Susanna Guatelli

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182 28 146 21,591 g-index h-index citations papers 25,338 197 2.3 4.99 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
182	Geant4 simulation toolkit. <i>Nuclear Instruments and Methods in Physics Research, Section A:</i> Accelerators, Spectrometers, Detectors and Associated Equipment, 2003 , 506, 250-303	1.2	13788
181	. IEEE Transactions on Nuclear Science, 2006 , 53, 270-278	1.7	3723
180	Recent developments in Geant4. <i>Nuclear Instruments and Methods in Physics Research, Section A:</i> Accelerators, Spectrometers, Detectors and Associated Equipment, 2016 , 835, 186-225	1.2	1435
179	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	2.7	259
178	Geant4-DNA example applications for track structure simulations in liquid water: A report from the Geant4-DNA Project. <i>Medical Physics</i> , 2018 , 45, e722	4.4	145
177	. IEEE Transactions on Nuclear Science, 2005 , 52, 910-918	1.7	137
176	Review of Geant4-DNA applications for micro and nanoscale simulations. <i>Physica Medica</i> , 2016 , 32, 118	7-1 7 00	76
175	. IEEE Transactions on Nuclear Science, 2007 , 54, 2619-2628	1.7	75
174	Geant4 low energy electromagnetic physics		69
173	A goodness-of-fit statistical toolkit. <i>IEEE Transactions on Nuclear Science</i> , 2004 , 51, 2056-2063	1.7	67
172	Geant4 Monte Carlo simulation of absorbed dose and radiolysis yields enhancement from a gold nanoparticle under MeV proton irradiation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2016 , 373, 126-139	1.2	52
171	Microdosimetry of electrons in liquid water using the low-energy models of Geant4. <i>Journal of Applied Physics</i> , 2017 , 122, 024303	2.5	51
170	Geant4 Atomic Relaxation. <i>IEEE Transactions on Nuclear Science</i> , 2007 , 54, 585-593	1.7	44
169	Implementation of a new Monte Carlo-GEANT4 Simulation tool for the development of a proton therapy beam line and verification of the related dose distributions. <i>IEEE Transactions on Nuclear Science</i> , 2005 , 52, 262-265	1.7	42
168	Correction factors to convert microdosimetry measurements in silicon to tissue in C ion therapy. <i>Physics in Medicine and Biology</i> , 2017 , 62, 2055-2069	3.8	41
167	Geant4-DNA track-structure simulations for gold nanoparticles: The importance of electron discrete models in nanometer volumes. <i>Medical Physics</i> , 2018 , 45, 2230-2242	4.4	40
166	Software platform for simulation of a prototype proton CT scanner. <i>Medical Physics</i> , 2017 , 44, 1002-101	164.4	38

165	Geant4 and its validation. Nuclear Physics, Section B, Proceedings Supplements, 2006, 150, 44-49		38	
164	First proof of bismuth oxide nanoparticles as efficient radiosensitisers on highly radioresistant cancer cells. <i>Physica Medica</i> , 2016 , 32, 1444-1452	2.7	37	
163	Investigation of track structure and condensed history physics models for applications in radiation dosimetry on a micro and nano scale in Geant4. <i>Biomedical Physics and Engineering Express</i> , 2018 , 4, 024	40 0 5	36	
162	An implementation of discrete electron transport models for gold in the Geant4 simulation toolkit. <i>Journal of Applied Physics</i> , 2016 , 120, 244901	2.5	34	
161	Characterization of proton pencil beam scanning and passive beam using a high spatial resolution solid-state microdosimeter. <i>Medical Physics</i> , 2017 , 44, 6085-6095	4.4	33	
160	A New Standard DNA Damage (SDD) Data Format. <i>Radiation Research</i> , 2019 , 191, 76-92	3.1	32	
159	Effect of a magnetic field on the track structure of low-energy electrons: a Monte Carlo study. <i>European Physical Journal D</i> , 2010 , 60, 85-92	1.3	31	
158	Report on G4-Med, a Geant4 benchmarking system for medical physics applications developed by the Geant4 Medical Simulation Benchmarking Group. <i>Medical Physics</i> , 2021 , 48, 19-56	4.4	31	
