

Takuya Furuta

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

1,904
citations

933447

10
h-index

794594

19
g-index

23
all docs

23
docs citations

23
times ranked

1515
citing authors

#	ARTICLE	IF	CITATIONS
1	Features of Particle and Heavy Ion Transport code System (PHITS) version 3.02. Journal of Nuclear Science and Technology, 2018, 55, 684-690.	1.3	915
2	Particle and Heavy Ion Transport code System, PHITS, version 2.52. Journal of Nuclear Science and Technology, 2013, 50, 913-923.	1.3	700
3	Benchmark study of the recent version of the PHITS code. Journal of Nuclear Science and Technology, 2017, 54, 617-635.	1.3	115
4	PARaDIM: A PHITS-Based Monte Carlo Tool for Internal Dosimetry with Tetrahedral Mesh Computational Phantoms. Journal of Nuclear Medicine, 2019, 60, 1802-1811.	5.0	27
5	Study of radiation dose reduction of buildings of different sizes and materials. Journal of Nuclear Science and Technology, 2015, 52, 897-904.	1.3	25
6	Age-dependent dose conversion coefficients for external exposure to radioactive cesium in soil. Journal of Nuclear Science and Technology, 2016, 53, 69-81.	1.3	23
7	Individual dosimetry system for targeted alpha therapy based on PHITS coupled with microdosimetric kinetic model. EJNMMI Physics, 2021, 8, 4.	2.7	19
8	Implementation of tetrahedral-mesh geometry in Monte Carlo radiation transport code PHITS. Physics in Medicine and Biology, 2017, 62, 4798-4810.	3.0	16
9	Medical application of particle and heavy ion transport code system PHITS. Radiological Physics and Technology, 2021, 14, 215-225.	1.9	15
10	A scalable and deformable stylized model of the adult human eye for radiation dose assessment. Physics in Medicine and Biology, 2018, 63, 105017.	3.0	12
11	Simulation study of personal dose equivalent for external exposure to radioactive cesium distributed in soil. Journal of Nuclear Science and Technology, 2017, 54, 1018-1027.	1.3	10
12	A computational approach using reflection boundaries for dose calculation in infinitely expanded radiation field. Radiation Protection Dosimetry, 2015, 167, 392-398.	0.8	9
13	Computation Speeds and Memory Requirements of Mesh-Type ICRP Reference Computational Phantoms in Geant4, MCNP6, and PHITS. Health Physics, 2019, 116, 664-676.	0.5	8
14	Dosimetric dependence of ocular structures on eye size and shape for external radiation fields of electrons, photons, and neutrons. Journal of Radiological Protection, 2019, 39, 825-837.	1.1	2
15	Re-evaluation of Radiation-Energy Transfer to an Extraction Solvent in a Minor-Actinide-Separation Process Based on Consideration of Radiation Permeability. Solvent Extraction and Ion Exchange, 2021, 39, 74-89.	2.0	2
16	Technical Note: validation of a material assignment method for a retrospective study of carbon-ion radiotherapy using Monte Carlo simulation. Journal of Radiation Research, 2021, 62, 846-855.	1.6	2
17	Development of the DICOM-based Monte Carlo dose reconstruction system for a retrospective study on the secondary cancer risk in carbon ion radiotherapy. Physics in Medicine and Biology, 2022, 67, 145002.	3.0	2
18	Simulation code for estimating external gamma-ray doses from a radioactive plume and contaminated ground using a local-scale atmospheric dispersion model. PLoS ONE, 2021, 16, e0245932.	2.5	1

#	ARTICLE	IF	CITATIONS
19	Influence of distant scatterer on air kerma measurement in the evaluation of diagnostic X-rays using Monte Carlo simulation. Radiological Physics and Technology, 2021, 14, 381-389.	1.9	0