

# Minsong Cao

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

102  
papers

1,446  
citations

22  
h-index

33  
g-index

114  
ext. papers

1,977  
ext. citations

3.3  
avg, IF

5.74  
L-index

#	Paper	IF	Citations
102	Radiation Therapy for the Treatment of Cardiac Arrhythmias.. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2022</b> , 112, 577-580	4	
101	Surgical ablation after stereotactic body radiation therapy for ventricular arrhythmias.. <i>HeartRhythm Case Reports</i> , <b>2022</b> , 8, 73-76	1	0
100	Magnetic resonance imaging-guided versus computed tomography-guided stereotactic body radiotherapy for prostate cancer (MIRAGE): Interim analysis of a phase III randomized trial.. <i>Journal of Clinical Oncology</i> , <b>2022</b> , 40, 255-255	2.2	1
99	Prostate-Centric Versus Bony-Centric Registration in the Definitive Treatment of Node-Positive Prostate Cancer with Simultaneous Integrated Boost: A Dosimetric Comparison.. <i>Advances in Radiation Oncology</i> , <b>2022</b> , 7, 100944	3.3	
98	Dosimetric impact of interfraction prostate and seminal vesicle volume changes and rotation: A post-hoc analysis of a phase III randomized trial of MRI-guided versus CT-guided stereotactic body radiotherapy.. <i>Radiotherapy and Oncology</i> , <b>2021</b> , 167, 203-210	5.3	4
97	External Beam Radiation Therapy for Primary Liver Cancers: An ASTRO Clinical Practice Guideline. <i>Practical Radiation Oncology</i> , <b>2021</b> ,	2.8	11
96	Bladder surface dose modeling in prostate cancer radiotherapy: An analysis of motion-induced variations and the cumulative dose across the treatment. <i>Medical Physics</i> , <b>2021</b> , 48, 8024	4.4	0
95	Simulated consult and treatment exercise improves radiation oncology trainee confidence and knowledge. <i>Journal of Education and Health Promotion</i> , <b>2021</b> , 10, 218	1.4	
94	Time-Driven Activity-Based Costing of CT-Guided vs MR-Guided Prostate SBRT <b>2021</b> , 10, 33-40		
93	Magnetic resonance imaging-guided stereotactic body radiotherapy for prostate cancer (mirage): a phase iii randomized trial. <i>BMC Cancer</i> , <b>2021</b> , 21, 538	4.8	8
92	Prediction of soft tissue sarcoma response to radiotherapy using longitudinal diffusion MRI and a deep neural network with generative adversarial network-based data augmentation. <i>Medical Physics</i> , <b>2021</b> , 48, 3262-3372	4.4	2
91	A Comparison of the Distortion in the Same Field MRI and MR-Linac System With a 3D Printed Phantom. <i>Frontiers in Oncology</i> , <b>2021</b> , 11, 579451	5.3	0
90	Interfractional Geometric Variations and Dosimetric Benefits of Stereotactic MRI Guided Online Adaptive Radiotherapy (SMART) of Prostate Bed after Radical Prostatectomy: Post-Hoc Analysis of a Phase II Trial. <i>Cancers</i> , <b>2021</b> , 13,	6.6	1
89	Ablative Radiotherapy for Liver Tumors Using Stereotactic MRI-Guidance: A Prospective Phase I Trial. <i>Radiotherapy and Oncology</i> , <b>2021</b> ,	5.3	4
88	Clinical outcomes of stereotactic magnetic resonance image-guided adaptive radiotherapy for primary and metastatic tumors in the abdomen and pelvis. <i>Cancer Medicine</i> , <b>2021</b> , 10, 5897-5906	4.8	3
87	Findings of the AAPM Ad Hoc committee on magnetic resonance imaging in radiation therapy: Unmet needs, opportunities, and recommendations. <i>Medical Physics</i> , <b>2021</b> , 48, 4523-4531	4.4	3
86	Using neural networks to extend cropped medical images for deformable registration among images with differing scan extents. <i>Medical Physics</i> , <b>2021</b> , 48, 4459-4471	4.4	

