

Yann Perrot

List of Publications by Year in descending order

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33
papers

1,943
citations

516710

16
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434195

31
g-index

33
all docs

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docs citations

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times ranked

1736
citing authors

#	ARTICLE	IF	CITATIONS
1	Intercomparison of micro- and nanodosimetry Monte Carlo simulations: An approach to assess the influence of different cross-sections for low-energy electrons on the dispersion of results. <i>Radiation Measurements</i> , 2022, 150, 106675.	1.4	5
2	Nanodosimetric Calculations of Radiation-Induced DNA Damage in a New Nucleus Geometrical Model Based on the Isochore Theory. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3770.	4.1	7
3	Review of the Geant4-DNA Simulation Toolkit for Radiobiological Applications at the Cellular and DNA Level. <i>Cancers</i> , 2022, 14, 35.	3.7	43
4	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.	3.0	92
5	Assessment of DNA damage with an adapted independent reaction time approach implemented in Geant4-DNA for the simulation of diffusion-controlled reactions between radio-induced reactive species and a chromatin fiber. <i>Medical Physics</i> , 2021, 48, 890-901.	3.0	10
6	Radiation Enhancer Effect of Platinum Nanoparticles in Breast Cancer Cell Lines: In Vitro and In Silico Analyses. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4436.	4.1	25
7	Geant4-DNA simulation of the pre-chemical stage of water radiolysis and its impact on initial radiochemical yields. <i>Physica Medica</i> , 2021, 88, 86-90.	0.7	20
8	TOPAS-nBio validation for simulating water radiolysis and DNA damage under low-LET irradiation. <i>Physics in Medicine and Biology</i> , 2021, 66, 175026.	3.0	16
9	Modeling early radiation DNA damage occurring during [¹⁷⁷ Lu]-DOTA-[Tyr ³]octreotate radionuclide therapy. <i>Journal of Nuclear Medicine</i> , 2021, , jnumed.121.262610.	5.0	2
10	A Geant4-DNA Evaluation of Radiation-Induced DNA Damage on a Human Fibroblast. <i>Cancers</i> , 2021, 13, 4940.	3.7	13
11	Secondary neutron dose contribution from pencil beam scanning, scattered and spatially fractionated proton therapy. <i>Physics in Medicine and Biology</i> , 2021, 66, 225010.	3.0	8
12	DNA damage modeled with Geant4-DNA: effects of plasmid DNA conformation and experimental conditions. <i>Physics in Medicine and Biology</i> , 2021, 66, 245017.	3.0	5
13	Independent reaction times method in Geant4-DNA: Implementation and performance. <i>Medical Physics</i> , 2020, 47, 5919-5930.	3.0	27
14	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, .	2.5	34
15	Assessment of Radio-Induced Damage in Endothelial Cells Irradiated with 40 kVp, 220 kVp, and 4 MV X-rays by Means of Micro and Nanodosimetric Calculations. <i>International Journal of Molecular Sciences</i> , 2019, 20, 6204.	4.1	23
16	Radiation dosimetry of [¹³¹ I]ICF01012 in rabbits: Application to targeted radionuclide therapy for human melanoma treatment. <i>Medical Physics</i> , 2018, 45, 5251-5262.	3.0	7
17	Theranostic Approach for Metastatic Pigmented Melanoma Using ICF15002, a Multimodal Radiotracer for Both PET Imaging and Targeted Radionuclide Therapy. <i>Neoplasia</i> , 2017, 19, 17-27.	5.3	14
18	Performance Evaluation of Multithreaded Geant4 Simulations Using an Intel Xeon Phi Cluster. <i>Scientific Programming</i> , 2015, 2015, 1-10.	0.7	2

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19	Track structure modeling in liquid water: A review of the Geant4-DNA very low energy extension of the Geant4 Monte Carlo simulation toolkit. <i>Physica Medica</i> , 2015, 31, 861-874.	0.7	373
20	Coupling of Geant4-DNA physics models into the GATE Monte Carlo platform: Evaluation of radiation-induced damage for clinical and preclinical radiation therapy beams. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015, 353, 46-55.	1.4	10
21	[123I]ICF01012 melanoma imaging and [131I]ICF01012 dosimetry allow adapted internal targeted radiotherapy in preclinical melanoma models. <i>European Journal of Dermatology</i> , 2015, 25, 29-35.	0.6	15
22	PDB4DNA: Implementation of DNA geometry from the Protein Data Bank (PDB) description for Geant4-DNA Monte-Carlo simulations. <i>Computer Physics Communications</i> , 2015, 192, 282-288.	7.5	33
23	Dose point kernels in liquid water: An intra-comparison between GEANT4-DNA and a variety of Monte Carlo codes. <i>Applied Radiation and Isotopes</i> , 2014, 83, 137-141.	1.5	42
24	Internal dosimetry through GATE simulations of preclinical radiotherapy using a melanin-targeting ligand. <i>Physics in Medicine and Biology</i> , 2014, 59, 2183-2198.	3.0	19
25	Comparison of Geant4-DNA simulation of S-values with other Monte Carlo codes. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2014, 319, 87-94.	1.4	26
26	A review of the use and potential of the GATE Monte Carlo simulation code for radiation therapy and dosimetry applications. <i>Medical Physics</i> , 2014, 41, 064301.	3.0	332
27	Simulating radial dose of ion tracks in liquid water simulated with Geant4-DNA: A comparative study. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2014, 333, 92-98.	1.4	38
28	SU-E-T-565: Radiation Resistance of Cancer Cells Using GEANT4 DNA: RACE. <i>Medical Physics</i> , 2014, 41, 357-358.	3.0	1
29	Intensity-modulated arc therapy using the gate Monte Carlo simulation platform in a grid environment. <i>Physica Medica</i> , 2013, 29, e24.	0.7	0
30	GATE V6: a major enhancement of the GATE simulation platform enabling modelling of CT and radiotherapy. <i>Physics in Medicine and Biology</i> , 2011, 56, 881-901.	3.0	640
31	Comparison of GATE/GEANT4 with EGSnrc and MCNP for electron dose calculations at energies between 15 keV and 20 MeV. <i>Physics in Medicine and Biology</i> , 2011, 56, 811-827.	3.0	60
32	SU-E-T-708: Validation of the New GATE 6.0 Monte Carlo Platform for Radiation Therapy. Investigations on Simulation Parameters. <i>Medical Physics</i> , 2011, 38, 3653-3653.	3.0	0
33	VALIDATION OF ELECTRON RADIOTHERAPY BEAMS USING GATE/GEANT4 IN VOXELISED PHANTOMS. <i>Radiotherapy and Oncology</i> , 2009, 92, S71.	0.6	1