

# David Christoffer Hansen

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7634619/publications.pdf>

Version: 2024-02-01

29  
papers

901  
citations

361413

20  
h-index

501196

28  
g-index

30  
all docs

30  
docs citations

30  
times ranked

1108  
citing authors

#	ARTICLE	IF	CITATIONS
1	ScatterNet: A convolutional neural network for cone-beam CT intensity correction. <i>Medical Physics</i> , 2018, 45, 4916-4926.	3.0	101
2	Investigating deformable image registration and scatter correction for CBCT-based dose calculation in adaptive IMPT. <i>Medical Physics</i> , 2016, 43, 5635-5646.	3.0	92
3	ISMRM Raw data format: A proposed standard for MRI raw datasets. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 411-421.	3.0	59
4	Validation of proton stopping power ratio estimation based on dual energy CT using fresh tissue samples. <i>Physics in Medicine and Biology</i> , 2018, 63, 015012.	3.0	54
5	A simulation study on proton computed tomography (CT) stopping power accuracy using dual energy CT scans as benchmark. <i>Acta Oncologica</i> , 2015, 54, 1638-1642.	1.8	53
6	Inter-centre variability of CT-based stopping-power prediction in particle therapy: Survey-based evaluation. <i>Physics and Imaging in Radiation Oncology</i> , 2018, 6, 25-30.	2.9	53
7	A robust empirical parametrization of proton stopping power using dual energy CT. <i>Medical Physics</i> , 2016, 43, 5547-5560.	3.0	45
8	Hyperpolarized <sup>13</sup> C urea relaxation mechanism reveals renal changes in diabetic nephropathy. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 515-518.	3.0	34
9	Evaluation of proton and photon dose distributions recalculated on 2D and 3D U-net-generated pseudoCTs from T1-weighted MR head scans. <i>Acta Oncologica</i> , 2019, 58, 1429-1434.	1.8	33
10	The impact of modeling nuclear fragmentation on delivered dose and radiobiology in ion therapy. <i>Physics in Medicine and Biology</i> , 2012, 57, 5169-5185.	3.0	32
11	Optimizing SHIELD-HIT for carbon ion treatment. <i>Physics in Medicine and Biology</i> , 2012, 57, 2393-2409.	3.0	31
12	Pre-treatment patient-specific stopping power by combining list-mode proton radiography and x-ray CT. <i>Physics in Medicine and Biology</i> , 2017, 62, 6836-6852.	3.0	31
13	Stopping power for particle therapy: The generic library libdEdx and clinically relevant stopping-power ratios for light ions. <i>International Journal of Radiation Biology</i> , 2012, 88, 209-212.	1.8	29
14	The image quality of ion computed tomography at clinical imaging dose levels. <i>Medical Physics</i> , 2014, 41, 111908.	3.0	28
15	Comparison of single and dual energy CT for stopping power determination in proton therapy of head and neck cancer. <i>Physics and Imaging in Radiation Oncology</i> , 2018, 6, 14-19.	2.9	28
16	Fast reconstruction of low dose proton CT by sinogram interpolation. <i>Physics in Medicine and Biology</i> , 2016, 61, 5868-5882.	3.0	25
17	Analytical expressions for water-to-air stopping-power ratios relevant for accurate dosimetry in particle therapy. <i>Physics in Medicine and Biology</i> , 2011, 56, 2515-2533.	3.0	24
18	Fluence correction factors and stopping power ratios for clinical ion beams. <i>Acta Oncologica</i> , 2011, 50, 797-805.	1.8	22

#	ARTICLE	IF	CITATIONS
19	SHIELD-HIT12A - a Monte Carlo particle transport program for ion therapy research. Journal of Physics: Conference Series, 2014, 489, 012004.	0.4	22
20	Comparison of projection- and image-based methods for proton stopping power estimation using dual energy CT. Physics and Imaging in Radiation Oncology, 2017, 3, 28-36.	2.9	22
21	Improved proton computed tomography by dual modality image reconstruction. Medical Physics, 2014, 41, 031904.	3.0	16
22	Voxelwise comparison of perfusion parameters estimated using dynamic contrast enhanced (DCE) computed tomography and DCE-magnetic resonance imaging in locally advanced cervical cancer. Acta Oncologica, 2013, 52, 1360-1368.	1.8	15
23	Fast 4D cone-beam CT from 60s acquisitions. Physics and Imaging in Radiation Oncology, 2018, 5, 69-75.	2.9	15
24	Recent improvements in the SHIELD-HIT code. International Journal of Radiation Biology, 2012, 88, 195-199.	1.8	13
25	Technical Note: Improving proton stopping power ratio determination for a deformable silicone-based 3D dosimeter using dual energy CT. Medical Physics, 2016, 43, 2780-2784.	3.0	11
26	Theoretical and experimental analysis of photon counting detector CT for proton stopping power prediction. Medical Physics, 2018, 45, 5186-5196.	3.0	11
27	SU-C-204: Patient Specific Proton Stopping Powers Estimation by Combining Proton Radiography and Prior Knowledge X-Ray CT Information. Medical Physics, 2015, 42, 3199-3199.	3.0	1
28	SU-D-500-07: Evaluation of the Spatial Resolution of Proton/carbon Computed Tomography Using Modulation Transfer Function. Medical Physics, 2013, 40, 106-107.	3.0	0
29	SU-E-J-37: Combining Proton Radiography and X-Ray CT Information to Better Estimate Relative Proton Stopping Power in a Clinical Environment. Medical Physics, 2014, 41, 163-163.	3.0	0