85	Dose-response with stereotactic body radiotherapy for prostate cancer: A multi-institutional analysis of prostate-specific antigen kinetics and biochemical control. <i>Radiotherapy and Oncology</i> , <b>2021</b> , 154, 207-213	5.3	6
84	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> , <b>2021</b> , 109, 1054-1075	4.1	19
83	Multi-task edge-recalibrated network for male pelvic multi-organ segmentation on CT images. <i>Physics in Medicine and Biology</i> , <b>2021</b> , 66, 035001	3.8	1
82	Clinical assessment of geometric distortion for a 0.35T MR-guided radiotherapy system. <i>Journal of Applied Clinical Medical Physics</i> , <b>2021</b> , 22, 303-309	2.3	1
81	Evaluation of the correlation between dosimetric, geometric, and technical parameters of radiosurgery planning for multiple brain metastases. <i>Journal of Applied Clinical Medical Physics</i> , <b>2021</b> , 22, 83-92	2.3	1
80	Clinical Assessment of Prostate Displacement and Planning Target Volume Margins for Stereotactic Body Radiotherapy of Prostate Cancer. <i>Frontiers in Oncology</i> , <b>2020</b> , 10, 539	5.3	13
79	Time-Driven Activity-Based Costing Comparison of CT-Guided Versus MR-Guided SBRT. <i>JCO Oncology Practice</i> , <b>2020</b> , 16, e1378-e1385	2.3	5
78	Development and Validation of a Comprehensive Multivariate Dosimetric Model for Predicting Late Genitourinary Toxicity Following Prostate Cancer Stereotactic Body Radiotherapy. <i>Frontiers in Oncology</i> , <b>2020</b> , 10, 786	5.3	1
77	Phase 1 Trial of Stereotactic Body Radiation Therapy Neoadjuvant to Radical Prostatectomy for Patients With High-Risk Prostate Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2020</b> , 108, 930-935	4	4
76	The Timeliness Initiative: Continuous Process Improvement for Prompt Initiation of Radiation Therapy Treatment. <i>Advances in Radiation Oncology</i> , <b>2020</b> , 5, 1014-1021	3.3	2
75	Multimodality image registration in the head-and-neck using a deep learning-derived synthetic CT as a bridge. <i>Medical Physics</i> , <b>2020</b> , 47, 1094-1104	4.4	6
74	Effect of Radiation Doses to the Heart on Survival for Stereotactic Ablative Radiotherapy for Early-stage Non-Small-cell Lung Cancer: An Artificial Neural Network Approach. <i>Clinical Lung Cancer</i> , <b>2020</b> , 21, 136-144.e1	4.9	4
73	Prostate-specific antigen kinetics and biochemical control following stereotactic body radiation therapy, high dose rate brachytherapy, and low dose rate brachytherapy: A multi-institutional analysis of 3502 patients. <i>Radiotherapy and Oncology</i> , <b>2020</b> , 151, 26-32	5.3	11
72	Analysis of Geometric Performance and Dosimetric Impact of Using Automatic Contour Segmentation for Radiotherapy Planning. <i>Frontiers in Oncology</i> , <b>2020</b> , 10, 1762	5.3	7
71	Practical Safety Considerations for Integration of Magnetic Resonance Imaging in Radiation Therapy. <i>Practical Radiation Oncology</i> , <b>2020</b> , 10, 443-453	2.8	5
70	Clinical Outcomes Using Magnetic Resonance-Guided Stereotactic Body Radiation Therapy in Patients With Locally Advanced Cholangiocarcinoma. <i>Advances in Radiation Oncology</i> , <b>2020</b> , 5, 189-195	3.3	9
69	Gantry-Mounted Linear Accelerator-Based Stereotactic Body Radiation Therapy for Low- and Intermediate-Risk Prostate Cancer. <i>Advances in Radiation Oncology</i> , <b>2020</b> , 5, 404-411	3.3	5
68	Prostate bed and organ-at-risk deformation: Prospective volumetric and dosimetric data from a phase II trial of stereotactic body radiotherapy after radical prostatectomy. <i>Radiotherapy and Oncology</i> , <b>2020</b> , 148, 44-50	5.3	8

