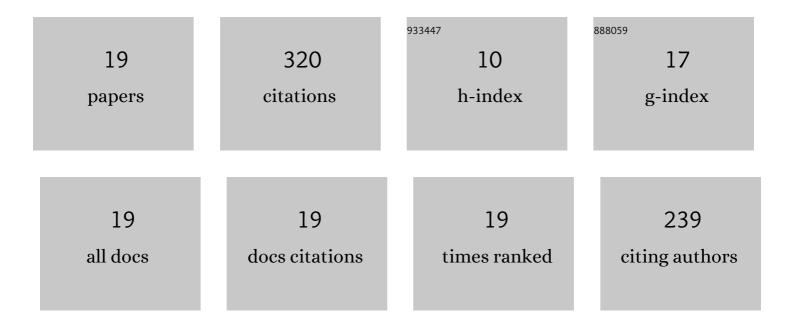
Lennart Volz

List of Publications by Year in descending order

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LENNART VOLZ

#	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	Investigating particle track topology for range telescopes in particle radiography using convolutional neural networks. Acta OncolA ³ gica, 2021, 60, 1413-1418.	1.8	6
3	Helium radiography with a digital tracking calorimeter—a Monte Carlo study for secondary track rejection. Physics in Medicine and Biology, 2021, 66, 035004.	3.0	8
4	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
5	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
6	A High-Granularity Digital Tracking Calorimeter Optimized for Proton CT. Frontiers in Physics, 2020, 8,	2.1	21
7	Image quality of list-mode proton imaging without front trackers. Physics in Medicine and Biology, 2020, 65, 135012.	3.0	8
8	A scintillator-based range telescope for particle therapy. Physics in Medicine and Biology, 2020, 65, 165001.	3.0	8
9	Theoretical considerations on the spatial resolution limit of single-event particle radiography. Biomedical Physics and Engineering Express, 2020, 6, 055002.	1.2	7
10	Experimental exploration of a mixed helium/carbon beam for online treatment monitoring in carbon ion beam therapy. Physics in Medicine and Biology, 2020, 65, 055002.	3.0	15
11	Experimental comparison of proton CT and dual energy x-ray CT for relative stopping power estimation in proton therapy. Physics in Medicine and Biology, 2019, 64, 165002.	3.0	58
12	Improving single-event proton CT by removing nuclear interaction events within the energy/range detector. Physics in Medicine and Biology, 2019, 64, 15NT01.	3.0	15
13	Design optimization of a pixel-based range telescope for proton computed tomography. Physica Medica, 2019, 63, 87-97.	0.7	18
14	Helium CT : Monte Carlo simulation results for an ideal source and detector with comparison to proton CT. Medical Physics, 2018, 45, 3264-3274.	3.0	19
15	The impact of secondary fragments on the image quality of helium ion imaging. Physics in Medicine and Biology, 2018, 63, 195016.	3.0	25
16	[OA027] Helium as a range probe in carbon ion therapy. Physica Medica, 2018, 52, 11.	0.7	5
17	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
18	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

#	Article	IF	CITATIONS
19	Extension of the Fermi–Eyges most-likely path in heterogeneous medium with prior knowledge information. Physics in Medicine and Biology, 2017, 62, 9207-9219.	3.0	14