

Minsong Cao

List of Publications by Year in descending order

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112
papers

2,401
citations

218662

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254170

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114
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114
docs citations

114
times ranked

2768
citing authors

#	ARTICLE	IF	CITATIONS
1	⁶⁸ 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> , 2018, 59, 230-237.	5.0	226
2	A Multi-Institutional Experience of MR-Guided Liver Stereotactic Body Radiation Therapy. <i>Advances in Radiation Oncology</i> , 2019, 4, 142-149.	1.2	121
3	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.	0.8	109
4	Longitudinal diffusion MRI for treatment response assessment: Preliminary experience using an MR-guided cobalt 60 radiotherapy system. <i>Medical Physics</i> , 2016, 43, 1369-1373.	3.0	95
5	External Beam Radiation Therapy for Primary Liver Cancers: An ASTRO Clinical Practice Guideline. <i>Practical Radiation Oncology</i> , 2022, 12, 28-51.	2.1	92
6	Potential Impact of ⁶⁸ Ga-PSMA-11 PET/CT on the Planning of Definitive Radiation Therapy for Prostate Cancer. <i>Journal of Nuclear Medicine</i> , 2018, 59, 1714-1721.	5.0	81
7	Online Adaptive Radiation Therapy: Implementation of a New Process of Care. <i>Cureus</i> , 2017, 9, e1618.	0.5	77
8	The development and verification of a highly accurate collision prediction model for automated noncoplanar plan delivery. <i>Medical Physics</i> , 2015, 42, 6457-6467.	3.0	53
9	Respiratory motion-resolved, self-gated 4D-MRI using rotating cartesian k-space (ROCK). <i>Medical Physics</i> , 2017, 44, 1359-1368.	3.0	51
10	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> , 2019, 46, 2669-2682.	3.0	51
11	Initial clinical observations of intra- and interfractional motion variation in MR-guided lung SBRT. <i>British Journal of Radiology</i> , 2018, 91, 20170522.	2.2	44
12	Image-guided radiotherapy for prostate cancer. <i>Translational Andrology and Urology</i> , 2018, 7, 308-320.	1.4	44
13	Viability of Noncoplanar VMAT for liver SBRT compared with coplanar VMAT and beam orientation optimized 4F IMRT. <i>Advances in Radiation Oncology</i> , 2016, 1, 67-75.	1.2	43
14	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> , 2017, 90, 20160739.	2.2	43
15	Retrospective evaluation of decision-making for pancreatic stereotactic MR-guided adaptive radiotherapy. <i>Radiotherapy and Oncology</i> , 2018, 129, 319-325.	0.6	43
16	The Utility of PET/CT in the Planning of External Radiation Therapy for Prostate Cancer. <i>Journal of Nuclear Medicine</i> , 2018, 59, 557-567.	5.0	41
17	A Prospective 4F Radiation Therapy Clinical Study in Recurrent High-Grade Glioma Patients. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018, 101, 144-151.	0.8	36
18	Computed tomography imaging parameters for inhomogeneity correction in radiation treatment planning. <i>Journal of Medical Physics</i> , 2016, 41, 3.	0.3	36