67	Shape constrained fully convolutional DenseNet with adversarial training for multiorgan segmentation on head and neck CT and low-field MR images. <i>Medical Physics</i> , <b>2019</b> , 46, 2669-2682	4.4	27
66	Stereotactic body radiotherapy to the prostate and pelvic lymph nodes: A detailed dosimetric analysis of a phase II prospective trial. <i>British Journal of Radiology</i> , <b>2019</b> , 92, 20181001	3.4	4
65	A Multi-Institutional Experience of MR-Guided Liver Stereotactic Body Radiation Therapy. <i>Advances in Radiation Oncology</i> , <b>2019</b> , 4, 142-149	3.3	66
64	Safety-oriented design of in-house software for new techniques: A case study using a model-based 4DCT protocol. <i>Medical Physics</i> , <b>2019</b> , 46, 1523-1532	4.4	3
63	A Prospective 4D Radiation Therapy Clinical Study in Recurrent High-Grade Glioma Patients. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2018</b> , 101, 144-151	4	24
62	Potential Impact of Ga-PSMA-11 PET/CT on the Planning of Definitive Radiation Therapy for Prostate Cancer. <i>Journal of Nuclear Medicine</i> , <b>2018</b> , 59, 1714-1721	8.9	64
61	Comparison of lung tumor motion measured using a model-based 4DCT technique and a commercial protocol. <i>Practical Radiation Oncology</i> , <b>2018</b> , 8, e175-e183	2.8	2
60	Hazards of sparing the ipsilateral parotid gland in the node-positive neck with intensity modulated radiation therapy: Spatial analysis of regional recurrence risk. <i>Advances in Radiation Oncology</i> , <b>2018</b> , 3, 111-120	3.3	3
59	The Utility of PET/CT in the Planning of External Radiation Therapy for Prostate Cancer. <i>Journal of Nuclear Medicine</i> , <b>2018</b> , 59, 557-567	8.9	31
58	Initial clinical observations of intra- and interfractional motion variation in MR-guided lung SBRT. <i>British Journal of Radiology</i> , <b>2018</b> , 91, 20170522	3.4	32
57	Image-guided radiotherapy for prostate cancer. <i>Translational Andrology and Urology</i> , <b>2018</b> , 7, 308-320	2.3	23
56	Stereotactic MRI-guided Adaptive Radiation Therapy (SMART) for Locally Advanced Pancreatic Cancer: A Promising Approach. <i>Cureus</i> , <b>2018</b> , 10, e2324	1.2	11
55	Stereotactic Magnetic Resonance-guided Online Adaptive Radiotherapy for Oligometastatic Breast Cancer: A Case Report. <i>Cureus</i> , <b>2018</b> , 10, e2368	1.2	4
54	Magnetic Resonance Imaging Guidance Mitigates the Effects of Intrafraction Prostate Motion During Stereotactic Body Radiotherapy for Prostate Cancer. <i>Cureus</i> , <b>2018</b> , 10, e2442	1.2	5
53	Magnetic Resonance-guided Inter-fraction Monitoring Opens Doors to Delivering Safer Reirradiation: An Illustrative Case Report and Discussion. <i>Cureus</i> , <b>2018</b> , 10, e2479	1.2	6
52	MRI-guided Dose-escalated Salvage Radiotherapy for Bulky Bladder Neck Recurrence of Prostate Cancer. <i>Cureus</i> , <b>2018</b> , 10, e2360	1.2	0
51	Image-guided adaptive radiotherapy improves acute toxicity during intensity-modulated radiation therapy for head and neck cancer. <i>Journal of Radiation Oncology</i> , <b>2018</b> , 7, 139-145	0.7	1
50	Ga-PSMA-11 PET/CT Mapping of Prostate Cancer Biochemical Recurrence After Radical Prostatectomy in 270 Patients with a PSA Level of Less Than 1.0 ng/mL: Impact on Salvage Radiotherapy Planning. <i>Journal of Nuclear Medicine</i> , <b>2018</b> , 59, 230-237	8.9	164

