Marie Claude Bordage

List of Publications by Year
in descending order

32	2,169	279487 23	414034 32
papers	citations	h-index	g-index

32	32	32	1345
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Review of the Geant4-DNA Simulation Toolkit for Radiobiological Applications at the Cellular and DNA Level. Cancers, 2022, 14, 35.	1.7	43
2	Electron transport in DNA bases: An extension of the Geant4-DNA Monte Carlo toolkit. Nuclear Instruments & Methods in Physics Research B, 2021, 488, 70-82.	0.6	14
3	A Geant4-DNA Evaluation of Radiation-Induced DNA Damage on a Human Fibroblast. Cancers, 2021, 13, 4940.	1.7	13
4	Fully integrated Monte Carlo simulation for evaluating radiation induced DNA damage and subsequent repair using Geant4-DNA. Scientific Reports, 2020, 10, 20788.	1.6	43
5	Monte Carlo dosimetry of a realistic multicellular model of follicular lymphoma in a context of radioimmunotherapy. Medical Physics, 2020, 47, 5222-5234.	1.6	5
6	Geant4 electromagnetic physics progress. EPJ Web of Conferences, 2020, 245, 02009.	0.1	4
7	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, .	1.1	34
8	Electron track structure simulations in a gold nanoparticle using Geant4-DNA. Physica Medica, 2019, 63, 98-104.	0.4	35
9	Evaluation of early radiation DNA damage in a fractal cell nucleus model using Geant4-DNA. Physica Medica, 2019, 62, 152-157.	0.4	54
10	Track structure simulations of proximity functions in liquid water using the Geant4-DNA toolkit. Journal of Applied Physics, 2019, 125, .	1.1	25
11	Progress of Geant4 electromagnetic physics developments and applications. EPJ Web of Conferences, 2019, 214, 02046.	0.1	15
12	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. International Journal of Molecular Sciences, 2019, 20, 6204.	1.8	23
13	Influence of track structure and condensed history physics models of Geant4 to nanoscale electron transport in liquid water. Physica Medica, 2019, 58, 149-154.	0.4	44
14	Geant4â€DNA trackâ€structure simulations for gold nanoparticles: The importance of electron discrete models in nanometer volumes. Medical Physics, 2018, 45, 2230-2242.	1.6	56
15	Geant4â€DNA example applications for track structure simulations in liquid water: A report from the Geant4â€DNA Project. Medical Physics, 2018, 45, e722.	1.6	265
16	Low-energy electron dose-point kernel simulations using new physics models implemented in Geant4-DNA. Nuclear Instruments & Methods in Physics Research B, 2017, 398, 13-20.	0.6	15
17	Microdosimetry of electrons in liquid water using the low-energy models of Geant4. Journal of Applied Physics, 2017, 122, .	1.1	74
18	LXCat: an Openâ€Access, Webâ€Based Platform for Data Needed for Modeling Low Temperature Plasmas. Plasma Processes and Polymers, 2017, 14, 1600098.	1.6	188

#	Article	IF	Citations
19	An implementation of discrete electron transport models for gold in the Geant4 simulation toolkit. Journal of Applied Physics, 2016, 120, .	1.1	50
20	Implementation of new physics models for low energy electrons in liquid water in Geant4-DNA. Physica Medica, 2016, 32, 1833-1840.	0.4	61
21	Track structure modeling in liquid water: A review of the Geant4-DNA very low energy extension of the Geant4 Monte Carlo simulation toolkit. Physica Medica, 2015, 31, 861-874.	0.4	373
22	Dose point kernels in liquid water: An intra-comparison between GEANT4-DNA and a variety of Monte Carlo codes. Applied Radiation and Isotopes, 2014, 83, 137-141.	0.7	42
23	Comparisons of sets of electronâ€“neutral scattering cross sections and swarm parameters in noble gases: I. Argon. Journal Physics D: Applied Physics, 2013, 46, 334001.	1.3	70
24	Comparisons of sets of electronâ€“neutral scattering cross sections and swarm parameters in noble gases: II. Helium and neon. Journal Physics D: Applied Physics, 2013, 46, 334002.	1.3	61
25	Comparisons of sets of electronâ€“neutral scattering cross sections and swarm parameters in noble gases: III. Krypton and xenon. Journal Physics D: Applied Physics, 2013, 46, 334003.	1.3	35
26	Determination of Electron Collision Cross Sections Set for Tetramethysilane. Plasma Science and Technology, 2007, 9, 756-759.	0.7	15
27	Crossâ€Sections, Rate Constants and Transport Coefficients in Silane Plasma Chemistry. Contributions To Plasma Physics, 1996, 36, 3-49.	0.5	323
28	Determination of a set of electron impact cross sections in tetrafluoromethane consistent with experimental determination of swarm parameters. Journal of Applied Physics, 1996, 80, 1325-1336.	1.1	34
29	A survey of the numerical methods currently in use to describe the motion of an electron swarm in a weakly ionized gas. Transport Theory and Statistical Physics, 1986, 15, 705-757.	0.4	26
30	Comparisons between different methods of solution of the Boltzmann equation adapted to the calculation of swarm parameters in a weakly ionised medium. Journal Physics D: Applied Physics, 1984, 17, 2199-2214.	1.3	59
31	The application of a modified form of theSN method to the calculation of swarm parameters of electrons in a weakly ionised equilibrium medium. Journal of Computational Physics, 1983, 50, 116-137.	1.9	49
32	Spectroscopic measurements on discharges along a dielectric surface. Journal of Applied Physics, 1982, 53, 8568-8576.	1.1	21