157	3D-Mesa B ridgel S ilicon Microdosimeter: Charge Collection Study and Application to RBE Studies in \$^{12}{rm C}\$ Radiation Therapy. <i>IEEE Transactions on Nuclear Science</i> , 2015 , 62, 504-511	1.7	30	
156	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	1.2	30	
155	3D Silicon Microdosimetry and RBE Study Using \$^{12}{rm C}\$ Ion of Different Energies. <i>IEEE Transactions on Nuclear Science</i> , 2015 , 62, 3027-3033	1.7	28	
154	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	2.7	27	
153	Evaluation of early radiation DNA damage in a fractal cell nucleus model using Geant4-DNA. <i>Physica Medica</i> , 2019 , 62, 152-157	2.7	26	
152	The evolution in the stellar mass of brightest cluster galaxies over the past 10 billion years. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016 , 460, 2862-2874	4.3	26	
151	Comparison of nanodosimetric parameters of track structure calculated by the Monte Carlo codes Geant4-DNA and PTra. <i>Physics in Medicine and Biology</i> , 2012 , 57, 1231-50	3.8	24	
150	Benchmarking and validation of a Geant4-SHADOW Monte Carlo simulation for dose calculations in microbeam radiation therapy. <i>Journal of Synchrotron Radiation</i> , 2014 , 21, 518-28	2.4	23	
149	Validation of Geant4 Atomic Relaxation Against the NIST Physical Reference Data. <i>IEEE Transactions on Nuclear Science</i> , 2007 , 54, 594-603	1.7	23	
148	Local dose enhancement of proton therapy by ceramic oxide nanoparticles investigated with Geant4 simulations. <i>Physica Medica</i> , 2016 , 32, 1584-1593	2.7	23	

147	The relative biological effectiveness for carbon, nitrogen, and oxygen ion beams using passive and scanning techniques evaluated with fully 3D silicon microdosimeters. <i>Medical Physics</i> , 2018 , 45, 2299-2	30 ¹ 8 ⁴	22
146	Radiation damage on sub-cellular scales: beyond DNA. <i>Physics in Medicine and Biology</i> , 2013 , 58, 1251-6	573.8	22
145	Microdosimetry for targeted alpha therapy of cancer. <i>Computational and Mathematical Methods in Medicine</i> , 2012 , 2012, 153212	2.8	22
144	Characterization of prompt gamma-ray emission with respect to the Bragg peak for proton beam range verification: A Monte Carlo study. <i>Physica Medica</i> , 2017 , 33, 197-206	2.7	21
143	Validation of Geant4 fragmentation for Heavy Ion Therapy. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2017 , 869, 68-75	1.2	21
142	Electron track structure simulations in a gold nanoparticle using Geant4-DNA. <i>Physica Medica</i> , 2019 , 63, 98-104	2.7	20
141	MagicPlate-512: A 2D silicon detector array for quality assurance of stereotactic motion adaptive radiotherapy. <i>Medical Physics</i> , 2015 , 42, 2992-3004	4.4	20
140	Thin Silicon Microdosimeter Utilizing 3-D MEMS Fabrication Technology: Charge Collection Study and Its Application in Mixed Radiation Fields. <i>IEEE Transactions on Nuclear Science</i> , 2018 , 65, 467-472	1.7	19
139	A novel high-resolution 2D silicon array detector for small field dosimetry with FFF photon beams. <i>Physica Medica</i> , 2018 , 45, 117-126	2.7	18
138	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, 114301	2.5	18
137	Monte Carlo calculation of the maximum therapeutic gain of tumor antivascular alpha therapy. <i>Medical Physics</i> , 2012 , 39, 1282-8	4.4	18
136	Tissue Equivalence Correction in Silicon Microdosimetry for Protons Characteristic of the LEO Space Environment. <i>IEEE Transactions on Nuclear Science</i> , 2008 , 55, 3407-3413	1.7	18
135	SOI microdosimetry and modified MKM for evaluation of relative biological effectiveness for a passive proton therapy radiation field. <i>Physics in Medicine and Biology</i> , 2018 , 63, 235007	3.8	17
134	Development of a high resolution voxelised head phantom for medical physics applications. <i>Physica Medica</i> , 2017 , 33, 182-188	2.7	16
