

Baozhou Sun

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

525
citations

758635

12
h-index

676716

22
g-index

38
all docs

38
docs citations

38
times ranked

628
citing authors

#	ARTICLE	IF	CITATIONS
1	Predicting gamma passing rates for portal dosimetry-based IMRT QA using machine learning. Medical Physics, 2019, 46, 4666-4675.	1.6	69
2	Feasibility of proton FLASH irradiation using a synchrotron for preclinical studies. Medical Physics, 2020, 47, 4348-4355.	1.6	65
3	Cervical Gross Tumor Volume Dose Predicts Local Control Using Magnetic Resonance Imaging/Diffusion-Weighted Imaging-Guided High-Dose-Rate and Positron Emission Tomography/Computed Tomography-Guided Intensity Modulated Radiation Therapy. International Journal of Radiation Oncology Biology Physics, 2014, 90, 794-801.	0.4	52
4	Daily QA of linear accelerators using only EPID and OBI. Medical Physics, 2015, 42, 5584-5594.	1.6	45
5	Initial experience with TrueBeam trajectory log files for radiation therapy delivery verification. Practical Radiation Oncology, 2013, 3, e199-e208.	1.1	34
6	Commissioning and initial experience with the first clinical gantry-mounted proton therapy system. Journal of Applied Clinical Medical Physics, 2016, 17, 24-40.	0.8	28
7	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
8	The world's first single-room proton therapy facility: Two-year experience. Practical Radiation Oncology, 2017, 7, e71-e76.	1.1	21
9	ARPM-net: A novel CNN-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
10	Rapid acceptance testing of modern linac using on-board MV and kV imaging systems. Medical Physics, 2017, 44, 3393-3406.	1.6	17
11	Weaving attention U-net: A novel hybrid CNN and attention-based method for organs-at-risk segmentation in head and neck CT images. Medical Physics, 2021, 48, 7052-7062.	1.6	15
12	Clinical implementation of multisequence MRI-based adaptive intracavitary brachytherapy for cervix cancer. Journal of Applied Clinical Medical Physics, 2016, 17, 121-131.	0.8	14
13	Target tracking using DMLC for volumetric modulated arc therapy: A simulation study. Medical Physics, 2010, 37, 6116-6124.	1.6	12
14	Normalize the response of EPID in pursuit of linear accelerator dosimetry standardization. Journal of Applied Clinical Medical Physics, 2018, 19, 73-85.	0.8	11
15	Toward adaptive proton therapy guided with a mobile helical CT scanner. Radiotherapy and Oncology, 2018, 129, 479-485.	0.3	11
16	Band offsets at CdCr ₂ Se ₄ -(AlGa)As and CdCr ₂ Se ₄ -ZnSe interfaces. Applied Physics Letters, 2003, 82, 1422-1424.	1.5	9
17	Three-dimensional dose accumulation in pseudo-split-field IMRT and brachytherapy for locally advanced cervical cancer. Brachytherapy, 2015, 14, 481-489.	0.2	9
18	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

#	ARTICLE	IF	CITATIONS
19	Improvement of IMRT QA prediction using imaging-based neural architecture search. <i>Medical Physics</i> , 2022, 49, 5236-5243.	1.6	7
20	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
21	The more IGRT systems, the merrier?. <i>Journal of Applied Clinical Medical Physics</i> , 2017, 18, 7-11.	0.8	6
22	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
23	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
24	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
25	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
26	Application programming interface guided QA plan generation and analysis automation. <i>Journal of Applied Clinical Medical Physics</i> , 2021, 22, 26-34.	0.8	4
27	A method to reconstruct and apply 3D primary fluence for treatment delivery verification. <i>Journal of Applied Clinical Medical Physics</i> , 2017, 18, 128-138.	0.8	4
28	A novel design of proton computed tomography detected by multiple-layer ionization chamber with strip chambers: A feasibility study with Monte Carlo simulation. <i>Medical Physics</i> , 2020, 47, 614-625.	1.6	3
29	Long-term Inter-protocol kV CBCT image quality assessment for a ring-gantry linac via automated QA approach. <i>Biomedical Physics and Engineering Express</i> , 2020, 6, 015025.	0.6	3
30	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
31	Determination of the electronic portal imaging device pixel-sensitivity-map for quality assurance applications. Part 1: Comparison of methods. <i>Journal of Applied Clinical Medical Physics</i> , 2022, , e13603.	0.8	2
32	Proton Therapy Reirradiation for Thoracic Recurrences: Toxicity and Outcomes. <i>International Journal of Radiation Oncology Biology Physics</i> , 2017, 99, E448.	0.4	1
33	Clinical Workflow for Planning and Treating Palliative Patients on Diagnostic Images. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021, 111, e496.	0.4	1
34	Determination of the electronic portal imaging device pixel-sensitivity-map for quality assurance applications. Part 2: Photon beam dependence. <i>Journal of Applied Clinical Medical Physics</i> , 2022, , e13602.	0.8	1
35	Technical Note: A feasibility study of using the flat panel detector on linac for the kV x-ray generator test. <i>Medical Physics</i> , 2018, 45, 3305-3314.	1.6	0
36	Three year experience of electronic portal imaging device based daily QA for photon radiation beams. <i>Biomedical Physics and Engineering Express</i> , 2018, 5, 015005.	0.6	0

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37	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
38	Dosimetric Verification of Simulation-Free Palliative Radiotherapy: A Retrospective Study on Delivered Dose Reconstructed on CBCT Setup Images. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021, 111, e491.	0.4	0