

Tianyu Zhao

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5030433/publications.pdf>

Version: 2024-02-01

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 | Online Magnetic Resonance Image Guided Adaptive Radiation Therapy: First Clinical Applications. International Journal of Radiation Oncology Biology Physics, 2016, 94, 394-403. | 0.4 | 245 |
| 2 | Simulated Online Adaptive Magnetic Resonanceâ€“Guided Stereotactic Body Radiation Therapy for the Treatment of Oligometastatic Disease of the Abdomen and Central Thorax: Characterization of Potential Advantages. International Journal of Radiation Oncology Biology Physics, 2016, 96, 1078-1086. | 0.4 | 113 |
| 3 | Predicting gamma passing rates for portal dosimetryâ€“based IMRT QA using machine learning. Medical Physics, 2019, 46, 4666-4675. | 1.6 | 69 |
| 4 | Feasibility of proton FLASH irradiation using a synchrocyclotron for preclinical studies. Medical Physics, 2020, 47, 4348-4355. | 1.6 | 65 |
| 5 | A GPUâ€“accelerated Monte Carlo dose calculation platform and its application toward validating an MRIâ€“guided radiation therapy beam model. Medical Physics, 2016, 43, 4040-4052. | 1.6 | 46 |
| 6 | 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 |
| 7 | Commissioning and initial experience with the first clinical gantryâ€“mounted proton therapy system. Journal of Applied Clinical Medical Physics, 2016, 17, 24-40. | 0.8 | 28 |
| 8 | Characterization of free breathing patterns with 5D lung motion model. Medical Physics, 2009, 36, 5183-5189. | 1.6 | 27 |
| 9 | A machine learning approach to the accurate prediction of monitor units for a compact proton machine. Medical Physics, 2018, 45, 2243-2251. | 1.6 | 27 |
| 10 | The worldâ€™s first single-room proton therapy facility: Two-year experience. Practical Radiation Oncology, 2017, 7, e71-e76. | 1.1 | 21 |
| 11 | Twoâ€“stage ionoacoustic range verification leveraging Monte Carlo and acoustic simulations to stably account for tissue inhomogeneity and acceleratorâ€“specific time structure â€“ A simulation study. Medical Physics, 2018, 45, 783-793. | 1.6 | 19 |
| 12 | 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 |
| 13 | On the spectral characterization of radiochromic films irradiated with clinical proton beams. Physics in Medicine and Biology, 2019, 64, 135016. | 1.6 | 17 |
| 14 | Development of Ultra-High Dose-Rate (FLASH) Particle Therapy. IEEE Transactions on Radiation and Plasma Medical Sciences, 2022, 6, 252-262. | 2.7 | 17 |
| 15 | Modeling gold nanoparticle radiosensitization using a clustering algorithm to quantitate DNA doubleâ€“strand breaks with mixedâ€“physics Monte Carlo simulation. Medical Physics, 2019, 46, 5314-5325. | 1.6 | 15 |
| 16 | Experimental implementation of a joint statistical image reconstruction method for proton stopping power mapping from dualâ€“energy CT data. Medical Physics, 2019, 46, 273-285. | 1.6 | 15 |
| 17 | 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 |
| 18 | Mapping radiation distribution on ground based on the measurement using an unmanned aerial vehicle. Journal of Environmental Radioactivity, 2018, 193-194, 44-56. | 0.9 | 14 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Toward adaptive proton therapy guided with a mobile helical CT scanner. <i>Radiotherapy and Oncology</i> , 2018, 129, 479-485. | 0.3 | 11 |
| 20 | Spectroscopic analysis of irradiated radiochromic EBT-XD films in proton and photon beams. <i>Physics in Medicine and Biology</i> , 2020, 65, 205002. | 1.6 | 8 |
| 21 | 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 |
| 22 | Technical Note: An alternative approach to verify 6FFF beam dosimetry for Ethos and MR Linac without using a 3D water tank. <i>Medical Physics</i> , 2021, 48, 1533-1539. | 1.6 | 7 |
| 23 | Improvement of IMRT QA prediction using imaging-based neural architecture search. <i>Medical Physics</i> , 2022, 49, 5236-5243. | 1.6 | 7 |
| 24 | 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 |
| 25 | A Monte Carlo-based analytic model of neutron dose equivalent for a meVion gantry-mounted passively scattered proton system for craniospinal irradiation. <i>Medical Physics</i> , 2020, 47, 4509-4521. | 1.6 | 6 |
| 26 | Impact of bowtie filter and detector collimation on multislice CT scatter profiles: A simulation study. <i>Medical Physics</i> , 2021, 48, 852-870. | 1.6 | 5 |
| 27 | Radiation oncology physics coverage during the COVID-19 pandemic: Successes and lessons learned. <i>Journal of Applied Clinical Medical Physics</i> , 2021, 22, 4-7. | 0.8 | 5 |
| 28 | Semi-supervised semantic segmentation of prostate and organs-at-risk on 3D pelvic CT images. <i>Biomedical Physics and Engineering Express</i> , 2021, 7, 065023. | 0.6 | 5 |
| 29 | Sensitivity analysis of Monte Carlo model of a gantry-mounted passively scattered proton system. <i>Journal of Applied Clinical Medical Physics</i> , 2020, 21, 26-37. | 0.8 | 4 |
| 30 | Modeling double-strand breaks from direct and indirect action in a complete human genome single cell Geant4 model. <i>Biomedical Physics and Engineering Express</i> , 2020, 6, 065010. | 0.6 | 4 |
| 31 | A Monte Carlo based analytic model of the in-room neutron ambient dose equivalent for a MeVion gantry-mounted passively scattered proton system. <i>Journal of Radiological Protection</i> , 2020, 40, 980-996. | 0.6 | 3 |
| 32 | Quantification of gold nanoparticle photon radiosensitization from direct and indirect effects using a complete human genome single cell model based on Geant4. <i>Medical Physics</i> , 2021, , . | 1.6 | 2 |
| 33 | 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 |
| 34 | Dosimetric impact of range uncertainty in passive scattering proton therapy. <i>Journal of Applied Clinical Medical Physics</i> , 2021, 22, 6-14. | 0.8 | 0 |