Fernando Hueso-GonzÃ¡lez

List of Publications by Year
in descending order

45 papers	747 citations	706676 14 h-index	651938 25 g-index
46 all docs	46 docs citations	46 times ranked	485 citing authors

#	Article	IF	Citations
1	A dead-time-free data acquisition system for prompt gamma-ray measurements during proton therapy treatments. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1033, 166701.	0.7	5
2	Comments on â€œSPICE Model of Photomultiplier Tube Under Different Bias Conditionsâ€• IEEE Sensors Journal, 2021, 21, 17395-17402.	2.4	5
3	Compact Method for Proton Range Verification Based on Coaxial Prompt Gamma-Ray Monitoring: A Theoretical Study. IEEE Transactions on Radiation and Plasma Medical Sciences, 2020, 4, 170-183.	2.7	14
4	An open-source platform for interactive collision prevention in photon and particle beam therapy treatment planning. Biomedical Physics and Engineering Express, 2020, 6, 055013.	0.6	6
5	A soft robotic device for patient immobilization in sitting and reclined positions for a compact proton therapy system. , 2020, , .		6
6	Processing of prompt gamma-ray timing data for proton range measurements at a clinical beam delivery. Physics in Medicine and Biology, 2019, 64, 105023.	1.6	38
7	Development of a Clinical Prototype for Range Verification in Proton Therapy based on Prompt Gamma-Ray Spectroscopy. , 2018, , .		0
8	A full-scale clinical prototype for proton range verification using prompt gamma-ray spectroscopy. Physics in Medicine and Biology, 2018, 63, 185019.	1.6	95
9	Tests of MACACO Compton telescope with 4.44 MeV gamma rays. Journal of Instrumentation, 2018, 13, P05007-P05007.	0.5	3
10	Requirements for a Compton camera forin vivorange verification of proton therapy. Physics in Medicine and Biology, 2017, 62, 2795-2811.	1.6	38
11	Towards clinical application of RayStretch for heterogeneity corrections in LDR permanent 125 I prostate brachytherapy. Brachytherapy, 2017, 16, 616-623.	0.2	1
12	Prompt Gamma Rays Detected With a BGO Block Compton Camera Reveal Range Deviations of Therapeutic Proton Beams. IEEE Transactions on Radiation and Plasma Medical Sciences, 2017, 1, 76-86.	2.7	28
13	EP-1500: Application of RayStretch in clinical cases: Heterogeneity corrections in LDR prostate. Radiotherapy and Oncology, 2017, 123, S805.	0.3	0
14	Range Verification in Proton Therapy by Prompt Gamma-Ray Timing (PGT): Steps towards Clinical Implementation. , 2017, , .		2
15	Compton Camera and Prompt Gamma Ray Timing: Two Methods for In Vivo Range Assessment in Proton Therapy. Frontiers in Oncology, 2016, 6, 80.	1.3	40
16	A Compton camera prototype for prompt gamma medical imaging. EPJ Web of Conferences, 2016, 117, 05005.	0.1	19
17	Commissioning of a Compton camera for ion beam range verification via prompt Î³ detection using low-energy and clinical particle beams. Radiotherapy and Oncology, 2016, 118, S2-S3.	0.3	0
18	Clinical applicability of the Compton camera for Prompt Î³-ray Imaging during proton therapy. Radiotherapy and Oncology, 2016, 118, S90-S91.	0.3	2