49	Cardiac balanced steady-state free precession MRI at 0.35 T: a comparison study with 1.5 T. <i>Quantitative Imaging in Medicine and Surgery</i> , <b>2018</b> , 8, 627-636	3.6	11
48	Retrospective evaluation of decision-making for pancreatic stereotactic MR-guided adaptive radiotherapy. <i>Radiotherapy and Oncology</i> , <b>2018</b> , 129, 319-325	5.3	31
47	Comparison between CT- and MRI-derived head and neck cancer target volumes using an integrated MRI-tri-60Co teletherapy device. <i>Journal of Radiation Oncology</i> , <b>2018</b> , 7, 147-155	0.7	
46	Accelerated 3D bSSFP imaging for treatment planning on an MRI-guided radiotherapy system. <i>Medical Physics</i> , <b>2018</b> , 45, 2595-2602	4.4	5
45	Respiratory motion-resolved, self-gated 4D-MRI using Rotating Cartesian K-space (ROCK): Initial clinical experience on an MRI-guided radiotherapy system. <i>Radiotherapy and Oncology</i> , <b>2018</b> , 127, 467-473	5.3	11
44	Feasibility evaluation of diffusion-weighted imaging using an integrated MRI-radiotherapy system for response assessment to neoadjuvant therapy in rectal cancer. <i>British Journal of Radiology</i> , <b>2017</b> , 90, 20160739	3.4	27
43	Respiratory motion-resolved, self-gated 4D-MRI using rotating cartesian k-space (ROCK). <i>Medical Physics</i> , <b>2017</b> , 44, 1359-1368	4.4	35
42	Tolerance of the Brachial Plexus to High-Dose Reirradiation. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2017</b> , 98, 83-90	4	14
41	Inadequate target volume delineation and local-regional recurrence after intensity-modulated radiotherapy for human papillomavirus-positive oropharynx cancer. <i>Radiotherapy and Oncology</i> , <b>2017</b> , 123, 412-418	5.3	23
40	Dosimetric validation of a magnetic resonance image gated radiotherapy system using a motion phantom and radiochromic film. <i>Journal of Applied Clinical Medical Physics</i> , <b>2017</b> , 18, 163-169	2.3	22
39	Magnetic resonance imaging guided reirradiation of recurrent and second primary head and neck cancer. <i>Advances in Radiation Oncology</i> , <b>2017</b> , 2, 167-175	3.3	14
38	Distortion-free diffusion MRI using an MRI-guided Tri-Cobalt 60 radiotherapy system: Sequence verification and preliminary clinical experience. <i>Medical Physics</i> , <b>2017</b> , 44, 5357-5366	4.4	19
37	Predicting liver SBRT eligibility and plan quality for VMAT and 4D plans. <i>Radiation Oncology</i> , <b>2017</b> , 12, 70	4.2	25
36	Online Adaptive Radiation Therapy: Implementation of a New Process of Care. <i>Cureus</i> , <b>2017</b> , 9, e1618	1.2	51
35	CT and MRI in Radiotherapy <b>2017</b> , 281-300		
34	Radiosensitizing Pancreatic Cancer Xenografts by an Implantable Micro-Oxygen Generator. <i>Radiation Research</i> , <b>2016</b> , 185, 431-7	3.1	
33	Viability of Non-Coplanar VMAT for Liver SBRT as Compared to Coplanar VMAT and Beam Orientation Optimized 4D-MRT. <i>Advances in Radiation Oncology</i> , <b>2016</b> , 1, 67-75	3.3	31
32	A treatment planning comparison between modulated tri-cobalt-60 teletherapy and linear accelerator-based stereotactic body radiotherapy for central early-stage non-small cell lung cancer. <i>Medical Dosimetry</i> , <b>2016</b> , 41, 87-91	1.3	29

