

# Chul Hee Min

## List of Publications by Year in descending order

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30  
papers

546  
citations

1040056

9  
h-index

642732

23  
g-index

30  
all docs

30  
docs citations

30  
times ranked

572  
citing authors

#	ARTICLE	IF	CITATIONS
1	Geant4-DNA example applications for track structure simulations in liquid water: A report from the Geant4-DNA Project. Medical Physics, 2018, 45, e722.	3.0	265
2	Evaluation of permanent alopecia in pediatric medulloblastoma patients treated with proton radiation. Radiation Oncology, 2014, 9, 220.	2.7	35
3	Evaluation of the influence of physical and chemical parameters on water radiolysis simulations under MeV electron irradiation using Geant4-DNA. Journal of Applied Physics, 2019, 126, .	2.5	34
4	Development of a new Geant4-DNA electron elastic scattering model for liquid-phase water using the ELSEPA code. Journal of Applied Physics, 2018, 124, .	2.5	21
5	Validation of energy-weighted algorithm for radiation portal monitor using plastic scintillator. Applied Radiation and Isotopes, 2016, 107, 160-164.	1.5	19
6	Development of a radionuclide identification algorithm based on a convolutional neural network for radiation portal monitoring system. Radiation Physics and Chemistry, 2021, 180, 109300.	2.8	18
7	A Monte Carlo study of an energy-weighted algorithm for radionuclide analysis with a plastic scintillation detector. Applied Radiation and Isotopes, 2015, 101, 53-59.	1.5	16
8	Effective dose evaluation of NORM-added consumer products using Monte Carlo simulations and the ICRP computational human phantoms. Applied Radiation and Isotopes, 2016, 110, 230-235.	1.5	15
9	Dynamic radionuclide identification using energy weighted algorithm with commercialized radiation portal monitor based on plastic scintillators. Radiation Physics and Chemistry, 2020, 170, 108645.	2.8	11
10	Effective Dose Calculation Program (EDCP) for the usage of NORM-added consumer product. Applied Radiation and Isotopes, 2018, 139, 1-6.	1.5	10
11	Development of a PMMA phantom as a practical alternative for quality control of gamma knife® dosimetry. Radiation Oncology, 2018, 13, 176.	2.7	10
12	Radioisotope identification using an energy-weighted algorithm with a proof-of-principle radiation portal monitor based on plastic scintillators. Applied Radiation and Isotopes, 2020, 156, 109010.	1.5	10
13	Feasibility study for the assessment of the exposed dose with TENORM added in consumer products. Radiation Protection Dosimetry, 2015, 167, 255-259.	0.8	9
14	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.	1.5	9
15	Monte Carlo methods for device simulations in radiation therapy. Physics in Medicine and Biology, 2021, 66, 18TR01.	3.0	9
16	Evaluation of the annual effective dose due to the external irradiation induced by using NORM added consumer products. Applied Radiation and Isotopes, 2019, 154, 108860.	1.5	8
17	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.	1.5	7
18	Independent dose validation system for Gamma Knife radiosurgery, using a DICOM-RT interface and Geant4. Physica Medica, 2018, 51, 117-124.	0.7	6

#	ARTICLE	IF	CITATIONS
19	Determining the energy spectrum of clinical linear accelerator using an optimized photon beam transmission protocol. <i>Medical Physics</i> , 2019, 46, 3285-3297.	3.0	6
20	A Monte Carlo study of the relationship between the time structures of prompt gammas and the in-vivo radiation dose in proton therapy. <i>Journal of the Korean Physical Society</i> , 2015, 67, 248-253.	0.7	5
21	Development of a Geant4-based independent patient dose validation system with an elaborate multileaf collimator simulation model. <i>Journal of Applied Clinical Medical Physics</i> , 2019, 20, 94-106.	1.9	5
22	Evaluation of Source Identification Method Based on Energy-Weighting Level with Portal Monitoring System Using Plastic Scintillator. <i>Journal of Radiation Protection and Research</i> , 2020, 45, 117-129.	0.6	5
23	Experimental evaluation of fuel rod pattern analysis in fuel assembly using Yonsei single-photon emission computed tomography (YSECT). <i>Nuclear Engineering and Technology</i> , 2022, 54, 1982-1990.	2.3	3
24	Evaluation of the dosimetric effect of scattered protons in clinical practice in passive scattering proton therapy. <i>Journal of Applied Clinical Medical Physics</i> , 2021, 22, 104-118.	1.9	2
25	Optimization of target, moderator, and collimator in the accelerator-based boron neutron capture therapy system: A Monte Carlo study. <i>Nuclear Engineering and Technology</i> , 2021, 53, 1970-1978.	2.3	2
26	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> , 2021, , .	1.9	2
27	Development of advanced skin dose evaluation technique using a tetrahedral-mesh phantom in external beam radiotherapy: a Monte Carlo simulation study. <i>Physics in Medicine and Biology</i> , 2019, 64, 165005.	3.0	1
28	Development of accurate dose evaluation technique of X-ray inspection for quality assurance of semiconductor with Monte Carlo simulation. <i>Applied Radiation and Isotopes</i> , 2019, 154, 108851.	1.5	1
29	Preliminary results of a single photon emission computed tomography (SPECT) detector for inspection of spent fuel assembly. <i>Radiation Physics and Chemistry</i> , 2022, 197, 110162.	2.8	1
30	Preliminary study of artificial intelligence-based fuel-rod pattern analysis of low-quality tomographic image of fuel assembly. <i>Nuclear Engineering and Technology</i> , 2022, , .	2.3	1