Geoffrey Zhang

List of Publications by Year
in descending order

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	Voxel size and gray level normalization of CT radiomic features in lung cancer. Scientific Reports, 2018, 8, 10545.	3.3	150
2	Intrathoracic tumour motion estimation from CT imaging using the 3D optical flow method. Physics in Medicine and Biology, 2004, 49, 4147-4161.	3.0	123
3	Detection and classification the breast tumors using mask R-CNN on sonograms. Medicine (United) Tj ETQq1 1 0.784314 rgBT /Overl	1.0	119
4	Radiomic features analysis in computed tomography images of lung nodule classification. PLoS ONE, 2018, 13, e0192002.	2.5	118
5	A method for a priori estimation of best feasible <scp>DVH</scp> for organsâ€atâ€risk: Validation for head and neck <scp>VMAT</scp> planning. Medical Physics, 2017, 44, 5486-5497.	3.0	48
6	Comprehensive evaluation of the highâ€resolution diode array for SRS dosimetry. Journal of Applied Clinical Medical Physics, 2019, 20, 13-23.	1.9	35
7	Elastic image mapping for 4-D dose estimation in thoracic radiotherapy. Radiation Protection Dosimetry, 2005, 115, 497-502.	0.8	34
8	Use of threeâ€dimensional (3D) optical flow method in mapping 3D anatomic structure and tumor contours across fourâ€dimensional computed tomography data. Journal of Applied Clinical Medical Physics, 2008, 9, 59-69.	1.9	34
9	Attenuation correction of PET images with interpolated average CT for thoracic tumors. Physics in Medicine and Biology, 2011, 56, 2559-2567.	3.0	21
10	Motion Freeze for Respiration Motion Correction in PET/CT: A Preliminary Investigation with Lung Cancer Patient Data. BioMed Research International, 2014, 2014, 1-7.	1.9	21
11	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
12	Generation of Composite Dose and Biological Effective Dose (BED) Over Multiple Treatment Modalities and Multistage Planning Using Deformable Image Registration. Medical Dosimetry, 2010, 35, 143-150.	0.9	20
13	Methods, software and datasets to verify DVH calculations against analytical values: Twenty years late(r). Medical Physics, 2015, 42, 4435-4448.	3.0	20
14	Practical quantification of image registration accuracy following the <scp>AAPM TG</scp>â€132 report framework. Journal of Applied Clinical Medical Physics, 2018, 19, 125-133.	1.9	20
15	Fractionated changes in prostate cancer radiotherapy using cone-beam computed tomography. Medical Dosimetry, 2015, 40, 222-225.	0.9	18
16	Radiomics features analysis of PET images in oropharyngeal and hypopharyngeal cancer. Medicine (United States), 2019, 98, e15446.	1.0	18
17	Cross-validation of two commercial methods for volumetric high-resolution dose reconstruction on a phantom for non-coplanar VMAT beams. Radiotherapy and Oncology, 2014, 110, 558-561.	0.6	17
18	Validation of a <scp>GPU</scp>â€Based 3D dose calculator for modulated beams. Journal of Applied Clinical Medical Physics, 2017, 18, 73-82.	1.9	12

#	Article	IF	Citations
19	A hybrid volumetric dose verification method for singleâ€isocenter multipleâ€target cranial SRS. Journal of Applied Clinical Medical Physics, 2018, 19, 651-658.	1.9	12
20	Kinetic Curve Type Assessment for Classification of Breast Lesions Using Dynamic Contrast-Enhanced MR Imaging. PLoS ONE, 2016, 11, e0152827.	2.5	11
21	Comments on â€˜Ventilation from four-dimensional computed tomography: density versus Jacobian methodsâ€™. Physics in Medicine and Biology, 2011, 56, 3445-3446.	3.0	9
22	Motion-weighted target volume and dose-volume histogram: A practical approximation of four-dimensional planning and evaluation. Radiotherapy and Oncology, 2011, 99, 67-72.	0.6	7
23	Re-Planning for Compensator-Based IMRT with Original Compensators. Medical Dosimetry, 2011, 36, 102-108.	0.9	5
24	Left ventricular ejection fraction estimation using mutual information on technetium-99m multiple-gated SPECT scans. BioMedical Engineering OnLine, 2015, 14, 119.	2.7	5
25	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
26	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
27	Motion as perturbation. II. Development of the method for dosimetric analysis of motion effects with fixed-gantry IMRT. Medical Physics, 2014, 41, 061704.	3.0	2
28	Technical Note: Motionâ€perturbation method applied to dosimetry of dynamic MLC target trackingâ€”A proofâ€ofâ€concept. Medical Physics, 2015, 42, 6147-6151.	3.0	2
29	Planning Lung Radiotherapy Incorporating Motion Freeze PET/CT Imaging. Applied Sciences (Switzerland), 2018, 8, 1583.	2.5	2
30	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
31	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