

Tianyu Zhao

List of Publications by Year in descending order

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34
papers

888
citations

566801

15
h-index

476904

29
g-index

34
all docs

34
docs citations

34
times ranked

1116
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of Ultra-High Dose-Rate (FLASH) Particle Therapy. IEEE Transactions on Radiation and Plasma Medical Sciences, 2022, 6, 252-262.	2.7	17
2	Improvement of IMRT QA prediction using imagingâ€based neural architecture search. Medical Physics, 2022, 49, 5236-5243.	1.6	7
3	ARPMâ€net: A novel CNNâ€based adversarial method with Markov random field enhancement for prostate and organs at risk segmentation in pelvic CT images. Medical Physics, 2021, 48, 227-237.	1.6	18
4	Impact of bowtie filter and detector collimation on multislice CT scatter profiles: A simulation study. Medical Physics, 2021, 48, 852-870.	1.6	5
5	Radiation oncology physics coverage during the COVIDâ€19 pandemic: Successes and lessons learned. Journal of Applied Clinical Medical Physics, 2021, 22, 4-7.	0.8	5
6	Technical Note: An alternative approach to verify 6FFF beam dosimetry for Ethos and MR Linac without using a 3D water tank. Medical Physics, 2021, 48, 1533-1539.	1.6	7
7	Dosimetric impact of range uncertainty in passive scattering proton therapy. Journal of Applied Clinical Medical Physics, 2021, 22, 6-14.	0.8	0
8	Spreadâ€out Bragg peak proton FLASH irradiation using a clinical synchrocyclotron: Proof of concept and ion chamber characterization. Medical Physics, 2021, 48, 4472-4484.	1.6	36
9	Semi-supervised semantic segmentation of prostate and organs-at-risk on 3D pelvic CT images. Biomedical Physics and Engineering Express, 2021, 7, 065023.	0.6	5
10	Weaving attention Uâ€net: A novel hybrid CNN and attentionâ€based method for organsâ€atâ€risk segmentation in head and neck CT images. Medical Physics, 2021, 48, 7052-7062.	1.6	15
11	Quantification of gold nanoparticle photon radiosensitization from direct and indirect effects using a complete human genome single cell model based on Geant4. Medical Physics, 2021, , .	1.6	2
12	Feasibility of proton FLASH irradiation using a synchrocyclotron for preclinical studies. Medical Physics, 2020, 47, 4348-4355.	1.6	65
13	A Monte Carloâ€based analytic model of neutron dose equivalent for a mevion gantryâ€mounted passively scattered proton system for craniospinal irradiation. Medical Physics, 2020, 47, 4509-4521.	1.6	6
14	Spectroscopic analysis of irradiated radiochromic EBT-XD films in proton and photon beams. Physics in Medicine and Biology, 2020, 65, 205002.	1.6	8
15	Sensitivity analysis of Monte Carlo model of a gantryâ€mounted passively scattered proton system. Journal of Applied Clinical Medical Physics, 2020, 21, 26-37.	0.8	4
16	A Monte Carlo based analytic model of the in-room neutron ambient dose equivalent for a Mevion gantry-mounted passively scattered proton system. Journal of Radiological Protection, 2020, 40, 980-996.	0.6	3
17	Modeling double-strand breaks from direct and indirect action in a complete human genome single cell Geant4 model. Biomedical Physics and Engineering Express, 2020, 6, 065010.	0.6	4
18	Predicting gamma passing rates for portal dosimetryâ€based IMRT QA using machine learning. Medical Physics, 2019, 46, 4666-4675.	1.6	69

#	ARTICLE	IF	CITATIONS
19	Development of computational model for cell dose and DNA damage quantification of multicellular system. <i>International Journal of Radiation Biology</i> , 2019, 95, 1484-1497.	1.0	7
20	On the spectral characterization of radiochromic films irradiated with clinical proton beams. <i>Physics in Medicine and Biology</i> , 2019, 64, 135016.	1.6	17
21	Modeling gold nanoparticle radiosensitization using a clustering algorithm to quantitate DNA double-strand breaks with mixed-physics Monte Carlo simulation. <i>Medical Physics</i> , 2019, 46, 5314-5325.	1.6	15
22	²¹⁰ Po concentration in desulfurized waste water of coal-fired power plant. <i>Journal of Radiation Research and Applied Sciences</i> , 2019, 12, 240-244.	0.7	1
23	Experimental implementation of a joint statistical image reconstruction method for proton stopping power mapping from dual-energy CT data. <i>Medical Physics</i> , 2019, 46, 273-285.	1.6	15
24	A machine learning approach to the accurate prediction of monitor units for a compact proton machine. <i>Medical Physics</i> , 2018, 45, 2243-2251.	1.6	27
25	Toward adaptive proton therapy guided with a mobile helical CT scanner. <i>Radiotherapy and Oncology</i> , 2018, 129, 479-485.	0.3	11
26	Mapping radiation distribution on ground based on the measurement using an unmanned aerial vehicle. <i>Journal of Environmental Radioactivity</i> , 2018, 193-194, 44-56.	0.9	14
27	Two-stage ionoacoustic range verification leveraging Monte Carlo and acoustic simulations to stably account for tissue inhomogeneity and accelerator-specific time structure – A simulation study. <i>Medical Physics</i> , 2018, 45, 783-793.	1.6	19
28	The world's first single-room proton therapy facility: Two-year experience. <i>Practical Radiation Oncology</i> , 2017, 7, e71-e76.	1.1	21
29	Simulated Online Adaptive Magnetic Resonance-Guided Stereotactic Body Radiation Therapy for the Treatment of Oligometastatic Disease of the Abdomen and Central Thorax: Characterization of Potential Advantages. <i>International Journal of Radiation Oncology Biology Physics</i> , 2016, 96, 1078-1086.	0.4	113
30	Commissioning and initial experience with the first clinical gantry-mounted proton therapy system. <i>Journal of Applied Clinical Medical Physics</i> , 2016, 17, 24-40.	0.8	28
31	A GPU-accelerated Monte Carlo dose calculation platform and its application toward validating an MRI-guided radiation therapy beam model. <i>Medical Physics</i> , 2016, 43, 4040-4052.	1.6	46
32	Online Magnetic Resonance Image Guided Adaptive Radiation Therapy: First Clinical Applications. <i>International Journal of Radiation Oncology Biology Physics</i> , 2016, 94, 394-403.	0.4	245
33	Use of diverging apertures to minimize the edge scatter in passive scattering proton therapy. <i>Journal of Applied Clinical Medical Physics</i> , 2015, 16, 367-372.	0.8	6
34	Characterization of free breathing patterns with 5D lung motion model. <i>Medical Physics</i> , 2009, 36, 5183-5189.	1.6	27