133	Optimizing dose enhancement with TaO nanoparticles for synchrotron microbeam activated radiation therapy. <i>Physica Medica</i> , 2016 , 32, 1852-1861	2.7	16
132	Alpha particle and proton relative thermoluminescence efficiencies in LiF:Mg,Cu,P:is track structure theory up to the task?. <i>Radiation Protection Dosimetry</i> , 2012 , 150, 359-74	0.9	16
131	The GEANT4 toolkit capability in the hadron therapy field: simulation of a transport beam line. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2006 , 150, 54-57		16
130	Radiation exposure and Mission Strategies for Interplanetary Manned Missions (REMSIM). <i>Earth, Moon and Planets</i> , 2005 , 94, 279-285	0.6	16

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129	Study of the effect of ceramic TaO nanoparticle distribution on cellular dose enhancement in a kilovoltage photon field. <i>Physica Medica</i> , 2016 , 32, 1216-1224	2.7	16	
128	In silico nanodosimetry: new insights into nontargeted biological responses to radiation. <i>Computational and Mathematical Methods in Medicine</i> , 2012 , 2012, 147252	2.8	15	
127	Development of a new Geant4-DNA electron elastic scattering model for liquid-phase water using the ELSEPA code. <i>Journal of Applied Physics</i> , 2018 , 124, 224901	2.5	15	
126	CyberKnife fixed cone and IrisIdefined small radiation fields: Assessment with a high-resolution solid-state detector array. <i>Journal of Applied Clinical Medical Physics</i> , 2018 , 19, 547-557	2.3	14	
125	RBE study using solid state microdosimetry in heavy ion therapy. <i>Radiation Measurements</i> , 2017 , 106, 512-518	1.5	13	
124	Track structure simulations of proximity functions in liquid water using the Geant4-DNA toolkit. <i>Journal of Applied Physics</i> , 2019 , 125, 104301	2.5	13	
123	Comparison of phantom materials for use in quality assurance of microbeam radiation therapy. Journal of Synchrotron Radiation, 2017 , 24, 866-876	2.4	13	
122	Characterization of a Novel Diamond-Based Microdosimeter Prototype for Radioprotection Applications in Space Environments. <i>IEEE Transactions on Nuclear Science</i> , 2012 , 59, 3110-3116	1.7	13	
121	Packaging Effects on RadFET Sensors for High Energy Physics Experiments. <i>IEEE Transactions on Nuclear Science</i> , 2009 , 56, 2061-2069	1.7	13	
120	Fully integrated Monte Carlo simulation for evaluating radiation induced DNA damage and subsequent repair using Geant4-DNA. <i>Scientific Reports</i> , 2020 , 10, 20788	4.9	12	
119	BrachyView, a novel inbody imaging system for HDR prostate brachytherapy: design and Monte Carlo feasibility study. <i>Medical Physics</i> , 2013 , 40, 071715	4.4	12	
118	Tissue equivalency of phantom materials for neutron dosimetry in proton therapy. <i>Medical Physics</i> , 2009 , 36, 5412-9	4.4	12	
117	Opportunistic dose amplification for proton and carbon ion therapy via capture of internally generated thermal neutrons. <i>Scientific Reports</i> , 2018 , 8, 16257	4.9	12	
116	Toward personalized synchrotron microbeam radiation therapy. <i>Scientific Reports</i> , 2020 , 10, 8833	4.9	11	
115	In-field and out-of-file application in 12C ion therapy using fully 3D silicon microdosimeters. <i>Radiation Measurements</i> , 2018 , 115, 55-59	1.5	11	
114	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,	6.3	11	
113	A Novel Silicon Microdosimeter Using 3D Sensitive Volumes: Modeling the Response in Neutron Fields Typical of Aviation. <i>IEEE Transactions on Nuclear Science</i> , 2014 , 61, 1552-1557	1.7	10	
112	Tissue Equivalence Study of a Novel Diamond-Based Microdosimeter for Galactic Cosmic Rays and Solar Particle Events. <i>IEEE Transactions on Nuclear Science</i> , 2014 , 61, 1544-1551	1.7	10	

111	Progress in Geant4 Electromagnetic Physics Modelling and Validation. <i>Journal of Physics:</i> Conference Series, 2015 , 664, 072021	0.3	10
