

Esther BÃr

List of Publications by Year in descending order

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Version: 2024-02-01

14
papers

341
citations

1040056

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1058476

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all docs

14
docs citations

14
times ranked

391
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.	3.0	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.	3.0	61
3	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.	3.0	31
4	A Bayesian approach to solve proton stopping powers from noisy multi-energy CT data. <i>Medical Physics</i> , 2017, 44, 5293-5302.	3.0	25
5	Improving radiotherapy planning in patients with metallic implants using the iterative metal artifact reduction (iMAR) algorithm. <i>Biomedical Physics and Engineering Express</i> , 2015, 1, 025206.	1.2	22
6	The application of metal artifact reduction (MAR) in CT scans for radiation oncology by monoenergetic extrapolation with a DECT scanner. <i>Zeitschrift Fur Medizinische Physik</i> , 2015, 25, 314-325.	1.5	20
7	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.	3.0	17
8	Extension of the Fermi's most-likely path in heterogeneous medium with prior knowledge information. <i>Physics in Medicine and Biology</i> , 2017, 62, 9207-9219.	3.0	14
9	Experimental comparison of photon versus particle computed tomography to predict tissue relative stopping powers. <i>Medical Physics</i> , 2022, 49, 474-487.	3.0	13
10	Electron density and effective atomic number estimation in a maximum a posteriori framework for dual-energy computed tomography. <i>Medical Physics</i> , 2020, 47, 4137-4149.	3.0	11
11	The accuracy of helium ion CT based particle therapy range prediction: an experimental study comparing different particle and x-ray CT modalities. <i>Physics in Medicine and Biology</i> , 2021, 66, 235010.	3.0	9
12	Statistical limitations in ion imaging. <i>Physics in Medicine and Biology</i> , 2021, 66, 105009.	3.0	6
13	Assessment of the impact of CT calibration procedures for proton therapy planning on pediatric treatments. <i>Medical Physics</i> , 2021, 48, 5202-5218.	3.0	5
14	DIR-based models to predict weekly anatomical changes in head and neck cancer proton therapy. <i>Physics in Medicine and Biology</i> , 2022, 67, 095001.	3.0	4