George Dedes

List of Publications by Year
in descending order

28 papers	735 citations	623734 14 h-index	580821 25 g-index
28 all docs	28 docs citations	28 times ranked	755 citing authors

#	Article	IF	Citations
1	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
2	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
3	Comparing cone-beam CT intensity correction methods for dose recalculation in adaptive intensity-modulated photon and proton therapy for head and neck cancer. Acta Oncológica, 2015, 54, 1651-1657.	1.8	83
4	Filtered backprojection proton CT reconstruction along most likely paths. Medical Physics, 2013, 40, 031103.	3.0	79
5	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
6	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
7	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
8	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
9	Towards a novel small animal proton irradiation platform: the SIRMIO project. Acta Oncológica, 2019, 58, 1470-1475.	1.8	27
10	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
11	Gel dosimetry for three dimensional proton range measurements in anthropomorphic geometries. Zeitschrift Fur Medizinische Physik, 2019, 29, 162-172.	1.5	22
12	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
13	Experimental fluence‐modulated proton computed tomography by pencil beam scanning. Medical Physics, 2018, 45, 3287-3296.	3.0	16
14	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
15	Sub-3mm spatial resolution from a large monolithic LaBr$_3$ (Ce) scintillator. Current Directions in Biomedical Engineering, 2017, 3, 655-659.	0.4	11
16	Proof of concept image artifact reduction by energy-modulated proton computed tomography (EMpCT). Physica Medica, 2021, 81, 237-244.	0.7	11
17	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
18	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

#	Article	IF	Citations
19	Monte Carlo Simulations of Particle Interactions with Tissue in Carbon Ion Therapy. International Journal of Particle Therapy, 2015, 2, 447-458.	1.8	8
20	An empirical artifact correction for proton computed tomography. Physica Medica, 2021, 86, 57-65.	0.7	7
21	Variance‐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 RBE‐weighted dose distributions. Medical Physics, 2021, 48, 805-818.	3.0	5
22	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
23	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
24	Comparative accuracy and resolution assessment of two prototype proton computed tomography scanners. Medical Physics, 2022, 49, 4671-4681.	3.0	4
25	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
26	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
27	Characterization of a Compton camera setup with monolithic LaBr$_3$(Ce) absorber and segmented GAGG scatter detectors. , 2017, , .		0
28	Joint Dose Minimization and Variance Optimization for Fluence-Modulated Proton CT. , 2020, , .		0