110	A comparison of X-ray and proton beam low energy secondary electron track structures using the low energy models of Geant4. <i>International Journal of Radiation Biology</i> , 2012 , 88, 164-70	2.9	10
109	Implementation of a new Monte Carlo simulation tool for the development of a proton therapy beam line and verification of the related dose distributions 2003 ,		10
108	Radiation dose enhancement at tissue-tungsten interfaces in HDR brachytherapy. <i>Physics in Medicine and Biology</i> , 2014 , 59, 6659	3.8	9
107	Effect of a static magnetic field on nanodosimetric quantities in a DNA volume. <i>International Journal of Radiation Biology</i> , 2012 , 88, 183-8	2.9	9
106	Monte Carlo study of the energy response and depth dose water equivalence of the MOSkin radiation dosimeter at clinical kilovoltage photon energies. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2011 , 34, 273-9	1.9	9
105	Distributed geant4 simulation in medical and space science applications using DIANE framework and the GRID. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2003 , 125, 327-331		9
104	Experience with software process in physics projects		9
103	Progress of Geant4 electromagnetic physics developments and applications. <i>EPJ Web of Conferences</i> , 2019 , 214, 02046	0.3	9
102	A convenient verification method of the entrance photo-neutron dose for an 18 MV medical linac using silicon p-i-n diodes. <i>Radiation Measurements</i> , 2017 , 106, 391-398	1.5	8
101	The investigation of prostatic calcifications using EPIXE analysis and their dosimetric effect in low dose rate brachytherapy treatments using Geant4. <i>Physics in Medicine and Biology</i> , 2015 , 60, 4335-53	3.8	8
100	Recent progress of GEANT4 electromagnetic physics for LHC and other applications. <i>Journal of Physics: Conference Series</i> , 2017 , 898, 042032	0.3	8
99	High spatial resolution microdosimetry with monolithic E -E detector on 12C beam: Monte Carlo simulations and experiment. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2018 , 887, 70-80	1.2	8
98	On Monolithic Silicon Array Detectors for Small-Field Photon Beam Dosimetry. <i>IEEE Transactions on Nuclear Science</i> , 2018 , 65, 2640-2649	1.7	8
97	Modelling the Biological Beamline at HIMAC using Geant4. <i>Journal of Physics: Conference Series</i> , 2019 , 1154, 012003	0.3	8
96	Microdosimetry of a therapeutic proton beam with a mini-TEPC and a MicroPlus-Bridge detector for RBE assessment. <i>Physics in Medicine and Biology</i> , 2020 , 65, 245018	3.8	8
95	SOI Thin Microdosimeter Detectors for Low-Energy Ions and Radiation Damage Studies. <i>IEEE Transactions on Nuclear Science</i> , 2019 , 66, 320-326	1.7	8
94	Monte Carlo investigation of the characteristics of radioactive beams for heavy ion therapy. <i>Scientific Reports</i> , 2019 , 9, 6537	4.9	7

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93	Comparative analysis of the secondary electron yield from carbon nanoparticles and pure water medium. <i>European Physical Journal D</i> , 2015 , 69, 1	1.3	7	
92	A Solid-State Microdosimeter for Dose and Radiation Quality Monitoring for Astronauts in Space. <i>IEEE Transactions on Nuclear Science</i> , 2020 , 67, 169-174	1.7	7	
91	From imaging to dosimetry: GEANT4-based study on the application of Medipix to neutron dosimetry. <i>Radiation Measurements</i> , 2010 , 45, 1355-1358	1.5	7	
90	Validation of Geant4 Physics Models for the Simulation of the Proton Bragg Peak 2006,		7	
89	A powerful simulation tool for medical physics applications: Geant4. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2003 , 125, 80-84		7	
88	SOI Thin Microdosimeters for High LET Single-Event Upset Studies in Fe, O, Xe, and Cocktail Ion Beam Fields. <i>IEEE Transactions on Nuclear Science</i> , 2020 , 67, 146-153	1.7	7	
