Yeon Soo Yeom

List of Publications by Year
in descending order

52 papers	615 citations	623188 14 h-index	676716 22 g-index
52 all docs	52 docs citations	52 times ranked	407 citing authors

#	Article	IF	Citations
1	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
2	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
3	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
4	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
5	Detailed tooth models for ICRP mesh-type reference computational phantoms. Journal of Radiological Protection, 2021, 41, .	0.6	5
6	Development of detailed pediatric eye models for lens dose calculations. Journal of Radiological Protection, 2021, 41, 305-325.	0.6	5
7	Development of skeletal systems for ICRP pediatric mesh-type reference computational phantoms. Journal of Radiological Protection, 2021, 41, 139-161.	0.6	12
8	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
9	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
10	A Monte Carlo model for organ dose reconstruction of patients in pencil beam scanning (PBS) proton therapy for epidemiologic studies of late effects. Journal of Radiological Protection, 2020, 40, 225-242.	0.6	12
11	Dose coefficients of percentile-specific computational phantoms for photon external exposures. Radiation and Environmental Biophysics, 2020, 59, 151-160.	0.6	6
12	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
13	INVESTIGATION OF THE INFLUENCE OF THYROID LOCATION ON IODINE-131ÂS VALUES. Radiation Protection Dosimetry, 2020, 189, 163-171.	0.4	5
14	Body-size-dependent phantom library constructed from ICRP mesh-type reference computational phantoms. Physics in Medicine and Biology, 2020, 65, 125014.	1.6	15
15	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
16	Body-size-dependent Iodine-131 S values. Journal of Radiological Protection, 2020, 40, 1311-1320.	0.6	3
17	Development of Detailed Korean Adult Eye Model for Lens Dose Calculation. Journal of Radiation Protection and Research, 2020, 45, 45-52.	0.3	5
18	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

#	Article	IF	Citations
19	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
20	New calculation method for 3D dose distribution in tetrahedral-mesh phantoms in Geant4. Physica Medica, 2019, 66, 97-103.	0.4	2
21	Dosimetric impact of voxel resolutions of computational human phantoms for external photon exposure. Biomedical Physics and Engineering Express, 2019, 5, 065002.	0.6	2
22	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
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	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
25	Automatic segmentation of cardiac structures for breast cancer radiotherapy. Physics and Imaging in Radiation Oncology, 2019, 12, 44-48.	1.2	18
26	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
27	Percentile-specific computational phantoms constructed from ICRP mesh-type reference computational phantoms (MRCPs). Physics in Medicine and Biology, 2019, 64, 045005.	1.6	14
28	Advances in Computational Human Phantoms and Their Applications in Biomedical Engineeringâ€”A Topical Review. IEEE Transactions on Radiation and Plasma Medical Sciences, 2019, 3, 1-23.	2.7	58
29	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
30	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
31	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
32	Korean anatomical reference data for adults for use in radiological protection. Journal of the Korean Physical Society, 2018, 72, 183-191.	0.3	8
33	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
34	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
35	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
36	Implementation of tetrahedral-mesh geometry in Monte Carlo radiation transport code PHITS. Physics in Medicine and Biology, 2017, 62, 4798-4810.	1.6	16

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37	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
38	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
39	Development of skeletal system for mesh-type ICRP reference adult phantoms. Physics in Medicine and Biology, 2016, 61, 7054-7073.	1.6	24
40	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
41	New small-intestine modeling method for surface-based computational human phantoms. Journal of Radiological Protection, 2016, 36, 230-245.	0.6	18
42	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
43	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
44	TET2MCNP: A Conversion Program to Implement Tetrahedral-mesh Models in MCNP. Journal of Radiation Protection and Research, 2016, 41, 389-394.	0.3	7
45	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
46	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
47	Tetrahedral-mesh-based computational human phantom for fast Monte Carlo dose calculations. Physics in Medicine and Biology, 2014, 59, 3173-3185.	1.6	71
48	Performance evaluation of advanced industrial SPECT system with diverging collimator. Applied Radiation and Isotopes, 2014, 94, 125-130.	0.7	3
49	Development of Reference Korean Organ and Effective Dose Calculation Online System. Journal of Radiation Protection and Research, 2014, 39, 30-37.	0.3	7
50	Conversion of ICRP male reference phantom to polygon-surface phantom. Physics in Medicine and Biology, 2013, 58, 6985-7007.	1.6	36
51	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
52	Recent Advances in Computational Human Phantom for Monte Carlo Dose Calculation. Progress in Nuclear Science and Technology, 2012, 3, 7-10.	0.3	1