

Yeon Soo Yeom

List of Publications by Year in descending order

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52
papers

615
citations

623188

14
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676716

22
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52
all docs

52
docs citations

52
times ranked

407
citing authors

#	ARTICLE	IF	CITATIONS
1	Tetrahedral-mesh-based computational human phantom for fast Monte Carlo dose calculations. <i>Physics in Medicine and Biology</i> , 2014, 59, 3173-3185.	1.6	71
2	Advances in Computational Human Phantoms and Their Applications in Biomedical Engineering – A Topical Review. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2019, 3, 1-23.	2.7	58
3	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> , 2014, 59, 3969-3984.	1.6	38
4	Conversion of ICRP male reference phantom to polygon-surface phantom. <i>Physics in Medicine and Biology</i> , 2013, 58, 6985-7007.	1.6	36
5	Incorporation of detailed eye model into polygon-mesh versions of ICRP-110 reference phantoms. <i>Physics in Medicine and Biology</i> , 2015, 60, 8695-8707.	1.6	29
6	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> , 2017, 62, 2132-2152.	1.6	25
7	Development of skeletal system for mesh-type ICRP reference adult phantoms. <i>Physics in Medicine and Biology</i> , 2016, 61, 7054-7073.	1.6	24
8	New small-intestine modeling method for surface-based computational human phantoms. <i>Journal of Radiological Protection</i> , 2016, 36, 230-245.	0.6	18
9	Automatic segmentation of cardiac structures for breast cancer radiotherapy. <i>Physics and Imaging in Radiation Oncology</i> , 2019, 12, 44-48.	1.2	18
10	Mesh-type reference Korean phantoms (MRKPs) for adult male and female for use in radiation protection dosimetry. <i>Physics in Medicine and Biology</i> , 2019, 64, 085020.	1.6	17
11	Implementation of tetrahedral-mesh geometry in Monte Carlo radiation transport code PHITS. <i>Physics in Medicine and Biology</i> , 2017, 62, 4798-4810.	1.6	16
12	Body-size-dependent phantom library constructed from ICRP mesh-type reference computational phantoms. <i>Physics in Medicine and Biology</i> , 2020, 65, 125014.	1.6	15
13	Dose coefficients of mesh-type ICRP reference computational phantoms for idealized external exposures of photons and electrons. <i>Nuclear Engineering and Technology</i> , 2019, 51, 843-852.	1.1	14
14	Posture-dependent dose coefficients of mesh-type ICRP reference computational phantoms for photon external exposures. <i>Physics in Medicine and Biology</i> , 2019, 64, 075018.	1.6	14
15	Percentile-specific computational phantoms constructed from ICRP mesh-type reference computational phantoms (MRCPs). <i>Physics in Medicine and Biology</i> , 2019, 64, 045005.	1.6	14
16	Feasibility of reducing differences in estimated doses in nuclear medicine between a patient-specific and a reference phantom. <i>Physica Medica</i> , 2017, 39, 100-112.	0.4	12
17	A Monte Carlo model for organ dose reconstruction of patients in pencil beam scanning (PBS) proton therapy for epidemiologic studies of late effects. <i>Journal of Radiological Protection</i> , 2020, 40, 225-242.	0.6	12
18	Development of skeletal systems for ICRP pediatric mesh-type reference computational phantoms. <i>Journal of Radiological Protection</i> , 2021, 41, 139-161.	0.6	12

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19	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
20	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
21	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
22	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
23	Korean anatomical reference data for adults for use in radiological protection. Journal of the Korean Physical Society, 2018, 72, 183-191.	0.3	8
24	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
25	Application of an automatic segmentation method for evaluating cardiac structure doses received by breast radiotherapy patients. Physics and Imaging in Radiation Oncology, 2021, 19, 138-144.	1.2	8
26	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
27	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
28	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
29	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
30	Development of Reference Korean Organ and Effective Dose Calculation Online System. Journal of Radiation Protection and Research, 2014, 39, 30-37.	0.3	7
31	TET2MCNP: A Conversion Program to Implement Tetrahedral-mesh Models in MCNP. Journal of Radiation Protection and Research, 2016, 41, 389-394.	0.3	7
32	Implications of using a 50- μ m-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
33	Dose coefficients of percentile-specific computational phantoms for photon external exposures. Radiation and Environmental Biophysics, 2020, 59, 151-160.	0.6	6
34	INVESTIGATION OF THE INFLUENCE OF THYROID LOCATION ON IODINE-131 ^Â S VALUES. Radiation Protection Dosimetry, 2020, 189, 163-171.	0.4	5
35	Detailed tooth models for ICRP mesh-type reference computational phantoms. Journal of Radiological Protection, 2021, 41, .	0.6	5
36	Development of detailed pediatric eye models for lens dose calculations. Journal of Radiological Protection, 2021, 41, 305-325.	0.6	5

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37	Development of Detailed Korean Adult Eye Model for Lens Dose Calculation. Journal of Radiation Protection and Research, 2020, 45, 45-52.	0.3	5
38	A dose voxel kernel method for rapid reconstruction of out-of-field neutron dose of patients in pencil beam scanning (PBS) proton therapy. Physics in Medicine and Biology, 2020, 65, 175015.	1.6	5
39	Fetal dose from proton pencil beam scanning craniospinal irradiation during pregnancy: a Monte Carlo study. Physics in Medicine and Biology, 2022, 67, 035003.	1.6	5
40	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
41	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
42	Performance evaluation of advanced industrial SPECT system with diverging collimator. Applied Radiation and Isotopes, 2014, 94, 125-130.	0.7	3
43	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
44	Body-size-dependent Iodine-131 S values. Journal of Radiological Protection, 2020, 40, 1311-1320.	0.6	3
45	New calculation method for 3D dose distribution in tetrahedral-mesh phantoms in Geant4. Physica Medica, 2019, 66, 97-103.	0.4	2
46	Dosimetric impact of voxel resolutions of computational human phantoms for external photon exposure. Biomedical Physics and Engineering Express, 2019, 5, 065002.	0.6	2
47	Organ Dose Conversion Coefficients Calculated for Korean Pediatric and Adult Voxel Phantoms Exposed to External Photon Fields. Journal of Radiation Protection and Research, 2020, 45, 69-75.	0.3	2
48	Iodine-131 S values for use in organ dose estimation of Korean patients in radioiodine therapy. Nuclear Engineering and Technology, 2022, 54, 689-700.	1.1	1
49	Recent Advances in Computational Human Phantom for Monte Carlo Dose Calculation. Progress in Nuclear Science and Technology, 2012, 3, 7-10.	0.3	1
50	Extra-phase Image Generation for Its Potential Use in Dose Evaluation for a Broad Range of Respiratory Motion. Journal of Radiation Protection and Research, 2019, 44, 103-109.	0.3	1
51	Preliminary study of artificial intelligence-based fuel-rod pattern analysis of low-quality tomographic image of fuel assembly. Nuclear Engineering and Technology, 2022, , .	1.1	1
52	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