

Arthur Lalonde

List of Publications by Year in descending order

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papers

489
citations

759233

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27
all docs

27
docs citations

27
times ranked

465
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of weekly and daily online adaptation for head and neck intensity-modulated proton therapy. Physics in Medicine and Biology, 2021, 66, 055023.	3.0	28
2	Animal tissue-based quantitative comparison of dual-energy CT to SPR conversion methods using high-resolution gel dosimetry. Physics in Medicine and Biology, 2021, 66, 075009.	3.0	13
3	Anatomic changes in head and neck intensity-modulated proton therapy: Comparison between robust optimization and online adaptation. Radiotherapy and Oncology, 2021, 159, 39-47.	0.6	30
4	CT-on-Rails Versus In-Room CBCT for Online Daily Adaptive Proton Therapy of Head-and-Neck Cancers. Cancers, 2021, 13, 5991.	3.7	14
5	Parametrization of multi-energy CT projection data with eigentissue decomposition. Physics in Medicine and Biology, 2020, 65, 155001.	3.0	2
6	Evaluation of CBCT scatter correction using deep convolutional neural networks for head and neck adaptive proton therapy. Physics in Medicine and Biology, 2020, 65, 245022.	3.0	44
7	OC-0187 Comparison of proton range predictions between Single- and Dual-Energy CT using prompt gamma imaging. Radiotherapy and Oncology, 2019, 133, S95-S96.	0.6	0
8	PO-0946 Inter-fraction robustness of DECT-based head and neck proton therapy with reduced range uncertainty margins. Radiotherapy and Oncology, 2019, 133, S510-S511.	0.6	0
9	The potential of photon-counting CT for quantitative contrast-enhanced imaging in radiotherapy. Physics in Medicine and Biology, 2019, 64, 115020.	3.0	12
10	Influence of intravenous contrast agent on dose calculation in proton therapy using dual energy CT. Physics in Medicine and Biology, 2019, 64, 125024.	3.0	14
11	Dosimetric impact of dual-energy CT tissue segmentation for low-energy prostate brachytherapy: a Monte Carlo study. Physics in Medicine and Biology, 2018, 63, 025013.	3.0	19
12	Robust quantitative contrast-enhanced dual-energy CT for radiotherapy applications. Medical Physics, 2018, 45, 3086-3096.	3.0	17
13	Experimental validation of two dual-energy CT methods for proton therapy using heterogeneous tissue samples. Medical Physics, 2018, 45, 48-59.	3.0	61
14	The impact of dual- and multi-energy CT on proton pencil beam range uncertainties: a Monte Carlo study. Physics in Medicine and Biology, 2018, 63, 195012.	3.0	17
15	PO-0971: Monte Carlo validation of a new dual-energy CT method for proton therapy in a patient-like geometry. Radiotherapy and Oncology, 2018, 127, S535-S536.	0.6	0
16	OC-0084: A novel method to estimate mean excitation energies and their uncertainties for particle therapy. Radiotherapy and Oncology, 2018, 127, S42-S43.	0.6	0
17	Optimized $\langle I \rangle$ -values for use with the Bragg additivity rule and their impact on proton stopping power and range uncertainty. Physics in Medicine and Biology, 2018, 63, 165007.	3.0	31
18	Unsupervised classification of tissues composition for Monte Carlo dose calculation. Physics in Medicine and Biology, 2018, 63, 15NT01.	3.0	2

#	ARTICLE	IF	CITATIONS
19	The potential of dual-energy CT to reduce proton beam range uncertainties. Medical Physics, 2017, 44, 2332-2344.	3.0	103
20	Abstract ID: 114 The impact of dual-energy CT tissue segmentation for low-dose rate prostate brachytherapy Monte Carlo dose calculations. Physica Medica, 2017, 42, 24.	0.7	0
21	Abstract ID: 113 Accurate extraction of tissues parameters for Monte Carlo simulations using multi-energy CT. Physica Medica, 2017, 42, 23-24.	0.7	0
22	A Bayesian approach to solve proton stopping powers from noisy multi-energy CT data. Medical Physics, 2017, 44, 5293-5302.	3.0	25
23	A general method to derive tissue parameters for Monte Carlo dose calculation with multi-energy CT. Physics in Medicine and Biology, 2016, 61, 8044-8069.	3.0	57
24	A New Quantitative Imaging Method for Dual- and Multienergy Computed Tomographic Data. International Journal of Radiation Oncology Biology Physics, 2016, 96, S79.	0.8	0
25	SU-F-J-195: On the Performance of Four Dual Energy CT Formalisms for Extracting Proton Stopping Powers. Medical Physics, 2016, 43, 3453-3453.	3.0	0
26	TU-AB-BRC-03: Accurate Tissue Characterization for Monte Carlo Dose Calculation Using Dual-and Multi-Energy CT Data. Medical Physics, 2016, 43, 3730-3730.	3.0	0
27	TU-FG-BRB-02: The Impact of Using Dual-Energy CT for Determining Proton Stopping Powers: Comparison Between Theory and Experiments. Medical Physics, 2016, 43, 3756-3756.	3.0	0