

Dousatsu Sakata

List of Publications by Year in descending order

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papers

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citations

257101

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docs citations

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times ranked

5918
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of the Geant4-DNA Simulation Toolkit for Radiobiological Applications at the Cellular and DNA Level. <i>Cancers</i> , 2022, 14, 35.	1.7	43
2	Report on G4Med, a Geant4 benchmarking system for medical physics applications developed by the Geant4 Medical Simulation Benchmarking Group. <i>Medical Physics</i> , 2021, 48, 19-56.	1.6	92
3	Application of lung substitute material as ripple filter for multi-ion therapy with helium-, carbon-, oxygen-, and neon-ion beams. <i>Physics in Medicine and Biology</i> , 2021, 66, 055002.	1.6	5
4	Estimation of X-ray Energy Spectrum of Cone-Beam Computed Tomography Scanner Using Percentage Depth Dose Measurements and Machine Learning Approach. <i>Journal of the Physical Society of Japan</i> , 2021, 90, 074801.	0.7	5
5	DNA double-strand breaks in cancer cells as a function of proton linear energy transfer and its variation in time. <i>International Journal of Radiation Biology</i> , 2021, 97, 1-12.	1.0	9
6	Computational modeling for the evaluation of suppressed scintillation yields in plastic scintillators using Geant4. <i>Physica Medica</i> , 2021, 89, 258-264.	0.4	1
7	Effects of loading a magnetic field longitudinal to the linear particle-beam track on yields of reactive oxygen species in water. <i>Free Radical Research</i> , 2021, , 1-9.	1.5	2
8	A Geant4-DNA Evaluation of Radiation-Induced DNA Damage on a Human Fibroblast. <i>Cancers</i> , 2021, 13, 4940.	1.7	13
9	Performance Evaluation for Repair of HSGc-C5 Carcinoma Cell Using Geant4-DNA. <i>Cancers</i> , 2021, 13, 6046.	1.7	6
10	Improved integrated nucleus-nucleus inelastic cross sections for light nuclides in Geant4. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2020, 463, 27-29.	0.6	2
11	Nuclear-interaction correction for patient dose calculations in treatment planning of helium-, carbon-, oxygen-, and neon-ion beams. <i>Physics in Medicine and Biology</i> , 2020, 65, 025004.	1.6	13
12	Fully integrated Monte Carlo simulation for evaluating radiation induced DNA damage and subsequent repair using Geant4-DNA. <i>Scientific Reports</i> , 2020, 10, 20788.	1.6	43
13	Advances in modelling gold nanoparticle radiosensitization using new Geant4-DNA physics models. <i>Physics in Medicine and Biology</i> , 2020, 65, 225017.	1.6	18
14	Geant4 electromagnetic physics progress. <i>EPJ Web of Conferences</i> , 2020, 245, 02009.	0.1	4
15	Evaluation of the influence of physical and chemical parameters on water radiolysis simulations under MeV electron irradiation using Geant4-DNA. <i>Journal of Applied Physics</i> , 2019, 126, .	1.1	34
16	Electron track structure simulations in a gold nanoparticle using Geant4-DNA. <i>Physica Medica</i> , 2019, 63, 98-104.	0.4	35
17	Evaluation of early radiation DNA damage in a fractal cell nucleus model using Geant4-DNA. <i>Physica Medica</i> , 2019, 62, 152-157.	0.4	54
18	Influence of track structure and condensed history physics models of Geant4 to nanoscale electron transport in liquid water. <i>Physica Medica</i> , 2019, 58, 149-154.	0.4	44

#	ARTICLE	IF	CITATIONS
19	Geant4-DNA track structure simulations for gold nanoparticles: The importance of electron discrete models in nanometer volumes. Medical Physics, 2018, 45, 2230-2242.	1.6	56
20	Mechanistic DNA damage simulations in Geant4-DNA part 1: A parameter study in a simplified geometry. Physica Medica, 2018, 48, 135-145.	0.4	82
21	Mechanistic DNA damage simulations in Geant4-DNA Part 2: Electron and proton damage in a bacterial cell. Physica Medica, 2018, 48, 146-155.	0.4	63
22	Development of a new Geant4-DNA electron elastic scattering model for liquid-phase water using the ELSEPA code. Journal of Applied Physics, 2018, 124, .	1.1	21
23	Geant4-DNA example applications for track structure simulations in liquid water: A report from the Geant4-DNA Project. Medical Physics, 2018, 45, e722.	1.6	265
24	Effective atomic number estimation using kV-MV dual-energy source in LINAC. Physica Medica, 2017, 39, 9-15.	0.4	13
25	An implementation of discrete electron transport models for gold in the Geant4 simulation toolkit. Journal of Applied Physics, 2016, 120, .	1.1	50
26	Reconstruction of the treatment area by use of sinogram in helical tomotherapy. Radiation Oncology, 2014, 9, 252.	1.2	4
27	$K^0 \rightarrow \pi^+ \pi^-$ Production in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV Physical Review Letters, 2013, 111, 162301.	2.9	270
28	Elliptic Flow in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV Physical Review Letters, 2013, 111, 162301.	2.9	69
29	Directed Flow of Charged Particles at Midrapidity Relative to the Spectator Plane in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV Physical Review Letters, 2013, 111, 232302.	2.9	58
30	Net-Charge Fluctuations in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV Physical Review Letters, 2013, 111, 232302.	2.9	167
31	Meson Elliptic Flow in Noncentral Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV Physical Review Letters, 2012, 109, 252302.	2.9	171
32	Production of Muons from Heavy Flavor Decays at Forward Rapidity in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV Physical Review Letters, 2012, 109, 252302.	2.9	96
33	Measurement of the Cross Section for Electromagnetic Dissociation with Neutron Emission in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV Physical Review Letters, 2012, 109, 252302.	2.9	86
34	Underlying Event measurements in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV with the ALICE experiment at the LHC. Journal of High Energy Physics, 2012, 2012, 1.	1.6	31
35	Measurement of prompt J/ψ and beauty hadron production cross sections at mid-rapidity in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	54
36	Pion, Kaon, and Proton Production in Central Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV Physical Review Letters, 2012, 109, 252301.	2.9	184

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37	First proton–proton collisions at the LHC as observed with the ALICE detector: measurement of the charged-particle pseudorapidity density at $\sqrt{s}=900$ GeV. European Physical Journal C, 2010, 65, 111-125.	1.4	124
38	Elliptic Flow of Charged Particles in Pb-Pb Collisions at $\sqrt{s}=2.76$ TeV. Physical Review Letters, 2010, 105, 252302.	2.9	659