

Geoffrey Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

916
citations

471509

17
h-index

454955

30
g-index

31
all docs

31
docs citations

31
times ranked

1466
citing authors

#	ARTICLE	IF	CITATIONS
1	Unlocking a closed system: dosimetric commissioning of a ring gantry linear accelerator in a multivendor environment. Journal of Applied Clinical Medical Physics, 2021, 22, 21-34.	1.9	5
2	Detection and classification the breast tumors using mask R-CNN on sonograms. Medicine (United States), 2019, 98, e15446.	1.0	119
3	Comprehensive evaluation of the high-resolution diode array for SRS dosimetry. Journal of Applied Clinical Medical Physics, 2019, 20, 13-23.	1.9	35
4	Radiomics features analysis of PET images in oropharyngeal and hypopharyngeal cancer. Medicine (United States), 2019, 98, e15446.	1.0	18
5	Planning Lung Radiotherapy Incorporating Motion Freeze PET/CT Imaging. Applied Sciences (Switzerland), 2018, 8, 1583.	2.5	2
6	Practical quantification of image registration accuracy following the AAPM TG132 report framework. Journal of Applied Clinical Medical Physics, 2018, 19, 125-133.	1.9	20
7	Voxel size and gray level normalization of CT radiomic features in lung cancer. Scientific Reports, 2018, 8, 10545.	3.3	150
8	A hybrid volumetric dose verification method for single-isocenter multiple-target cranial SRS. Journal of Applied Clinical Medical Physics, 2018, 19, 651-658.	1.9	12
9	Radiomic features analysis in computed tomography images of lung nodule classification. PLoS ONE, 2018, 13, e0192002.	2.5	118
10	Validation of a GPU-Based 3D dose calculator for modulated beams. Journal of Applied Clinical Medical Physics, 2017, 18, 73-82.	1.9	12
11	A method for <i>a priori</i> estimation of best feasible DVH for organs at risk: Validation for head and neck VMAT planning. Medical Physics, 2017, 44, 5486-5497.	3.0	48
12	Sensitivity of Image Features to Noise in Conventional and Respiratory-Gated PET/CT Images of Lung Cancer: Uncorrelated Noise Effects. Technology in Cancer Research and Treatment, 2017, 16, 595-608.	1.9	21
13	Fiducial markers coupled with 3D PET/CT offer more accurate radiation treatment delivery for locally advanced esophageal cancer. Endoscopy International Open, 2017, 05, E496-E504.	1.8	5
14	Ventilation Series Similarity: A Study for Ventilation Calculation Using Deformable Image Registration and 4DCT to Avoid Motion Artifacts. Contrast Media and Molecular Imaging, 2017, 2017, 1-7.	0.8	1
15	Kinetic Curve Type Assessment for Classification of Breast Lesions Using Dynamic Contrast-Enhanced MR Imaging. PLoS ONE, 2016, 11, e0152827.	2.5	11
16	Fiducial markers vs. PET/CT for esophageal cancer GTV delineation for radiotherapy treatment planning using a standard SUV threshold and background uptake method.. Journal of Clinical Oncology, 2016, 34, 70-70.	1.6	1
17	Left ventricular ejection fraction estimation using mutual information on technetium-99m multiple-gated SPECT scans. BioMedical Engineering OnLine, 2015, 14, 119.	2.7	5
18	Technical Note: Motion perturbation method applied to dosimetry of dynamic MLC target tracking: A proof of concept. Medical Physics, 2015, 42, 6147-6151.	3.0	2

#	ARTICLE	IF	CITATIONS
19	Fractionated changes in prostate cancer radiotherapy using cone-beam computed tomography. <i>Medical Dosimetry</i> , 2015, 40, 222-225.	0.9	18
20	Methods, software and datasets to verify DVH calculations against analytical values: Twenty years late(r). <i>Medical Physics</i> , 2015, 42, 4435-4448.	3.0	20
21	Motion Freeze for Respiration Motion Correction in PET/CT: A Preliminary Investigation with Lung Cancer Patient Data. <i>BioMed Research International</i> , 2014, 2014, 1-7.	1.9	21
22	Motion as perturbation. II. Development of the method for dosimetric analysis of motion effects with fixed-gantry IMRT. <i>Medical Physics</i> , 2014, 41, 061704.	3.0	2
23	Cross-validation of two commercial methods for volumetric high-resolution dose reconstruction on a phantom for non-coplanar VMAT beams. <i>Radiotherapy and Oncology</i> , 2014, 110, 558-561.	0.6	17
24	Motion-weighted target volume and dose-volume histogram: A practical approximation of four-dimensional planning and evaluation. <i>Radiotherapy and Oncology</i> , 2011, 99, 67-72.	0.6	7
25	Re-Planning for Compensator-Based IMRT with Original Compensators. <i>Medical Dosimetry</i> , 2011, 36, 102-108.	0.9	5
26	Comments on "Ventilation from four-dimensional computed tomography: density versus Jacobian methods". <i>Physics in Medicine and Biology</i> , 2011, 56, 3445-3446.	3.0	9
27	Attenuation correction of PET images with interpolated average CT for thoracic tumors. <i>Physics in Medicine and Biology</i> , 2011, 56, 2559-2567.	3.0	21
28	Generation of Composite Dose and Biological Effective Dose (BED) Over Multiple Treatment Modalities and Multistage Planning Using Deformable Image Registration. <i>Medical Dosimetry</i> , 2010, 35, 143-150.	0.9	20
29	Use of three-dimensional (3D) optical flow method in mapping 3D anatomic structure and tumor contours across four-dimensional computed tomography data. <i>Journal of Applied Clinical Medical Physics</i> , 2008, 9, 59-69.	1.9	34
30	Elastic image mapping for 4-D dose estimation in thoracic radiotherapy. <i>Radiation Protection Dosimetry</i> , 2005, 115, 497-502.	0.8	34
31	Intrathoracic tumour motion estimation from CT imaging using the 3D optical flow method. <i>Physics in Medicine and Biology</i> , 2004, 49, 4147-4161.	3.0	123