

# HyunJoon Choi

## List of Publications by Year in descending order

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14  
papers

113  
citations

1478505

6  
h-index

1281871

11  
g-index

14  
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14  
docs citations

14  
times ranked

136  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Development of a PMMA phantom as a practical alternative for quality control of gamma knife® dosimetry. Radiation Oncology, 2018, 13, 176.	2.7	10
4	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
5	Development of integrated prompt gamma imaging and positron emission tomography system for <i>in vivo</i> 3-D dose verification: a Monte Carlo study. Physics in Medicine and Biology, 2020, 65, 105005.	3.0	10
6	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
7	Independent dose validation system for Gamma Knife radiosurgery, using a DICOM-RT interface and Geant4. Physica Medica, 2018, 51, 117-124.	0.7	6
8	Determining the energy spectrum of clinical linear accelerator using an optimized photon beam transmission protocol. Medical Physics, 2019, 46, 3285-3297.	3.0	6
9	Development of a Geant4-based independent patient dose validation system with an elaborate multileaf collimator simulation model. Journal of Applied Clinical Medical Physics, 2019, 20, 94-106.	1.9	5
10	Experimental evaluation of fuel rod pattern analysis in fuel assembly using Yonsei single-photon emission computed tomography (YSECT). Nuclear Engineering and Technology, 2022, 54, 1982-1990.	2.3	3
11	Development of a direction-sensitive gamma-ray monitoring system using a gamma camera with a dual-sided collimator: A Monte Carlo study. Applied Radiation and Isotopes, 2021, 178, 109937.	1.5	2
12	Development of accurate dose evaluation technique of X-ray inspection for quality assurance of semiconductor with Monte Carlo simulation. Applied Radiation and Isotopes, 2019, 154, 108851.	1.5	1
13	Long-Term Feasibility of 13.56 MHz Modulated Electro-Hyperthermia-Based Preoperative Thermoradiochemotherapy in Locally Advanced Rectal Cancer. Cancers, 2022, 14, 1271.	3.7	1
14	Preliminary study of artificial intelligence-based fuel-rod pattern analysis of low-quality tomographic image of fuel assembly. Nuclear Engineering and Technology, 2022, , .	2.3	1