87	Validation of a Monte Carlo simulation for Microbeam Radiation Therapy on the Imaging and Medical Beamline at the Australian Synchrotron. <i>Scientific Reports</i> , 2019 , 9, 17696	4.9	7	
86	A silicon strip detector array for energy verification and quality assurance in heavy ion therapy. <i>Medical Physics</i> , 2018 , 45, 953-962	4.4	6	
85	Deriving spatially resolved beta dose rates in sediment using the Timepix pixelated detector. <i>Radiation Measurements</i> , 2017 , 106, 483-490	1.5	6	
84	Characterization of an Alternative Diamond Based Microdosimeter Prototype. <i>IEEE Transactions on Nuclear Science</i> , 2014 , 61, 3479-3484	1.7	6	
83			6	
82	Validation of Geant4 electromagnetic physics versus protocol data		6	
81	Advances in modelling gold nanoparticle radiosensitization using new Geant4-DNA physics models. <i>Physics in Medicine and Biology</i> , 2020 , 65, 225017	3.8	6	
80	Tissue equivalence of diamond for heavy charged particles. <i>Radiation Measurements</i> , 2019 , 122, 1-9	1.5	5	
79	Comparative study of alternative Geant4 hadronic ion inelastic physics models for prediction of positron-emitting radionuclide production in carbon and oxygen ion therapy. <i>Physics in Medicine and Biology</i> , 2019 , 64, 155014	3.8	5	
78	Contributions of secondary fragmentation by carbon ion beams in water phantom: Monte Carlo simulation. <i>Journal of Physics: Conference Series</i> , 2017 , 851, 012033	0.3	5	
77	HDR brachytherapy in vivo source position verification using a 2D diode array: A Monte Carlo study. <i>Journal of Applied Clinical Medical Physics</i> , 2018 , 19, 163-172	2.3	5	
76	Systematic investigation on the validity of partition model dosimetry for Y radioembolization using Monte Carlo simulation. <i>Physics in Medicine and Biology</i> , 2017 , 62, 7342-7356	3.8	5	

75	Monte carlo study of MOSFET packaging, optimised for improved energy response: single MOSFET filtration. <i>Radiation Protection Dosimetry</i> , 2010 , 141, 10-7	0.9	5
74	Validation of Geant4 for silicon microdosimetry in heavy ion therapy. <i>Physics in Medicine and Biology</i> , 2020 , 65, 045014	3.8	5
73	. IEEE Transactions on Nuclear Science, 2019 , 66, 519-527	1.7	5
72	Synchrotron activation radiotherapy: Effects of dose-rate and energy spectra to tantalum oxide nanoparticles selective tumour cell radiosentization enhancement. <i>Journal of Physics: Conference Series</i> , 2017 , 777, 012011	0.3	4
71	Feasibility study of a novel multi-strip silicon detector for use in proton therapy range verification quality assurance. <i>Radiation Measurements</i> , 2017 , 106, 378-384	1.5	4
70	Characterization of prompt gamma ray emission for in vivo range verification in particle therapy: A simulation study. <i>Physica Medica</i> , 2019 , 62, 20-32	2.7	4
69	A Monte Carlo study on the feasibility of real-time in vivo source tracking during ultrasound based HDR prostate brachytherapy treatments. <i>Physica Medica</i> , 2019 , 59, 30-36	2.7	4
68	Experimental investigation of the characteristics of radioactive beams for heavy ion therapy. <i>Medical Physics</i> , 2020 , 47, 3123-3132	4.4	4
67	Modelling of the Silicon-On-Insulator microdosimeter response within the International Space Station for astronauts I adiation protection. <i>Radiation Measurements</i> , 2019 , 128, 106182	1.5	4
66	Optimisation of the design of SOI microdosimeters for hadron therapy quality assurance. <i>Physics in Medicine and Biology</i> , 2018 , 63, 215007	3.8	4
65	Review of the Geant4-DNA Simulation Toolkit for Radiobiological Applications at the Cellular and DNA Level <i>Cancers</i> , 2021 , 14,	6.6	4
64	Development of a Geant4 application to characterise a prototype neutron detector based on three orthogonal He tubes inside an HDPE sphere. <i>Physica Medica</i> , 2017 , 33, 189-196	2.7	3