#	Article	IF	Citations
19	Tests of a Compton imaging prototype in a monoenergetic 4.44 MeV photon fieldâ€"a benchmark setup for prompt gamma-ray imaging devices. Journal of Instrumentation, 2016, 11, P06009-P06009.	0.5	38
20	Scintillator-Based High-Throughput Fast Timing Spectroscopy for Real-Time Range Verification inÂParticle Therapy. IEEE Transactions on Nuclear Science, 2016, 63, 664-672.	1.2	22
21	Characterization of the microbunch time structure of proton pencil beams at a clinical treatment facility. Physics in Medicine and Biology, 2016, 61, 2432-2456.	1.6	36
22	SU-G-201-02: Application of RayStretch in Clinical Cases: A Calculation for Heterogeneity Corrections in LDR Permanent I-125 Prostate Brachytherapy. Medical Physics, 2016, 43, 3623-3623.	1.6	0
23	Characterization of scintillator crystals for usage as prompt gamma monitors in particle therapy. Journal of Instrumentation, 2015, 10, P10033-P10033.	0.5	14
24	Prompt gamma imaging of a pencil beam with a high efficiency compton camera at a clinical proton therapy facility. , 2015, , .		0
25	Prompt Gamma Timing range verification for scattered proton beams. , 2015, , .		1
26	Studies of a proton bunch phase monitor for range verification in proton therapy. , 2015, , .		0
27	First test of the prompt gamma ray timing method with heterogeneous targets at a clinical proton therapy facility. Physics in Medicine and Biology, 2015, 60, 6247-6272.	1.6	83
28	Comparison of LSO and BGO block detectors for prompt gamma imaging in ion beam therapy. Journal of Instrumentation, 2015, 10, P09015-P09015.	0.5	15
29	Simulation and experimental verification of prompt gamma-ray emissions during proton irradiation. Physics in Medicine and Biology, 2015, 60, 4197-4207.	1.6	19
30	A simple analytical method for heterogeneity corrections in low dose rate prostate brachytherapy. Physics in Medicine and Biology, 2015, 60, 5455-5469.	1.6	3
31	Simulation Study of a Combined Pair Production â€" Compton Camera for In-Vivo Dosimetry During Therapeutic Proton Irradiation. IEEE Transactions on Nuclear Science, 2015, 62, 2023-2030.	1.2	5
32	Range assessment in particle therapy based on promptÎ³-ray timing measurements. Physics in Medicine and Biology, 2014, 59, 5399-5422.	1.6	154
33	Test of Compton camera components for prompt gamma imaging at the ELBE bremsstrahlung beam. Journal of Instrumentation, 2014, 9, P05002-P05002.	0.5	41
34	90: Comparison of Scintillation Detectors based on BGO and LSO for Prompt Gamma Imaging in Particle Therapy. Radiotherapy and Oncology, 2014, 110, S44.	0.3	0
35	Fast timing with BGO (and other scintillators) on digital silicon photomultipliers for Prompt Gamma Imaging. , 2014, , .		2
36	Model for the design of a prompt gamma detection system using large scintillators and digital silicon photomultipliers. , 2014, , .		0

#	Article	IF	Citations
37	106: A Beam Control System for an Experimental Beam Line Operated Parallel to a Therapeutic Beam Line. Radiotherapy and Oncology, 2014, 110, S52-S53.	0.3	4
38	Scintillator characterization at energies relevant for a prompt gamma detection system in particle therapy. , 2014, , .		2
39	Particle range retrieval in heterogeneous phantoms with the prompt gamma ray timing method at a clinical proton accelerator. , 2014, , .		0
40	A compton imaging prototype for range verification in particle therapy. , 2013, , .		1
41	Timing of pulsed prompt gamma rays for background discrimination. , 2013, , .		0
42	Compton imaging in a high energetic photon field. , 2013, , .		3
43	Test of a compton imaging prototype at the ELBE bremsstrahlung beam. , 2013, , .		0
44	PO-0966: Comparison of analytical and Monte Carlo calculations for heterogeneity corrections in LDR prostate brachytherapy. Radiotherapy and Oncology, 2013, 106, S372-S373.	0.3	0
45	SU-E-T-530: Comparison of Analytical and Monte Carlo Calculations for Heterogeneity Corrections in LDR Prostate Brachytherapy. Medical Physics, 2013, 40, 327-327.	1.6	0