Charles-Antoine Collins-Fekete

List of Publications by Year
in descending order

15 papers	210 citations	1307594 7 h-index	1058476 14 g-index
15 all docs	15 docs citations	15 times ranked	183 citing authors

#	Article	IF	Citations
1	Experimental comparison of photon versus particle computed tomography to predict tissue relative stopping powers. Medical Physics, 2022, 49, 474-487.	3.0	13
2	A novel proton-integrating radiography system design using a monolithic scintillator detector: Experimental studies. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1027, 166077.	1.6	4
3	Machine learning for proton path tracking in proton computed tomography. Physics in Medicine and Biology, 2021, 66, 105013.	3.0	2
4	Statistical limitations in ion imaging. Physics in Medicine and Biology, 2021, 66, 105009.	3.0	6
5	Assessment of the impact of CT calibration procedures for proton therapy planning on pediatric treatments. Medical Physics, 2021, 48, 5202-5218.	3.0	5
6	Image quality evaluation of projection- and depth dose-based approaches to integrating proton radiography using a monolithic scintillator detector. Physics in Medicine and Biology, 2021, 66, 144001.	3.0	6
7	The accuracy of helium ion CT based particle therapy range prediction: an experimental study comparing different particle and x-ray CT modalities. Physics in Medicine and Biology, 2021, 66, 235010.	3.0	9
8	Theoretical considerations on the spatial resolution limit of single-event particle radiography. Biomedical Physics and Engineering Express, 2020, 6, 055002.	1.2	7
9	Statistical limitations in proton imaging. Physics in Medicine and Biology, 2020, 65, 085011.	3.0	12
10	The impact of secondary fragments on the image quality of helium ion imaging. Physics in Medicine and Biology, 2018, 63, 195016.	3.0	25
11	A theoretical framework to predict the most likely ion path in particle imaging. Physics in Medicine and Biology, 2017, 62, 1777-1790.	3.0	42
12	Stopping power accuracy and achievable spatial resolution of helium ion imaging using a prototype particle CT detector system. Current Directions in Biomedical Engineering, 2017, 3, 401-404.	0.4	23
13	Pre-treatment patient-specific stopping power by combining list-mode proton radiography and x-ray CT. Physics in Medicine and Biology, 2017, 62, 6836-6852.	3.0	31
14	A maximum likelihood method for high resolution proton radiography/proton CT. Physics in Medicine and Biology, 2016, 61, 8232-8248.	3.0	25
15	Sci-Fri PM: Radiation Therapy, Planning, Imaging, and Special Techniques - 01: On the use of proton radiography to reduce beam range uncertainties and improve patient positioning accuracy in proton therapy. Medical Physics, 2016, 43, 4955-4955.	3.0	0