

Arthur Lalonde

List of Publications by Year in descending order

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27
papers

489
citations

759055

12
h-index

887953

17
g-index

27
all docs

27
docs citations

27
times ranked

465
citing authors

#	ARTICLE	IF	CITATIONS
1	The potential of dual-energy CT to reduce proton beam range uncertainties. <i>Medical Physics</i> , 2017, 44, 2332-2344.	1.6	103
2	Experimental validation of two dual-energy CT methods for proton therapy using heterogeneous tissue samples. <i>Medical Physics</i> , 2018, 45, 48-59.	1.6	61
3	A general method to derive tissue parameters for Monte Carlo dose calculation with multi-energy CT. <i>Physics in Medicine and Biology</i> , 2016, 61, 8044-8069.	1.6	57
4	Evaluation of CBCT scatter correction using deep convolutional neural networks for head and neck adaptive proton therapy. <i>Physics in Medicine and Biology</i> , 2020, 65, 245022.	1.6	44
5	Optimized $\langle I \rangle$ -values for use with the Bragg additivity rule and their impact on proton stopping power and range uncertainty. <i>Physics in Medicine and Biology</i> , 2018, 63, 165007.	1.6	31
6	Anatomic changes in head and neck intensity-modulated proton therapy: Comparison between robust optimization and online adaptation. <i>Radiotherapy and Oncology</i> , 2021, 159, 39-47.	0.3	30
7	Comparison of weekly and daily online adaptation for head and neck intensity-modulated proton therapy. <i>Physics in Medicine and Biology</i> , 2021, 66, 055023.	1.6	28
8	A Bayesian approach to solve proton stopping powers from noisy multi-energy CT data. <i>Medical Physics</i> , 2017, 44, 5293-5302.	1.6	25
9	Dosimetric impact of dual-energy CT tissue segmentation for low-energy prostate brachytherapy: a Monte Carlo study. <i>Physics in Medicine and Biology</i> , 2018, 63, 025013.	1.6	19
10	Robust quantitative contrast-enhanced dual-energy CT for radiotherapy applications. <i>Medical Physics</i> , 2018, 45, 3086-3096.	1.6	17
11	The impact of dual- and multi-energy CT on proton pencil beam range uncertainties: a Monte Carlo study. <i>Physics in Medicine and Biology</i> , 2018, 63, 195012.	1.6	17
12	Influence of intravenous contrast agent on dose calculation in proton therapy using dual energy CT. <i>Physics in Medicine and Biology</i> , 2019, 64, 125024.	1.6	14
13	CT-on-Rails Versus In-Room CBCT for Online Daily Adaptive Proton Therapy of Head-and-Neck Cancers. <i>Cancers</i> , 2021, 13, 5991.	1.7	14
14	Animal tissue-based quantitative comparison of dual-energy CT to SPR conversion methods using high-resolution gel dosimetry. <i>Physics in Medicine and Biology</i> , 2021, 66, 075009.	1.6	13
15	The potential of photon-counting CT for quantitative contrast-enhanced imaging in radiotherapy. <i>Physics in Medicine and Biology</i> , 2019, 64, 115020.	1.6	12
16	Unsupervised classification of tissues composition for Monte Carlo dose calculation. <i>Physics in Medicine and Biology</i> , 2018, 63, 15NT01.	1.6	2
17	Parametrization of multi-energy CT projection data with eigentissue decomposition. <i>Physics in Medicine and Biology</i> , 2020, 65, 155001.	1.6	2
18	A New Quantitative Imaging Method for Dual- and Multienergy Computed Tomographic Data. <i>International Journal of Radiation Oncology Biology Physics</i> , 2016, 96, S79.	0.4	0

#	ARTICLE	IF	CITATIONS
19	Abstract ID: 114 The impact of dual-energy CT tissue segmentation for low-dose rate prostate brachytherapy Monte Carlo dose calculations. <i>Physica Medica</i> , 2017, 42, 24.	0.4	0
20	Abstract ID: 113 Accurate extraction of tissues parameters for Monte Carlo simulations using multi-energy CT. <i>Physica Medica</i> , 2017, 42, 23-24.	0.4	0
21	PO-0971: Monte Carlo validation of a new dual-energy CT method for proton therapy in a patient-like geometry. <i>Radiotherapy and Oncology</i> , 2018, 127, S535-S536.	0.3	0
22	OC-0084: A novel method to estimate mean excitation energies and their uncertainties for particle therapy. <i>Radiotherapy and Oncology</i> , 2018, 127, S42-S43.	0.3	0
23	OC-0187 Comparison of proton range predictions between Single- and Dual-Energy CT using prompt gamma imaging. <i>Radiotherapy and Oncology</i> , 2019, 133, S95-S96.	0.3	0
24	PO-0946 Inter-fraction robustness of DECT-based head and neck proton therapy with reduced range uncertainty margins. <i>Radiotherapy and Oncology</i> , 2019, 133, S510-S511.	0.3	0
25	SU-F-J-195: On the Performance of Four Dual Energy CT Formalisms for Extracting Proton Stopping Powers. <i>Medical Physics</i> , 2016, 43, 3453-3453.	1.6	0
26	TU-AB-BRC-03: Accurate Tissue Characterization for Monte Carlo Dose Calculation Using Dual-and Multi-Energy CT Data. <i>Medical Physics</i> , 2016, 43, 3730-3730.	1.6	0
27	TU-FG-BRB-02: The Impact of Using Dual-Energy CT for Determining Proton Stopping Powers: Comparison Between Theory and Experiments. <i>Medical Physics</i> , 2016, 43, 3756-3756.	1.6	0