

David Christoffer Hansen

List of Publications by Year in descending order

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papers

901
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times ranked

1108
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	Fast 4D cone-beam CT from 60s acquisitions. <i>Physics and Imaging in Radiation Oncology</i> , 2018, 5, 69-75.	2.9	15
5	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
6	Theoretical and experimental analysis of photon counting detector CT for proton stopping power prediction. <i>Medical Physics</i> , 2018, 45, 5186-5196.	3.0	11
7	ScatterNet: A convolutional neural network for cone-beam CT intensity correction. <i>Medical Physics</i> , 2018, 45, 4916-4926.	3.0	101
8	Comparison of projection- and image-based methods for proton stopping power estimation using dual energy CT. <i>Physics and Imaging in Radiation Oncology</i> , 2017, 3, 28-36.	2.9	22
9	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
10	ISMRM Raw data format: A proposed standard for MRI raw datasets. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 411-421.	3.0	59
11	Technical Note: Improving proton stopping power ratio determination for a deformable silicone-based 3D dosimeter using dual energy CT. <i>Medical Physics</i> , 2016, 43, 2780-2784.	3.0	11
12	A robust empirical parametrization of proton stopping power using dual energy CT. <i>Medical Physics</i> , 2016, 43, 5547-5560.	3.0	45
13	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
14	Fast reconstruction of low dose proton CT by sinogram interpolation. <i>Physics in Medicine and Biology</i> , 2016, 61, 5868-5882.	3.0	25
15	Hyperpolarized ¹³ C urea relaxation mechanism reveals renal changes in diabetic nephropathy. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 515-518.	3.0	34
16	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
17	SU ₂₀₁₄ : Patient Specific Proton Stopping Powers Estimation by Combining Proton Radiography and Prior Knowledge X-Ray CT Information. <i>Medical Physics</i> , 2015, 42, 3199-3199.	3.0	1
18	The image quality of ion computed tomography at clinical imaging dose levels. <i>Medical Physics</i> , 2014, 41, 111908.	3.0	28

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19	Improved proton computed tomography by dual modality image reconstruction. Medical Physics, 2014, 41, 031904.	3.0	16
20	SHIELD-HIT12A - a Monte Carlo particle transport program for ion therapy research. Journal of Physics: Conference Series, 2014, 489, 012004.	0.4	22
21	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
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	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
24	Recent improvements in the SHIELD-HIT code. International Journal of Radiation Biology, 2012, 88, 195-199.	1.8	13
25	The impact of modeling nuclear fragmentation on delivered dose and radiobiology in ion therapy. Physics in Medicine and Biology, 2012, 57, 5169-5185.	3.0	32
26	Stopping power for particle therapy: The generic library libdEdx and clinically relevant stopping-power ratios for light ions. International Journal of Radiation Biology, 2012, 88, 209-212.	1.8	29
27	Optimizing SHIELD-HIT for carbon ion treatment. Physics in Medicine and Biology, 2012, 57, 2393-2409.	3.0	31
28	Fluence correction factors and stopping power ratios for clinical ion beams. Acta Oncologica, 2011, 50, 797-805.	1.8	22
29	Analytical expressions for water-to-air stopping-power ratios relevant for accurate dosimetry in particle therapy. Physics in Medicine and Biology, 2011, 56, 2515-2533.	3.0	24