Denis Dauvergne

List of Publications by Year
in descending order

33 papers	590 citations	687335 13 h-index	642715 23 g-index
34 all docs	34 docs citations	34 times ranked	498 citing authors

#	Article	IF	Citations
1	Influence of sub-nanosecond time of flight resolution for online range verification in proton therapy using the line-cone reconstruction in Compton imaging. Physics in Medicine and Biology, 2021, 66, 125012.	3.0	6
2	A time-of-flight-based reconstruction for real-time prompt-gamma imaging in proton therapy. Physics in Medicine and Biology, 2021, 66, 135003.	3.0	10
3	Energy-adaptive calculation of the most likely path in proton CT. Physics in Medicine and Biology, 2021, 66, 20NT02.	3.0	0
4	A Study of the Radiation Tolerance of CVD Diamond to 70 MeV Protons, Fast Neutrons and 200 MeV Pions. Sensors, 2020, 20, 6648.	3.8	10
5	Biomedical Research Programs at Present and Future High-Energy Particle Accelerators. Frontiers in Physics, 2020, 8, 00380.	2.1	8
6	On the Role of Single Particle Irradiation and Fast Timing for Efficient Online-Control in Particle Therapy. Frontiers in Physics, 2020, 8, .	2.1	6
7	A 100 ps TOF Detection System for On-Line Range-Monitoring in Hadrontherapy. , 2019, , .		2
8	Assessment of Geant4 Prompt-Gamma Emission Yields in the Context of Proton Therapy Monitoring. Frontiers in Oncology, 2016, 6, 10.	2.8	19
9	Probabilistic models and numerical calculation of system matrix and sensitivity in list-mode MLEM 3D reconstruction of Compton camera images. Physics in Medicine and Biology, 2016, 61, 243-264.	3.0	42
10	Monte Carlo comparison of x-ray and proton CT for range calculations of proton therapy beams. Physics in Medicine and Biology, 2015, 60, 7585-7599.	3.0	39
11	Technical Note: Experimental carbon ion range verification in inhomogeneous phantoms using prompt gammas. Medical Physics, 2015, 42, 2342-2346.	3.0	15
12	Crystal assisted experiments for multi-disciplinary physics with heavy ion beams at GANIL. Journal of Physics: Conference Series, 2015, 629, 012010.	0.4	0
13	Monte Carlo simulation of promptÎ³-ray emission in proton therapy using a specific track length estimator. Physics in Medicine and Biology, 2015, 60, 8067-8086.	3.0	7
14	Absolute prompt-gamma yield measurements for ion beam therapy monitoring. Physics in Medicine and Biology, 2015, 60, 565-594.	3.0	52
15	Prompt-Gamma Monitoring of Proton- and Carbon-Therapy. Combined Development of Time-of-Flight Collimated- and Compton-Cameras. Acta Physica Polonica A, 2015, 127, 1445-1448.	0.5	0
16	Development of a Compton camera for medical applications based on silicon strip and scintillation detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 787, 98-101.	1.6	86
17	High energy channelling and the experimental search for the internal clock predicted by Louis de Broglie. Nuclear Instruments & Methods in Physics Research B, 2015, 355, 193-197.	1.4	1
18	Collimated prompt gamma TOF measurements with multi-slit multi-detector configurations. Journal of Instrumentation, 2015, 10, P01011-P01011.	1.2	27

#	Article	IF	Citations
19	Simulation toolkit with CMOS detector in the framework of hadrontherapy. EPJ Web of Conferences, 2014, 66, 10013.	0.3	0
20	Design optimisation of a TOF-based collimated camera prototype for online hadrontherapy monitoring. Physics in Medicine and Biology, 2014, 59, 7653-7674.	3.0	59
21	Real-time proton beam range monitoring by means of prompt-gamma detection with a collimated camera. Physics in Medicine and Biology, 2014, 59, 1327-1338.	3.0	54
22	Assessment and improvements of Geant4 hadronic models in the context of prompt-gamma hadrontherapy monitoring. Physics in Medicine and Biology, 2014, 59, 1747-1772.	3.0	32
23	Radiograaff, a proton irradiation facility for radiobiological studies at a 4MV Van de Graaff accelerator. Nuclear Instruments & Methods in Physics Research B, 2014, 334, 52-58.	1.4	9
24	Machine learning-based patient specific prompt-gamma dose monitoring in proton therapy. Physics in Medicine and Biology, 2013, 58, 4563-4577.	3.0	51
25	Low Statistics Reconstruction of the Compton Camera Point Spread Function in 3D Prompt-$gamma$ Imaging of Ion Beam Therapy. IEEE Transactions on Nuclear Science, 2013, 60, 3355-3363.	2.0	17
26	Electron density resolution determination and systematic uncertainties in proton computed tomography (pCT). , 2012, , .		0
27	Monte Carlo nuclear models evaluation and improvements for real-time prompt gamma ray monitoring in proton and carbon therapy. , 2012, , .		0
28	Front-end multi-channel PMT-associated readout chip for hodoscope application. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 695, 390-393.	1.6	5
29	Image reconstruction for Compton camera applied to 3D prompt γ imaging during ion beam therapy. , 2011, , .		3
30	16-channel readout ASIC for a hodoscope. , 2010, , .		0
31	SWIFT HEAVY IONS IN MATTER. Nuclear Instruments & Methods in Physics Research B, 2009, 267, iii.	1.4	2
32	Interaction of swift clusters with solids: Relation between electron emission yield and energy loss. Radiation Effects and Defects in Solids, 1993, 126, 373-379.	1.2	27
33	Failure Detection Method for GaN-Based Dosimetric Systems. Key Engineering Materials, 0, 644, 78-82.	0.4	1