

Yi Rong

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

1,130
citations

430754

18
h-index

477173

29
g-index

82
all docs

82
docs citations

82
times ranked

1432
citing authors

#	ARTICLE	IF	CITATIONS
1	Adaptive Radiation Therapy (ART) Strategies and Technical Considerations: A State of the ART Review From NRG Oncology. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021, 109, 1054-1075.	0.4	109
2	Radiomics for Response and Outcome Assessment for Non-Small Cell Lung Cancer. <i>Technology in Cancer Research and Treatment</i> , 2018, 17, 153303381878278.	0.8	71
3	3D-printed breast phantom for multi-purpose and multi-modality imaging. <i>Quantitative Imaging in Medicine and Surgery</i> , 2019, 9, 63-74.	1.1	58
4	Deep learning vs. atlas-based models for fast auto-segmentation of the masticatory muscles on head and neck CT images. <i>Radiation Oncology</i> , 2020, 15, 176.	1.2	44
5	Convolutional neural network enhancement of fast-scan low-dose cone-beam CT images for head and neck radiotherapy. <i>Physics in Medicine and Biology</i> , 2020, 65, 035003.	1.6	42
6	Design and fabrication of a personalized anthropomorphic phantom using 3D printing and tissue equivalent materials. <i>Quantitative Imaging in Medicine and Surgery</i> , 2019, 9, 94-100.	1.1	40
7	Cone-beam computed tomography-based delta-radiomics for early response assessment in radiotherapy for locally advanced lung cancer. <i>Physics in Medicine and Biology</i> , 2020, 65, 015009.	1.6	37
8	Integrating tumor and nodal radiomics to predict lymph node metastasis in gastric cancer. <i>Radiotherapy and Oncology</i> , 2020, 150, 89-96.	0.3	35
9	Radiotherapy treatment for nonmelanoma skin cancer. <i>Expert Review of Anticancer Therapy</i> , 2015, 15, 765-776.	1.1	34
10	Surface applicator calibration and commissioning of an electronic brachytherapy system for	1.6	33
11	The effect and stability of MVCT images on adaptive TomoTherapy. <i>Journal of Applied Clinical Medical Physics</i> , 2010, 11, 4-14.	0.8	32
12	Artificial intelligence will reduce the need for clinical medical physicists. <i>Journal of Applied Clinical Medical Physics</i> , 2018, 19, 6-9.	0.8	32
13	Robust optimization in lung treatment plans accounting for geometric uncertainty. <i>Journal of Applied Clinical Medical Physics</i> , 2018, 19, 19-26.	0.8	30
14	Rigid and Deformable Image Registration for Radiation Therapy: A Self-Study Evaluation Guide for NRG Oncology Clinical Trial Participation. <i>Practical Radiation Oncology</i> , 2021, 11, 282-298.	1.1	26
15	Dosimetric Considerations in Respiratory-Gated Deep Inspiration Breath-Hold for Left Breast Irradiation. <i>Technology in Cancer Research and Treatment</i> , 2017, 16, 22-32.	0.8	25
16	Prognostic factors and patterns of recurrence after curative resection for patients with distal cholangiocarcinoma. <i>Radiotherapy and Oncology</i> , 2020, 147, 111-117.	0.3	24
17	3D printing technology will eventually eliminate the need of purchasing commercial phantoms for clinical medical physics <scp>QA</scp> procedures. <i>Journal of Applied Clinical Medical Physics</i> , 2018, 19, 8-12.	0.8	22
18	Surface brachytherapy: Joint report of the AAPM and the GEC&EESTRO Task Group No. 253. <i>Medical Physics</i> , 2020, 47, e951-e987.	1.6	22

