60	1.4	10
18	AID ̄A Novel Method for Improving the Imaging Resolution of a Table-Top Compton Camera. <i>IEEE Transactions on Nuclear Science</i> , <b>2008</b> , 55, 2527-2530	1.7	3



17	Determination of Optimal Energy Window for Measurement of Prompt Gammas from Proton Beam by Monte Carlo Simulations. <i>Journal of Nuclear Science and Technology</i> , <b>2008</b> , 45, 28-31	1	6
16	Construction of a High-quality Voxel Model VKH-Man Using Serially Sectioned Images from Visible Korean Human Project in Korea. <i>Journal of Nuclear Science and Technology</i> , <b>2008</b> , 45, 179-182	1	4
15	ATOM-MIRD Hybrid Voxel Model for Monte Carlo Calculations of Organ Doses: A Complement to a Physical Phantom. <i>Journal of Nuclear Science and Technology</i> , <b>2008</b> , 45, 306-308	1	
14	A Study on Optimization of Photoneutron Shielding in a Medical Accelerator Room by Using Monte Carlo Simulation. <i>Journal of Nuclear Science and Technology</i> , <b>2008</b> , 45, 50-53	1	
13	Energy Correction Factors for Silicon Semiconductor Dosimeter in Adult-male Phantom for Accurate Measurement of Organ Doses. <i>Journal of Nuclear Science and Technology</i> , <b>2008</b> , 45, 256-259	1	
12	Development of a Reference Korean Voxel Model by Adjusting the Size of the Organs and Tissues. <i>Journal of Nuclear Science and Technology</i> , <b>2008</b> , 45, 321-324	1	1
11	HDRK-Man: a whole-body voxel model based on high-resolution color slice images of a Korean adult male cadaver. <i>Physics in Medicine and Biology</i> , <b>2008</b> , 53, 4093-106	3.8	66
10	Performance evaluation of a table-top Compton camera for various detector parameters. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2008</b> , 591, 88-91	1.2	4
9	Optimal geometrical configuration of a double-scattering compton camera for maximum imaging resolution and sensitivity. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2008</b> , 591, 80-83	1.2	11
8	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. <i>Journal of the Korean Physical Society</i> , <b>2008</b> , 52, 888-891	0.6	11
7	Optimization of a table-top Compton camera system by Monte Carlo simulation. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2007</b> , 580, 169-172	1.2	2
6	Monte Carlo study of a double-scattering Compton camera with GEANT4. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2007</b> , 580, 314-317	1.2	13
5	Simulation Studies on the Correlation of Distal Dose Falloff of a 70-MeV Proton Beam with a Prompt Gamma Distribution. <i>Journal of the Korean Physical Society</i> , <b>2007</b> , 50, 1510	0.6	12
4	PRDC--a software package for personnel radiation dose calculation. <i>Radiation Protection Dosimetry</i> , <b>2006</b> , 118, 243-50	0.9	3
3	Prompt gamma measurements for locating the dose falloff region in the proton therapy. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 183517	3.4	280
2	Monte Carlo study of MOSFET dosimeter characteristics: dose dependence on photon energy, direction and dosimeter composition. <i>Radiation Protection Dosimetry</i> , <b>2005</b> , 113, 40-6	0.9	14
1	Calculation of effective doses for broad parallel photon beams. <i>Health Physics</i> , <b>1999</b> , 76, 156-61	2.3	5