

Bin Cai

List of Publications by Year in descending order

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29
papers

521
citations

758635

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29
all docs

29
docs citations

29
times ranked

521
citing authors

#	ARTICLE	IF	CITATIONS
1	First clinical implementation of real-time, real anatomy tracking and radiation beam control. Medical Physics, 2018, 45, 3728-3740.	1.6	115
2	Characterization of a prototype rapid kilovoltage x-ray image guidance system designed for a ring shape radiation therapy unit. Medical Physics, 2019, 46, 1355-1370.	1.6	64
3	Daily QA of linear accelerators using only EPID and OBI. Medical Physics, 2015, 42, 5584-5594.	1.6	45
4	Optimization of treatment planning workflow and tumor coverage during daily adaptive magnetic resonance image guided radiation therapy (MR-IGRT) of pancreatic cancer. Radiation Oncology, 2018, 13, 51.	1.2	30
5	Implementation of the structural SIMilarity (SSIM) index as a quantitative evaluation tool for dose distribution error detection. Medical Physics, 2020, 47, 1907-1919.	1.6	30
6	A practical implementation of physics quality assurance for photon adaptive radiotherapy. Zeitschrift Fur Medizinische Physik, 2018, 28, 211-223.	0.6	29
7	Comprehensive validation of halcyon 2.0 plans and the implementation of patient specific QA with multiple detector platforms. Journal of Applied Clinical Medical Physics, 2020, 21, 39-48.	0.8	27
8	FMEA of manual and automated methods for commissioning a radiotherapy treatment planning system. Medical Physics, 2017, 44, 4415-4425.	1.6	20
9	Performance of a multi leaf collimator system for MR-guided radiation therapy. Medical Physics, 2017, 44, 6504-6514.	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	Three-Dimensional Dosimetric Validation of a Magnetic Resonance Guided Intensity Modulated Radiation Therapy System. International Journal of Radiation Oncology Biology Physics, 2017, 97, 1095-1104.	0.4	17
12	Direct tumor visual feedback during free breathing in 0.35T MRgRT. Journal of Applied Clinical Medical Physics, 2020, 21, 241-247.	0.8	14
13	Intracranial Stereotactic Radiation Therapy With a Jawless Ring Gantry Linear Accelerator Equipped With New Dual Layer Multileaf Collimator. Advances in Radiation Oncology, 2020, 5, 482-489.	0.6	13
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	Standardization and automation of quality assurance for high-dose-rate brachytherapy planning with application programming interface. Brachytherapy, 2019, 18, 108-114.e1.	0.2	10
16	Field-in-field breast planning for a jawless, double-stack MLC LINAC using flattening-filter-free beams. Journal of Applied Clinical Medical Physics, 2019, 20, 14-26.	0.8	9
17	Visually guided respiratory motion management for Ethos adaptive radiotherapy. Journal of Applied Clinical Medical Physics, 2022, 23, .	0.8	9
18	Technical Note: Dosimetric characterization of the dynamic beam flattening MLC sequence on a ring shaped, Jawless Linear Accelerator with double stacked MLC. Medical Physics, 2020, 47, 948-957.	1.6	7

#	ARTICLE	IF	CITATIONS
19	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
20	Risk assessment of a new acceptance testing procedure for conventional linear accelerators. <i>Medical Physics</i> , 2017, 44, 5610-5616.	1.6	5
21	MRI safety risks in the obese: The case of the disposable lighter stored in the pannus. <i>Radiology Case Reports</i> , 2019, 14, 634-638.	0.2	5
22	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
23	Beam energy metrics for the acceptance and quality assurance of Halcyon linear accelerator. <i>Journal of Applied Clinical Medical Physics</i> , 2021, 22, 121-127.	0.8	4
24	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
25	Technical Note: Self-shielding evaluation and radiation leakage measurement of a jawless ring gantry linac with a beam stopper. <i>Medical Physics</i> , 2021, 48, 3143-3150.	1.6	3
26	Process improvement for the safe delivery of multidisciplinary-executed treatments—A case in Y-90 microspheres therapy. <i>Brachytherapy</i> , 2017, 16, 236-244.	0.2	2
27	Automated and robust beam data validation of a preconfigured ring gantry linear accelerator using a 1D tank with synchronized beam delivery and couch motions. <i>Journal of Applied Clinical Medical Physics</i> , 2020, 21, 200-207.	0.8	2
28	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
29	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