31	Accuracy of UTE-MRI-based patient setup for brain cancer radiation therapy. <i>Medical Physics</i> , <b>2016</b> , 43, 262	4.4	16
30	Computed tomography imaging parameters for inhomogeneity correction in radiation treatment planning. <i>Journal of Medical Physics</i> , <b>2016</b> , 41, 3-11	0.7	24
29	Longitudinal diffusion MRI for treatment response assessment: Preliminary experience using an MRI-guided tri-cobalt 60 radiotherapy system. <i>Medical Physics</i> , <b>2016</b> , 43, 1369-73	4.4	63
28	Technical Note: Dosimetric effects of couch position variability on treatment plan quality with an MRI-guided Co-60 radiation therapy machine. <i>Medical Physics</i> , <b>2016</b> , 43, 4514	4.4	
27	Computerized triplet beam orientation optimization for MRI-guided Co-60 radiotherapy. <i>Medical Physics</i> , <b>2016</b> , 43, 5667	4.4	12
26	The significance of PTV dose coverage on cancer control outcomes in early stage non-small cell lung cancer patients treated with highly ablative stereotactic body radiation therapy. <i>British Journal of Radiology</i> , <b>2016</b> , 89, 20150963	3.4	8
25	Anatomic and dosimetric changes in patients with head and neck cancer treated with an integrated MRI-tri-Co teletherapy device. <i>British Journal of Radiology</i> , <b>2016</b> , 89, 20160624	3.4	14
24	Dosimetric feasibility of magnetic resonance imaging-guided tri-cobalt 60 preoperative intensity modulated radiation therapy for soft tissue sarcomas of the extremity. <i>Practical Radiation Oncology</i> , <b>2015</b> , 5, 350-356	2.8	8
23	Feasibility of magnetic resonance imaging-guided liver stereotactic body radiation therapy: A comparison between modulated tri-cobalt-60 teletherapy and linear accelerator-based intensity modulated radiation therapy. <i>Practical Radiation Oncology</i> , <b>2015</b> , 5, 330-337	2.8	25
22	Correlation of Clinical and Dosimetric Parameters With Radiographic Lung Injury Following Stereotactic Body Radiotherapy. <i>Technology in Cancer Research and Treatment</i> , <b>2015</b> , 14, 411-8	2.7	8
21	The development and verification of a highly accurate collision prediction model for automated noncoplanar plan delivery. <i>Medical Physics</i> , <b>2015</b> , 42, 6457-67	4.4	44
20	Dose domain regularization of MLC leaf patterns for highly complex IMRT plans. <i>Medical Physics</i> , <b>2015</b> , 42, 1858-70	4.4	18
19	Monitoring the effects of anti-angiogenesis on the radiation sensitivity of pancreatic cancer xenografts using dynamic contrast-enhanced computed tomography. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2014</b> , 88, 412-8	4	8
18	Brachytherapy dose-volume histogram commissioning with multiple planning systems. <i>Journal of Applied Clinical Medical Physics</i> , <b>2014</b> , 15, 4620	2.3	8
17	Dose impact in radiographic lung injury following lung SBRT: Statistical analysis and geometric interpretation. <i>Medical Physics</i> , <b>2014</b> , 41, 031701	4.4	5
16	Impact of dose size in single fraction spatially fractionated (grid) radiotherapy for melanoma. <i>Medical Physics</i> , <b>2014</b> , 41, 021727	4.4	18
15	Correlation of 2D parameters to lung and heart dose-volume in radiation treatment of breast cancer. <i>Acta Oncologica</i> , <b>2013</b> , 52, 178-83	3.2	12
14	Evaluation of rotational errors in treatment setup of stereotactic body radiation therapy of liver cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2012</b> , 84, e435-40	4	12

13	Technical factors for consideration in selecting a 4-D CT simulator. <i>Journal of the American College of Radiology</i> , <b>2012</b> , 9, 444-6	3.5	1
12	Monitoring the longitudinal intra-tumor physiological impulse response to VEGFR2 blockade in breast tumors using DCE-CT. <i>Molecular Imaging and Biology</i> , <b>2011</b> , 13, 1183-95	3.8	10
11	A simple method for dose fusion from multimodality treatment of prostate cancer: brachytherapy to external beam therapy. <i>Brachytherapy</i> , <b>2011</b> , 10, 214-20	2.4	4
10	Molecular imaging of neutropilin-1 receptor using photoacoustic spectroscopy in breast tumors <b>2010</b> ,		3
9	Dosimetric impact of surgical clips in electron beam treatment of breast cancer. <i>Medical Dosimetry</i> , <b>2010</b> , 35, 85-6	1.3	2
8	Response to Letter Regarding Article: Developing DCE-CT to Quantify Intra-Tumor Heterogeneity in Breast Tumors With Differing Angiogenic Phenotype— <i>IEEE Transactions on Medical Imaging</i> , <b>2010</b> , 29, 1089-1092	11.7	2
7	Developing DCE-CT to quantify intra-tumor heterogeneity in breast tumors with differing angiogenic phenotype. <i>IEEE Transactions on Medical Imaging</i> , <b>2009</b> , 28, 861-71	11.7	31
6	Laser-plasma generated very high energy electrons in radiation therapy of the prostate <b>2008</b> ,		14
5	Photoacoustic spectroscopic imaging of intra-tumor heterogeneity and molecular identification <b>2006</b> ,		7
4	Myocardial physiology measurements using contrast enhanced dynamic computed tomography: simulation of beam hardening effect <b>2006</b> , 6143, 822		
3	Functional imaging in small animals using X-ray computed tomography--study of physiologic measurement reproducibility. <i>IEEE Transactions on Medical Imaging</i> , <b>2005</b> , 24, 832-43	11.7	19
2	HEV maximum power performance simulation and duty cycle generation. <i>International Journal of Vehicle Design</i> , <b>2005</b> , 38, 42	2.4	3
1	Recent Advances in Functional MRI to Predict Treatment Response for Locally Advanced Rectal Cancer. <i>Current Colorectal Cancer Reports</i> ,1	1	