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19	Dosimetric and clinical review of helical tomotherapy. <i>Expert Review of Anticancer Therapy</i> , 2011, 11, 309-320.	1.1	19
20	Technical Report: TGâ€142 compliant and comprehensive quality assurance tests for respiratory gating. <i>Medical Physics</i> , 2015, 42, 6488-6497.	1.6	18
21	Extracting and Selecting Robust Radiomic Features from PET/MR Images in Nasopharyngeal Carcinoma. <i>Molecular Imaging and Biology</i> , 2020, 22, 1581-1591.	1.3	18
22	We are ready for clinical implementation of Carbon Ion Radiotherapy in the United States. <i>Journal of Applied Clinical Medical Physics</i> , 2020, 21, 6-9.	0.8	18
23	Hypofractionated Breast and Chest Wall Irradiation Using Simultaneous in-field Boost IMRT Delivered via Helical Tomotherapy. <i>Technology in Cancer Research and Treatment</i> , 2008, 7, 433-439.	0.8	17
24	Treatment Planning for Pulsed Reduced Dose-Rate Radiotherapy in Helical Tomotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2011, 79, 934-942.	0.4	17
25	â€Dose of the dayâ€ based on cone beam computed tomography and deformable image registration for lung cancer radiotherapy. <i>Journal of Applied Clinical Medical Physics</i> , 2020, 21, 88-94.	0.8	16
26	Characterizing mechanical and medical imaging properties of polyvinyl chlorideâ€based tissueâ€mimicking materials. <i>Journal of Applied Clinical Medical Physics</i> , 2019, 20, 176-183.	0.8	15
27	Acute Toxicity From Breast Cancer Radiation Using Helical Tomotherapy With a Simultaneous Integrated Boost. <i>Technology in Cancer Research and Treatment</i> , 2016, 15, 257-265.	0.8	14
28	Radiation therapy considerations during the COVIDâ€19 Pandemic: Literature review and expert opinions. <i>Journal of Applied Clinical Medical Physics</i> , 2020, 21, 6-12.	0.8	14
29	Basics of Particle Therapy II Biologic and Dosimetric Aspects of Clinical Hadron Therapy. <i>American Journal of Clinical Oncology: Cancer Clinical Trials</i> , 2010, 33, 646-649.	0.6	13
30	Fabrication of an anthropomorphic heterogeneous mouse phantom for multimodality medical imaging. <i>Physics in Medicine and Biology</i> , 2018, 63, 195011.	1.6	13
31	Head and neck synthetic CT generated from ultraâ€lowâ€dose coneâ€beam CT following Image Gently Protocol using deep neural network. <i>Medical Physics</i> , 2022, 49, 3263-3277.	1.6	13
32	Benchmarking of Deformable Image Registration for Multiple Anatomic Sites Using Digital Data Sets With Ground-Truth Deformation Vector Fields. <i>Practical Radiation Oncology</i> , 2021, 11, 404-414.	1.1	12
33	Minimal Inter-Fractional Fiducial Migration during Image-Guided Lung Stereotactic Body Radiotherapy Using SuperLock Nitinol Coil Fiducial Markers. <i>PLoS ONE</i> , 2015, 10, e0131945.	1.1	11
34	Are inâ€house diagnostic MR physicists necessary for clinical implementation of MRI guided radiotherapy?. <i>Journal of Applied Clinical Medical Physics</i> , 2017, 18, 6-9.	0.8	11
35	Clinical practice workflow in Radiation Oncology should be highly standardized. <i>Journal of Applied Clinical Medical Physics</i> , 2019, 20, 6-9.	0.8	9
36	Clinical Enhancement in AI-Based Post-processed Fast-Scan Low-Dose CBCT for Head and Neck Adaptive Radiotherapy. <i>Frontiers in Artificial Intelligence</i> , 2020, 3, 614384.	2.0	9