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19	Developing DCE-CT to Quantify Intra-Tumor Heterogeneity in Breast Tumors With Differing Angiogenic Phenotype. IEEE Transactions on Medical Imaging, 2009, 28, 861-871.	8.9	35
20	Dosimetric validation of a magnetic resonance image gated radiotherapy system using a motion phantom and radiochromic film. Journal of Applied Clinical Medical Physics, 2017, 18, 163-169.	1.9	35
21	Inadequate target volume delineation and local/regional recurrence after intensity-modulated radiotherapy for human papillomavirus-positive oropharynx cancer. Radiotherapy and Oncology, 2017, 123, 412-418.	0.6	34
22	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. Medical Dosimetry, 2016, 41, 87-91.	0.9	31
23	Distortion-free diffusion MRI using an MRI-guided Tri-Cobalt 60 radiotherapy system: Sequence verification and preliminary clinical experience. Medical Physics, 2017, 44, 5357-5366.	3.0	31
24	Clinical Outcomes Using Magnetic Resonance-Guided Stereotactic Body Radiation Therapy in Patients With Locally Advanced Cholangiocarcinoma. Advances in Radiation Oncology, 2020, 5, 189-195.	1.2	31
25	Tolerance of the Brachial Plexus to High-Dose Reirradiation. International Journal of Radiation Oncology Biology Physics, 2017, 98, 83-90.	0.8	30
26	Clinical Assessment of Prostate Displacement and Planning Target Volume Margins for Stereotactic Body Radiotherapy of Prostate Cancer. Frontiers in Oncology, 2020, 10, 539.	2.8	29
27	Magnetic resonance imaging-guided stereotactic body radiotherapy for prostate cancer (mirage): a phase iii randomized trial. BMC Cancer, 2021, 21, 538.	2.6	29
28	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. Practical Radiation Oncology, 2015, 5, 330-337.	2.1	28
29	Magnetic resonance imaging guided reirradiation of recurrent and second primary head and neck cancer. Advances in Radiation Oncology, 2017, 2, 167-175.	1.2	28
30	Predicting liver SBRT eligibility and plan quality for VMAT and IMRT plans. Radiation Oncology, 2017, 12, 70.	2.7	28
31	Multimodality image registration in the head and neck using a deep learning-derived synthetic CT as a bridge. Medical Physics, 2020, 47, 1094-1104.	3.0	28
32	Ablative radiotherapy for liver tumors using stereotactic MRI-guidance: A prospective phase I trial. Radiotherapy and Oncology, 2022, 170, 14-20.	0.6	28
33	Impact of dose size in single fraction spatially fractionated (grid) radiotherapy for melanoma. Medical Physics, 2014, 41, 021727.	3.0	24
34	Time-Driven Activity-Based Costing Comparison of CT-Guided Versus MR-Guided SBRT. JCO Oncology Practice, 2020, 16, e1378-e1385.	2.9	24
35	Dose-response with stereotactic body radiotherapy for prostate cancer: A multi-institutional analysis of prostate-specific antigen kinetics and biochemical control. Radiotherapy and Oncology, 2021, 154, 207-213.	0.6	24
36	Magnetic resonance imaging-guided versus computed tomography-guided stereotactic body radiotherapy for prostate cancer (MIRAGE): Interim analysis of a phase III randomized trial. Journal of Clinical Oncology, 2022, 40, 255-255.	1.6	24

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37	Dose domain regularization of MLC leaf patterns for highly complex IMRT plans. <i>Medical Physics</i> , 2015, 42, 1858-1870.	3.0	23
38	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> , 2018, 8, 627-636.	2.0	23
39	Clinical outcomes of stereotactic magnetic resonance image-guided adaptive radiotherapy for primary and metastatic tumors in the abdomen and pelvis. <i>Cancer Medicine</i> , 2021, 10, 5897-5906.	2.8	20
40	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> , 2022, 167, 203-210.	0.6	20
41	Functional imaging in small animals using X-ray computed Tomography -study of physiologic measurement reproducibility. <i>IEEE Transactions on Medical Imaging</i> , 2005, 24, 832-843.	8.9	19
42	Laser-plasma generated very high energy electrons in radiation therapy of the prostate. <i>Proceedings of SPIE</i> , 2008, , .	0.8	19
43	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> , 2018, 127, 467-473.	0.6	19
44	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> , 2020, 151, 26-32.	0.6	19
45	Accuracy of LUTE-MRI-based patient setup for brain cancer radiation therapy. <i>Medical Physics</i> , 2015, 43, 262-267.	3.0	18
46	Anatomic and dosimetric changes in patients with head and neck cancer treated with an integrated MRI-tri- ⁶⁰ Co teletherapy device. <i>British Journal of Radiology</i> , 2016, 89, 20160624.	2.2	18
47	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> , 2016, 89, 20150963.	2.2	17
48	Stereotactic MRI-guided Adaptive Radiation Therapy (SMART) for Locally Advanced Pancreatic Cancer: A Promising Approach. <i>Cureus</i> , 2018, 10, e2324.	0.5	17
49	Evaluation of Rotational Errors in Treatment Setup of Stereotactic Body Radiation Therapy of Liver Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012, 84, e435-e440.	0.8	15
50	Correlation of 2D parameters to lung and heart dose-volume in radiation treatment of breast cancer. <i>Acta Oncologica</i> , 2013, 52, 178-183.	1.8	15
51	Computerized triplet beam orientation optimization for MRI-guided Co ⁶⁰ radiotherapy. <i>Medical Physics</i> , 2016, 43, 5667-5675.	3.0	14
52	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> , 2020, 148, 44-50.	0.6	14
53	Analysis of Geometric Performance and Dosimetric Impact of Using Automatic Contour Segmentation for Radiotherapy Planning. <i>Frontiers in Oncology</i> , 2020, 10, 1762.	2.8	13
54	Photoacoustic spectroscopic imaging of intra-tumor heterogeneity and molecular identification. , 2006, , .		12

