George Dedes

List of Publications by Year
in descending order

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28	735	623734	580821
papers	citations	14 h-index	25 g-index

28	28	28	755
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The role of Monte Carlo simulation in understanding the performance of proton computed tomography. Zeitschrift Fur Medizinische Physik, 2022, 32, 23-38.	1.5	10
2	Comparative accuracy and resolution assessment of two prototype proton computed tomography scanners. Medical Physics, 2022, 49, 4671-4681.	3.0	4
3	Varianceâ€based sensitivity analysis for uncertainties in proton therapy: A framework to assess the effect of simultaneous uncertainties in range, positioning, and RBE model predictions on RBEâ€weighted dose distributions. Medical Physics, 2021, 48, 805-818.	3.0	5
4	Proof of concept image artifact reduction by energy-modulated proton computed tomography (EMpCT). Physica Medica, 2021, 81, 237-244.	0.7	11
5	Accounting for prompt gamma emission and detection for range verification in proton therapy treatment planning. Physics in Medicine and Biology, 2021, 66, 055005.	3.0	3
6	An empirical artifact correction for proton computed tomography. Physica Medica, 2021, 86, 57-65.	0.7	7
7	Combining inter-observer variability, range and setup uncertainty in a variance-based sensitivity analysis for proton therapy. Physics and Imaging in Radiation Oncology, 2021, 20, 117-120.	2.9	5
8	Radiation protection modelling for 2.5 Petawatt-laser production of ultrashort x-ray, proton and ion bunches: Monte Carlo model of the Munich CALA facility. Journal of Radiological Protection, 2020, 40, 1048-1073.	1.1	4
9	Joint Dose Minimization and Variance Optimization for Fluence-Modulated Proton CT. , 2020, , .		0
10	Towards a novel small animal proton irradiation platform: the SIRMIO project. Acta OncolÃ³gica, 2019, 58, 1470-1475.	1.8	27
11	Experimental comparison of proton CT and dual energy x-ray CT for relative stopping power estimation in proton therapy. Physics in Medicine and Biology, 2019, 64, 165002.	3.0	58
12	Gel dosimetry for three dimensional proton range measurements in anthropomorphic geometries. Zeitschrift Fur Medizinische Physik, 2019, 29, 162-172.	1.5	22
13	Monte Carlo proton dose calculations using a radiotherapy specific dual-energy CT scanner for tissue segmentation and range assessment. Physics in Medicine and Biology, 2018, 63, 115008.	3.0	29
14	Two-dimensional noise reconstruction in proton computed tomography using distance-driven filtered back-projection of simulated projections. Physics in Medicine and Biology, 2018, 63, 215009.	3.0	21
15	Experimental fluenceâ€modulated proton computed tomography by pencil beam scanning. Medical Physics, 2018, 45, 3287-3296.	3.0	16
16	Comparative Monte Carlo study on the performance of integration- and list-mode detector configurations for carbon ion computed tomography. Physics in Medicine and Biology, 2017, 62, 1096-1112.	3.0	23
17	Application of single- and dual-energy CT brain tissue segmentation to PET monitoring of proton therapy. Physics in Medicine and Biology, 2017, 62, 2427-2448.	3.0	9
18	Abstract ID: 85 Investigating the physics of a CBCT projection shading correction based on a prior CT. Physica Medica, 2017, 42, 17-18.	0.7	0

#	Article	IF	Citations
19	A Monte-Carlo study to assess the effect of 1.5 T magnetic fields on the overall robustness of pencil-beam scanning proton radiotherapy plans for prostate cancer. Physics in Medicine and Biology, 2017, 62, 8470-8482.	3.0	15
20	Decomposing a prior-CT-based cone-beam CT projection correction algorithm into scatter and beam hardening components. Physics and Imaging in Radiation Oncology, 2017, 3, 49-52.	2.9	32
21	Sub-3mm spatial resolution from a large monolithic LaBr₃ (Ce) scintillator. Current Directions in Biomedical Engineering, 2017, 3, 655-659.	0.4	11
22	Characterization of a Compton camera setup with monolithic LaBr<inf>3</inf>(Ce) absorber and segmented GAGG scatter detectors. , 2017, , .		0
23	Comparison of proton therapy treatment planning for head tumors with a pencil beam algorithm on dual and single energy CT images. Medical Physics, 2016, 43, 495-504.	3.0	89
24	Investigating CT to CBCT image registration for head and neck proton therapy as a tool for daily dose recalculation. Medical Physics, 2015, 42, 1354-1366.	3.0	115
25	Phantom based evaluation of CT to CBCT image registration for proton therapy dose recalculation. Physics in Medicine and Biology, 2015, 60, 595-613.	3.0	49
26	Comparing cone-beam CT intensity correction methods for dose recalculation in adaptive intensity-modulated photon and proton therapy for head and neck cancer. Acta OncolÃ³gica, 2015, 54, 1651-1657.	1.8	83
27	Monte Carlo Simulations of Particle Interactions with Tissue in Carbon Ion Therapy. International Journal of Particle Therapy, 2015, 2, 447-458.	1.8	8
28	Filtered backprojection proton CT reconstruction along most likely paths. Medical Physics, 2013, 40, 031103.	3.0	79