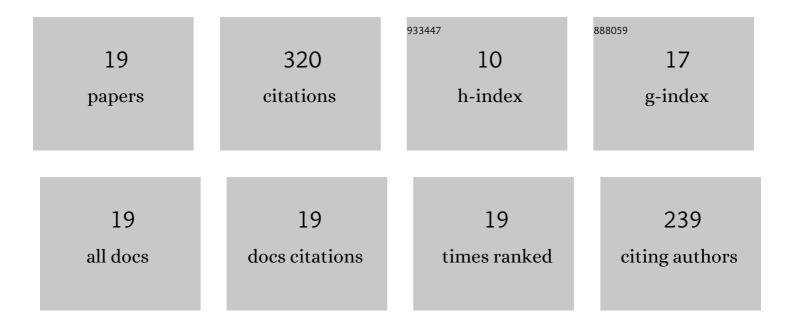
## Lennart Volz

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 <sup>3</sup> gica, 2021, 60, 1413-1418.   | 1.8 | 6         |
| 3  | Helium radiography with a digital tracking calorimeter—a Monte Carlo study for secondary track<br>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.<br>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<br>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<br>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<br>information. Physics in Medicine and Biology, 2017, 62, 9207-9219. | 3.0 | 14        |