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55	Practical Safety Considerations for Integration of Magnetic Resonance Imaging in Radiation Therapy. <i>Practical Radiation Oncology</i> , 2020, 10, 443-453.	2.1	12
56	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> , 2020, 108, 930-935.	0.8	12
57	Are in-house diagnostic MR physicists necessary for clinical implementation of MRI guided radiotherapy?. <i>Journal of Applied Clinical Medical Physics</i> , 2017, 18, 6-9.	1.9	11
58	The Timeliness Initiative: Continuous Process Improvement for Prompt Initiation of Radiation Therapy Treatment. <i>Advances in Radiation Oncology</i> , 2020, 5, 1014-1021.	1.2	11
59	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> , 2021, 48, 3262-3372.	3.0	11
60	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> , 2021, 13, 2802.	3.7	11
61	Evaluation of T2-Weighted MRI for Visualization and Sparing of Urethra with MR-Guided Radiation Therapy (MRgRT) On-Board MRI. <i>Cancers</i> , 2021, 13, 3564.	3.7	11
62	Monitoring the Longitudinal Intra-tumor Physiological Impulse Response to VEGFR2 Blockade in Breast Tumors Using DCE-CT. <i>Molecular Imaging and Biology</i> , 2011, 13, 1183-1195.	2.6	10
63	Brachytherapy dose-volume histogram commissioning with multiple planning systems. <i>Journal of Applied Clinical Medical Physics</i> , 2014, 15, 110-120.	1.9	10
64	Accelerated 3D bSSFP imaging for treatment planning on an MRI-guided radiotherapy system. <i>Medical Physics</i> , 2018, 45, 2595-2602.	3.0	10
65	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> , 2014, 88, 412-418.	0.8	9
66	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> , 2020, 21, 136-144.e1.	2.6	9
67	Automated Non-Coplanar VMAT for Dose Escalation in Recurrent Head and Neck Cancer Patients. <i>Cancers</i> , 2021, 13, 1910.	3.7	9
68	Findings of the AAPM Ad Hoc committee on magnetic resonance imaging in radiation therapy: Unmet needs, opportunities, and recommendations. <i>Medical Physics</i> , 2021, 48, 4523-4531.	3.0	9
69	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> , 2015, 5, 350-356.	2.1	8
70	Correlation of Clinical and Dosimetric Parameters With Radiographic Lung Injury Following Stereotactic Body Radiotherapy. <i>Technology in Cancer Research and Treatment</i> , 2015, 14, 411-418.	1.9	8
71	Stereotactic Magnetic Resonance-guided Online Adaptive Radiotherapy for Oligometastatic Breast Cancer: A Case Report. <i>Cureus</i> , 2018, 10, e2368.	0.5	8
72	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> , 2019, 92, 20181001.	2.2	7

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73	Dosimetric Effects of Air Cavities for MRI-Guided Online Adaptive Radiation Therapy (MRgART) of Prostate Bed after Radical Prostatectomy. <i>Journal of Clinical Medicine</i> , 2022, 11, 364.	2.4	7
74	Ensemble learning and tensor regularization for cone-beam computed tomography-based pelvic organ segmentation. <i>Medical Physics</i> , 2022, 49, 1660-1672.	3.0	7
75	A simple method for dose fusion from multimodality treatment of prostate cancer: Brachytherapy to external beam therapy. <i>Brachytherapy</i> , 2011, 10, 214-220.	0.5	6
76	Dose impact in radiographic lung injury following lung SBRT: Statistical analysis and geometric interpretation. <i>Medical Physics</i> , 2014, 41, 031701.	3.0	6
77	Gantry-Mounted Linear Accelerator-Based Stereotactic Body Radiation Therapy for Low- and Intermediate-Risk Prostate Cancer. <i>Advances in Radiation Oncology</i> , 2020, 5, 404-411.	1.2	6
78	Multi-task edge-recalibrated network for male pelvic multi-organ segmentation on CT images. <i>Physics in Medicine and Biology</i> , 2021, 66, 035001.	3.0	6
79	Magnetic Resonance Imaging Guidance Mitigates the Effects of Intrafraction Prostate Motion During Stereotactic Body Radiotherapy for Prostate Cancer. <i>Cureus</i> , 2018, 10, e2442.	0.5	6
80	Magnetic Resonance-guided Inter-fraction Monitoring Opens Doors to Delivering Safer Reirradiation: An Illustrative Case Report and Discussion. <i>Cureus</i> , 2018, 10, e2479.	0.5	6
81	Molecular imaging of neutropilin-1 receptor using photoacoustic spectroscopy in breast tumors. , 2010, , .		5
82	A Prospective Phase II Study of Automated Non-Coplanar VMAT for Recurrent Head and Neck Cancer: Initial Report of Feasibility, Safety, and Patient-Reported Outcomes. <i>Cancers</i> , 2022, 14, 939.	3.7	5
83	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> , 2018, 3, 111-120.	1.2	4
84	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> , 2021, 22, 83-92.	1.9	4
85	HEV maximum power performance simulation and duty cycle generation. <i>International Journal of Vehicle Design</i> , 2005, 38, 42.	0.3	3
86	Comparison of lung tumor motion measured using a model-based 4DCT technique and a commercial protocol. <i>Practical Radiation Oncology</i> , 2018, 8, e175-e183.	2.1	3
87	Image-guided adaptive radiotherapy improves acute toxicity during intensity-modulated radiation therapy for head and neck cancer. <i>Journal of Radiation Oncology</i> , 2018, 7, 139-145.	0.7	3
88	Safety-oriented design of in-house software for new techniques: A case study using a model-based 4 DCT protocol. <i>Medical Physics</i> , 2019, 46, 1523-1532.	3.0	3
89	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> , 2020, 10, 786.	2.8	3
90	Clinical assessment of geometric distortion for a 0.35T MR-guided radiotherapy system. <i>Journal of Applied Clinical Medical Physics</i> , 2021, 22, 303-309.	1.9	3