63	Evaluation of silicon based microdosimetry for Boron Neutron Capture Therapy Quality Assurance. <i>Physica Medica</i> , 2019 , 66, 8-14	2.7	3
62	A GEANT4 web-based application to support Intra-Operative Electron Radiotherapy using the European grid infrastructure. <i>Concurrency Computation Practice and Experience</i> , 2015 , 27, 458-472	1.4	3
61	The impact of sensitive volume thickness for silicon on insulator microdosimeters in hadron therapy. <i>Physics in Medicine and Biology</i> , 2020 , 65, 035004	3.8	3
60	MICRODOSIMETRIC APPLICATIONS IN PROTON AND HEAVY ION THERAPY USING SILICON MICRODOSIMETERS. <i>Radiation Protection Dosimetry</i> , 2018 , 180, 365-371	0.9	3
59	Evolution of Diamond based Microdosimetry. <i>Journal of Physics: Conference Series</i> , 2019 , 1154, 012007	0.3	3
58	Charge Collection in n-SOI Planar Microdosimeters. <i>IEEE Transactions on Nuclear Science</i> , 2013 , 60, 4289	- 4 <i>7</i> 96	3

57	Validation of Geant4 Bremsstrahlung models: first results 2006 ,		3
56	Fabrication and First Characterization of Silicon-Based Full 3-D Microdosimeters. <i>IEEE Transactions on Nuclear Science</i> , 2020 , 67, 2490-2500	1.7	3
55	Towards high spatial resolution tissue-equivalent dosimetry for microbeam radiation therapy using organic semiconductors. <i>Journal of Synchrotron Radiation</i> , 2021 , 28, 1444-1454	2.4	3
54	Neutron shielding for a new projected proton therapy facility: A Geant4 simulation study. <i>Physica Medica</i> , 2016 , 32, 1862-1871	2.7	3
53	Study of the X-ray radiation interaction with a multislit collimator for the creation of microbeams in radiation therapy. <i>Journal of Synchrotron Radiation</i> , 2021 , 28, 392-403	2.4	3
52	Latest Geant4 developments for PIXE applications. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2018 , 436, 285-291	1.2	3
51	New silicon microdosimetry probes for RBE and biological dose studies using stationary and movable targets in 12C ion therapy. <i>Journal of Physics: Conference Series</i> , 2017 , 777, 012019	0.3	2
50	INVESTIGATING VARIABLE RBE IN A 12C MINIBEAM FIELD WITH MICRODOSIMETRY AND GEANT4. <i>Radiation Protection Dosimetry</i> , 2019 , 183, 160-166	0.9	2
49	2016,		2
48	Organ doses from hepatic radioembolization with 90Y, 153Sm, 166Ho and 177Lu: A Monte Carlo simulation study using Geant 4. <i>Journal of Physics: Conference Series</i> , 2016 , 694, 012059	0.3	2
47	3D sensitive volume microdosimeter with improved tissue equivalency: charge collection study and its application in 12C ion therapy. <i>Journal of Physics: Conference Series</i> , 2019 , 1154, 012012	0.3	2
46	Models of biological effects of radiation in the Geant4 Toolkit 2006,		2
45	Geant4 Simulation for LHC Radiation Monitoring 2006 ,		2
44	Monte Carlo Simulation of Electromagnetic Interactions of Radiation with Liquid Water in the Framework of the Geant4-DNA Project 2006 ,		2
43			2
42	Background Dose for Systemic Targeted Alpha Therapy. <i>Progress in Nuclear Science and Technology</i> , 2011 , 2, 187-190	0.3	2
41	Geant4 electromagnetic physics progress. EPJ Web of Conferences, 2020, 245, 02009	0.3	2
40	Application of an SOI Microdosimeter for Monitoring of Neutrons in Various Mixed Radiation Field Environments. <i>IEEE Transactions on Nuclear Science</i> , 2021 , 1-1	1.7	2

39	Characterization of the Mixed Radiation Field Produced by Carbon and Oxygen Ion Beams of Therapeutic Energy: A Monte Carlo Simulation Study. <i>Journal of Medical Physics</i> , 2019 , 44, 263-269	0.7	2
38	Dose quantification in carbon ion therapy using in-beam positron emission tomography. <i>Physics in Medicine and Biology</i> , 2020 , 65, 235052	3.8	2
37	Modelling of protons spectra encountered in space using medical accelerator and its microdosimetric characterization. <i>Advances in Space Research</i> , 2021 , 67, 2534-2543	2.4	2
