Helge Egil S Pettersen

List of Publications by Year
in descending order

19	189	1307543	1199563
papers	citations	7	12
		h-index	g-index

19	19	19	225
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Proton tracking in a high-granularity Digital Tracking Calorimeter for proton CT purposes. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 860, 51-61.	1.6	22
2	A High-Granularity Digital Tracking Calorimeter Optimized for Proton CT. Frontiers in Physics, 2020, 8, .	2.1	21
3	Design optimization of a pixel-based range telescope for proton computed tomography. Physica Medica, 2019, 63, 87-97.	0.7	18
4	Optic nerve constraints for carbon ion RT at CNAO â€" Reporting and relating outcome to European and Japanese RBE. Radiotherapy and Oncology, 2019, 140, 175-181.	0.6	17
5	Mixed Effect Modeling of Dose and Linear Energy Transfer Correlations With Brain Image Changes After Intensity Modulated Proton Therapy for Skull Base Head and Neck Cancer. International Journal of Radiation Oncology Biology Physics, 2021, 111, 684-692.	0.8	17
6	Normal tissue complication probability models in plan evaluation of children with brain tumors referred to proton therapy. Acta OncolÃ³gica, 2019, 58, 1416-1422.	1.8	12
7	In-situ measurements of rare earth elements in deep sea sediments using nuclear methods. Scientific Reports, 2018, 8, 4925.	3.3	9
8	Image quality of list-mode proton imaging without front trackers. Physics in Medicine and Biology, 2020, 65, 135012.	3.0	8
9	Clinical iterative model development improves knowledge-based plan quality for high-risk prostate cancer with four integrated dose levels. Acta OncolÃ³gica, 2021, 60, 237-244.	1.8	8
10	Helium radiography with a digital tracking calorimeterâ€"a Monte Carlo study for secondary track rejection. Physics in Medicine and Biology, 2021, 66, 035004.	3.0	8
11	Enhancing Radiotherapy for Locally Advanced Non-Small Cell Lung Cancer Patients with iCE, a Novel System for Automated Multi-Criterial Treatment Planning Including Beam Angle Optimization. Cancers, 2021, 13, 5683.	3.7	8
12	Detection of Chemical Warfare (CW) agents and the other hazardous substances by using fast 14 MeV neutrons. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 971, 164066.	1.6	7
13	Accuracy of parameterized proton range models; A comparison. Radiation Physics and Chemistry, 2018, 144, 295-297.	2.8	6
14	Characterization of monolithic CMOS pixel sensor chip with ion beams for application in particle computed tomography. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 958, 162626.	1.6	6
15	Variation in relative biological effectiveness for cognitive structures in proton therapy of pediatric brain tumors. Acta OncolÃ³gica, 2021, 60, 267-274.	1.8	6
16	Investigating particle track topology for range telescopes in particle radiography using convolutional neural networks. Acta OncolÃ³gica, 2021, 60, 1413-1418.	1.8	6
17	Impact of RBE variations on risk estimates of temporal lobe necrosis in patients treated with intensity-modulated proton therapy for head and neck cancer. Acta OncolÃ³gica, 2022, 61, 215-222.	1.8	5
18	Spatial Distribution of Noise Reduction in Four Iterative Reconstruction Algorithms in CTâ€"A Technical Evaluation. Diagnostics, 2020, 10, 647.	2.6	4

#	Article	IF	Citations
19	C/O Logging by Using the Associated Alpha Particle Method: Proof of Principle. IEEE Transactions on Nuclear Science, 2022, 69, 738-744.	2.0	1