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91	Dosimetric Impact of Surgical Clips in Electron Beam Treatment of Breast Cancer. <i>Medical Dosimetry</i> , 2010, 35, 85-86.	0.9	2
92	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> , 2010, 29, 1089-1092.	8.9	2
93	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.	2.8	2
94	MRI-guided Dose-escalated Salvage Radiotherapy for Bulky Bladder Neck Recurrence of Prostate Cancer. <i>Cureus</i> , 2018, 10, e2360.	0.5	2
95	Surgical ablation after stereotactic body radiation therapy for ventricular arrhythmias. <i>HeartRhythm Case Reports</i> , 2022, 8, 73-76.	0.4	2
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> , 2021, 48, 8024-8036.	3.0	2
97	Evaluating dynamic contrast-enhanced and photoacoustic CT to assess intra-tumor heterogeneity in xenograft mouse models. , 2006, , .		1
98	Technical Factors for Consideration in Selecting a 4-D CT Simulator. <i>Journal of the American College of Radiology</i> , 2012, 9, 444-446.	1.8	1
99	Using neural networks to extend cropped medical images for deformable registration among images with differing scan extents. <i>Medical Physics</i> , 2021, 48, 4459-4471.	3.0	1
100	Technical Note: Air bubble-induced performance degradation in automatic rectum segmentation from cone-beam CT. <i>Medical Physics</i> , 2022, , .	3.0	1
101	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> , 2022, 7, 100944.	1.2	1
102	Assessment of multislice CT to quantify pulmonary emphysema function and physiology in a rat model. , 2005, , .		0
103	Myocardial physiology measurements using contrast enhanced dynamic computed tomography: simulation of beam hardening effect. , 2006, 6143, 822.		0
104	Effects of radiation on tumor hemodynamics and NF-kappaB in breast tumors. , 2010, , .		0
105	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> , 2016, 43, 4514-4519.	3.0	0
106	Radiosensitizing Pancreatic Cancer Xenografts by an Implantable Micro-Oxygen Generator. <i>Radiation Research</i> , 2016, 185, 431.	1.5	0
107	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> , 2018, 7, 147-155.	0.7	0
108	Simulated consult and treatment exercise improves radiation oncology trainee confidence and knowledge. <i>Journal of Education and Health Promotion</i> , 2021, 10, 218.	0.6	0

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109	Time-Driven Activity-Based Costing of CT-Guided vs MR-Guided Prostate SBRT. Applied Radiation Oncology, 2021, 10, 33-40.	0.5	0
110	Recent Advances in Functional MRI to Predict Treatment Response for Locally Advanced Rectal Cancer. Current Colorectal Cancer Reports, 0, , 1.	0.5	0
111	Radiation Therapy for the Treatment of Cardiac Arrhythmias. International Journal of Radiation Oncology Biology Physics, 2022, 112, 577-580.	0.8	0
112	A simulated comparison of lung tumor target verification using stereoscopic tomosynthesis or radiography. Medical Physics, 2022, , .	3.0	0