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37	A planning study for palliative spine treatment using StatRT and megavoltage CT simulation. Journal of Applied Clinical Medical Physics, 2011, 12, 97-107.	0.8	8
38	Medical physicists should meet with patients as part of the initial consult. Journal of Applied Clinical Medical Physics, 2018, 19, 6-9.	0.8	8
39	Current status of Radiomics for cancer management: Challenges versus opportunities for clinical practice. Journal of Applied Clinical Medical Physics, 2020, 21, 7-10.	0.8	8
40	Prediction of neoadjuvant chemotherapy response in high-grade osteosarcoma: added value of non-tumorous bone radiomics using CT images. Quantitative Imaging in Medicine and Surgery, 2021, 11, 1184-1195.	1.1	8
41	Three discipline collaborative radiation therapy (3DCRT) special debate: The United States should build additional proton therapy facilities. Journal of Applied Clinical Medical Physics, 2019, 20, 7-12.	0.8	7
42	Effect and Safety of Radiation Therapy Boost to Extramesorectal Lymph Nodes in Rectal Cancer. Practical Radiation Oncology, 2020, 10, e372-e377.	1.1	7
43	Dose Summation Strategies for External Beam Radiation Therapy and Brachytherapy in Gynecologic Malignancy: A Review from the NRG Oncology and NCTN Medical Physics Subcommittees. International Journal of Radiation Oncology Biology Physics, 2021, 111, 999-1010.	0.4	7
44	Inter-Fraction Tumor Volume Response during Lung Stereotactic Body Radiation Therapy Correlated to Patient Variables. PLoS ONE, 2016, 11, e0153245.	1.1	7
45	The more <sc>IGRT</sc> systems, the merrier?. Journal of Applied Clinical Medical Physics, 2017, 18, 7-11.	0.8	6
46	Voices for gender equity in medical physics. Journal of Applied Clinical Medical Physics, 2018, 19, 6-10.	0.8	6
47	MRâ€inac is the best modality for lung SBRT. Journal of Applied Clinical Medical Physics, 2019, 20, 7-11.	0.8	6
48	Evaluating Automatic Segmentation for Swallowing-Related Organs for Head and Neck Cancer. Technology in Cancer Research and Treatment, 2022, 21, 153303382211057.	0.8	6
49	<sc>MBA</sc> degree is needed for leadership roles in Medical Physics profession. Journal of Applied Clinical Medical Physics, 2017, 18, 6-9.	0.8	5
50	MRI in breast cancer radiotherapy in prone and supine positions. Frontiers in Bioscience - Landmark, 2017, 22, 570-579.	3.0	5
51	Factors associated with deformation accuracy and modes of failure for MRI-optimized cervical brachytherapy using deformable image registration. Brachytherapy, 2019, 18, 378-386.	0.2	5
52	Clinical feasibility of MR-assisted CT-based cervical brachytherapy using MR-to-CT deformable image registration. Brachytherapy, 2020, 19, 447-456.	0.2	5
53	Technical note: Atlasâ€based Autoâ€segmentation of masticatory muscles for head and neck cancer radiotherapy. Journal of Applied Clinical Medical Physics, 2020, 21, 233-240.	0.8	5
54	Technical Note: Vendor miscalibration of preclinical orthovoltage irradiator identified through independent output check. Medical Physics, 2021, 48, 881-889.	1.6	4