36	X-TREAM protocol for in vitro microbeam radiation therapy at the Australian Synchrotron. <i>Journal of Applied Physics</i> , 2021 , 129, 244902	2.5	2
35	Evaluation of organ doses following prostate treatment with permanent brachytherapy seeds: a Geant4 Monte Carlo simulation study. <i>Journal of Physics: Conference Series</i> , 2019 , 1248, 012049	0.3	1
34	Characterization of prompt gamma rays for in-vivo range verification in hadron therapy: A Geant4 simulation study. <i>Journal of Physics: Conference Series</i> , 2019 , 1154, 012030	0.3	1
33	Monte Carlo validation and optimisation of detector packaging for spectroscopic dosimetry for in vivo urethral dosimetry during low dose rate brachytherapy. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2015 , 38, 455-63	1.9	1
32	Monte Carlo characterisation of the Dose Magnifying Glass for proton therapy quality assurance. <i>Journal of Physics: Conference Series</i> , 2017 , 777, 012015	0.3	1
31	Investigation of optimized prompt gamma detection strategy for real-time Bragg Peak tracking in proton radiation therapy 2015 ,		1
30	A feasibility study of PETiPIX: an ultra high resolution small animal PET scanner. <i>Journal of Instrumentation</i> , 2013 , 8, P12004-P12004	1	1
29	Neutron Dosimeter Development Based on Medipix2. IEEE Transactions on Nuclear Science, 2010,	1.7	1
28	Geant4 Anthropomorphic Phantoms 2006 ,		1
27	Geant4 Simulation in a Distributed Computing Environment 2006,		1
26	Energy imparted and ionization yield in nanometre-sized volumes. <i>Radiation Physics and Chemistry</i> , 2022 , 192, 109910	2.5	1
25	Flexible Polymer X-ray Detectors with Non-fullerene Acceptors for Enhanced Stability: Toward Printable Tissue Equivalent Devices for Medical Applications. <i>ACS Applied Materials & Amp; Interfaces</i> , 2021 , 13, 57703-57712	9.5	1
24	A validated Geant4 model of a whole-body PET scanner with four-layer DOI detectors. <i>Physics in Medicine and Biology</i> , 2020 , 65, 235051	3.8	1
23	First application of a high-resolution silicon detector for proton beam Bragg peak detection in a 0.95 T magnetic field. <i>Medical Physics</i> , 2020 , 47, 181-189	4.4	1
22	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	1.2	1

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environments. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2021 , 1002, 165238	1.2	1
Radiation Shielding Evaluation of Spacecraft Walls Against Heavy Ions Using Microdosimetry. <i>IEEE Transactions on Nuclear Science</i> , 2021 , 68, 897-905	1.7	1
A benchmarking study of Geant4 for Auger electrons emitted by medical radioisotopes. <i>Applied Radiation and Isotopes</i> , 2021 , 174, 109777	1.7	1
Today monolithic silicon array detector for small field dosimetry: the Octa. <i>Journal of Physics:</i> Conference Series, 2019 , 1154, 012002	0.3	O
Technology transfer from HEP computing to the medical field: overview and application to dosimetry. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2006 , 150, 13-18		О
Implementation of the EPICS2017 database for photons in Geant4 <i>Physica Medica</i> , 2022 , 95, 94-115	2.7	0
Physics models for Monte Carlo simulations in carbon ion therapy. <i>Interdisciplinary Research on Particle Collisions and Quantitative Spectroscopy</i> , 2019 , 255-283	0.5	О
Evaluation of GATE-RTion (GATE/Geant4) Monte Carlo simulation settings for proton pencil beam scanning quality assurance. <i>Medical Physics</i> , 2020 , 47, 5817-5828	4.4	0
In-field and out-of-field microdosimetric characterisation of a 62 MeV proton beam at CATANA. <i>Medical Physics</i> , 2021 , 48, 4532-4541	4.4	O
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Abstract ID: 28 Evaluation of silicon and diamond based microdosimetry for boron neutron capture therapy quality assurance. <i>Physica Medica</i> , 2017 , 42, 4	2.7	
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