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55	Constructing Customized Multimodal Phantoms Through 3D Printing: A Preliminary Evaluation. <i>Frontiers in Physics</i> , 2021, 9, .	1.0	4
56	Future mainstream platform for online adaptive radiotherapy will be using onâ€board MR rather than onâ€board (CB) CT images. <i>Journal of Applied Clinical Medical Physics</i> , 2021, 22, 4-9.	0.8	4
57	Treating Cutaneous T-Cell Lymphoma with Highly Irregular Surfaces with Photon Irradiation Using Rice as Tissue Compensator. <i>Frontiers in Oncology</i> , 2015, 5, 49.	1.3	3
58	<scp>CAMPEP</scp> graduate program standards should require a dedicated course in Magnetic Resonance Imaging physics. <i>Journal of Applied Clinical Medical Physics</i> , 2018, 19, 5-8.	0.8	3
59	Generalized methodology for radiomic feature selection and modelling in predicting clinical outcomes. <i>Physics in Medicine and Biology</i> , 2021, 66, .	1.6	3
60	Proton therapy needs further technological development to fulfill the promise of becoming a superior treatment modality (compared to photon therapy). <i>Journal of Applied Clinical Medical Physics</i> , 2021, 22, 4-11.	0.8	3
61	A standardized checklist is optimal for patients' chart check. <i>Journal of Applied Clinical Medical Physics</i> , 2017, 18, 5-8.	0.8	3
62	Comprehensive Commissioning and Clinical Implementation of GammaTiles STaRT for Intracranial Brain Cancer. <i>Advances in Radiation Oncology</i> , 2022, 7, 100910.	0.6	3
63	Converting Treatment Plans From Helical Tomotherapy to L-Shape Linac: Clinical Workflow and Dosimetric Evaluation. <i>Technology in Cancer Research and Treatment</i> , 2018, 17, 153303381878527.	0.8	2
64	Radiation oncology alternative payment model to medical physics profession: More benefits than detriments. <i>Journal of Applied Clinical Medical Physics</i> , 2019, 20, 6-9.	0.8	2
65	Computer automation for physics chart check should be adopted in clinic to replace manual chart checking for radiotherapy. <i>Journal of Applied Clinical Medical Physics</i> , 2021, 22, 4-8.	0.8	2
66	Dosimetric feasibility of stereotactic ablative radiotherapy in pulmonary vein isolation for atrial fibrillation using intensityâ€modulated proton therapy. <i>Journal of Applied Clinical Medical Physics</i> , 2021, 22, 79-88.	0.8	2
67	A Comparison of the Distortion in the Same Field MRI and MR-Linac System With a 3D Printed Phantom. <i>Frontiers in Oncology</i> , 2021, 11, 579451.	1.3	2
68	It is beneficial to invest resources to implement proton intracranial SRS. <i>Journal of Applied Clinical Medical Physics</i> , 2022, 23, .	0.8	2
69	Maximizing the cost benefit of physics residency interview. <i>Journal of Applied Clinical Medical Physics</i> , 2017, 18, 5-8.	0.8	1
70	Impact of different b-value combinations on radiomics features of apparent diffusion coefficient in cervical cancer. <i>Acta Radiologica</i> , 2020, 61, 568-576.	0.5	1
71	Robust optimization in lung treatment plans accounting for geometric uncertainty. , 2018, 19, 19.		1
72	Artificial intelligence can overcome challenges in brachytherapy treatment planning. <i>Journal of Applied Clinical Medical Physics</i> , 2022, 23, e13504.	0.8	1

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73	Globalism versus Nationalism in Medical Physics. Journal of Applied Clinical Medical Physics, 2017, 18, 5-8.	0.8	0
74	Parallel/Opposed Editorial: <scp>DMP</scp>/residency programs are more sustainable than <scp>MPA</scp>s for the future of the medical physics profession. Journal of Applied Clinical Medical Physics, 2018, 19, 330-334.	0.8	0
75	Parallel perspectives for building sustainable safety initiatives. Journal of Applied Clinical Medical Physics, 2019, 20, 5-10.	0.8	0
76	Creating a treatment plan report should be mandated as a minimum standard practice for patient care and QA documentation. Journal of Applied Clinical Medical Physics, 2020, 21, 6-9.	0.8	0
77	Stereotactic body radiotherapy: No longer a special procedure?. Journal of Applied Clinical Medical Physics, 2020, 21, 6-9.	0.8	0
78	Expanding the reach of medical physics: Immunotherapy should be included as part of the curriculum for medical physics education and training. Journal of Applied Clinical Medical Physics, 2020, 21, 6-10.	0.8	0
79	Vendor-provided clinical physics services are a disservice to patients and the medical physics profession. Journal of Applied Clinical Medical Physics, 2021, 22, 4-7.	0.8	0
80	Implementation of Photon Treatment Back-up Workflow at a High-Volume Proton Center: Safety, Quality, and Patient Considerations. Practical Radiation Oncology, 2022, 12, e453-e459.	1.1	0