

# Mark Ruschin

## List of Publications by Year in descending order

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70  
papers

2,000  
citations

304743

22  
h-index

254184

43  
g-index

71  
all docs

71  
docs citations

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times ranked

2002  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hypofractionated Stereotactic Radiation Therapy for Intact Brain Metastases in 5 Daily Fractions: Effect of Dose on Treatment Response. <i>International Journal of Radiation Oncology Biology Physics</i> , 2022, 112, 342-350.	0.8	14
2	Symptom Burden Associated With Radiation Dermatitis in Breast Cancer Patients Undergoing Radiotherapy. <i>Clinical Breast Cancer</i> , 2022, 22, e387-e398.	2.4	6
3	Inter-fraction dynamics during post-operative 5 fraction cavity hypofractionated stereotactic radiotherapy with a MR LINAC: a prospective serial imaging study. <i>Journal of Neuro-Oncology</i> , 2022, 156, 569-577.	2.9	12
4	Quantifying the Sensitivity of Target Dose on Intrafraction Displacement in Intracranial Stereotactic Radiosurgery. <i>Practical Radiation Oncology</i> , 2022, 12, e221-e231.	2.1	5
5	Quantitating Interfraction Target Dynamics During Concurrent Chemoradiation for Glioblastoma: A Prospective Serial Imaging Study. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021, 109, 736-746.	0.8	36
6	Quantitative CEST and MT at 1.5T for monitoring treatment response in glioblastoma: early and late tumor progression during chemoradiation. <i>Journal of Neuro-Oncology</i> , 2021, 151, 267-278.	2.9	23
7	Local control and patterns of failure for radioresistant spinal metastases following stereotactic body radiotherapy compared to a radiosensitive reference. <i>Journal of Neuro-Oncology</i> , 2021, 152, 173-182.	2.9	24
8	Predictive factors associated with radiation dermatitis in breast cancer. <i>Cancer Treatment and Research Communications</i> , 2021, 28, 100403.	1.7	8
9	Accuracy and precision of apparent diffusion coefficient measurements on a 1.5T MR-Linac in central nervous system tumour patients. <i>Radiotherapy and Oncology</i> , 2021, 164, 155-162.	0.6	19
10	Chemical exchange saturation transfer MRI in central nervous system tumours on a 1.5T MR-Linac. <i>Radiotherapy and Oncology</i> , 2021, 162, 140-149.	0.6	14
11	Technical Note: Personalized treatment gating thresholds in frameless stereotactic radiosurgery using predictions of dosimetric fidelity and treatment interruption. <i>Medical Physics</i> , 2021, 48, 8045.	3.0	1
12	Dosimetric comparison of two treatment planning systems for spine SBRT. <i>Medical Dosimetry</i> , 2020, 45, 77-84.	0.9	2
13	Technical Principles of Dual-Energy Cone Beam Computed Tomography and Clinical Applications for Radiation Therapy. <i>Advances in Radiation Oncology</i> , 2020, 5, 1-16.	1.2	22
14	Predictors of leptomeningeal disease following hypofractionated stereotactic radiotherapy for intact and resected brain metastases. <i>Neuro-Oncology</i> , 2020, 22, 84-93.	1.2	39
15	A Cancer Care Ontario Organizational Guideline for the Delivery of Stereotactic Radiosurgery for Brain Metastasis in Ontario, Canada. <i>Practical Radiation Oncology</i> , 2020, 10, 243-254.	2.1	5
16	Real-Time Infrared Motion Tracking Analysis for Patients Treated With Gated Frameless Image Guided Stereotactic Radiosurgery. <i>International Journal of Radiation Oncology Biology Physics</i> , 2020, 106, 413-421.	0.8	23
17	Glioma consensus contouring recommendations from a MR-Linac International Consortium Research Group and evaluation of a CT-MRI and MRI-only workflow. <i>Journal of Neuro-Oncology</i> , 2020, 149, 305-314.	2.9	25
18	Do patients enrolled in observational studies have better outcomes than non-participants? A retrospective analysis. <i>Supportive Care in Cancer</i> , 2020, 28, 5751-5761.	2.2	2

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19	Adverse Radiation Effect After Hypofractionated Stereotactic Radiosurgery in 5 Daily Fractions for Surgical Cavities and Intact Brain Metastases. International Journal of Radiation Oncology Biology Physics, 2020, 106, 772-779.	0.8	36
20	Use of radiomics for the prediction of local control of brain metastases after stereotactic radiosurgery. Neuro-Oncology, 2020, 22, 797-805.	1.2	61
21	General Techniques for Radiosurgery. , 2020, , 231-247.		0
22	Clinical Image Coregistration Variability on a Dedicated Radiosurgery Unit. Neurosurgery, 2019, 85, E101-E108.	1.1	5
23	Surgical Resection With Radiation Treatment Planning of Spinal Tumors. Neurosurgery, 2019, 84, 1242-1250.	1.1	13
24	Single-Fraction Stereotactic Radiosurgery Versus Hippocampal-Avoidance Whole Brain Radiation Therapy for Patients With 10 to 30 Brain Metastases: A Dosimetric Analysis. International Journal of Radiation Oncology Biology Physics, 2019, 105, 394-399.	0.8	23
25	Physics of Stereotactic Body Radiotherapy. , 2019, , 175-183.		0
26	Improved dosimetric accuracy with semi-automatic contour propagation of organs at risk in glioblastoma patients undergoing chemoradiation. Journal of Applied Clinical Medical Physics, 2019, 20, 45-53.	1.9	7
27	Image-Guided, Linac-Based, Surgical Cavity-Hypofractionated Stereotactic Radiotherapy in 5 Daily Fractions for Brain Metastases. Neurosurgery, 2019, 85, E860-E869.	1.1	34
28	Quantitative MRI Biomarkers of Stereotactic Radiotherapy Outcome in Brain Metastasis. Scientific Reports, 2019, 9, 19830.	3.3	46
29	Stereotactic Body Radiotherapy for Spinal Metastases at the Extreme Ends of the Spine: Imaging-Based Outcomes for Cervical and Sacral Metastases. Neurosurgery, 2019, 85, 605-612.	1.1	20
30	Assessing Functionality and Benefits of Comprehensive Dose Volume Prescriptions: An International, Multi-Institutional, Treatment Planning Study in Spine Stereotactic Body Radiation Therapy. Practical Radiation Oncology, 2019, 9, 9-15.	2.1	9
31	To frame or not to frame? Cone-beam CT-based analysis of head immobilization devices specific to linac-based stereotactic radiosurgery and radiotherapy. Journal of Applied Clinical Medical Physics, 2018, 19, 111-120.	1.9	44
32	Consensus Contouring Guidelines for Postoperative Completely Resected Cavity Stereotactic Radiosurgery for Brain Metastases. International Journal of Radiation Oncology Biology Physics, 2018, 100, 436-442.	0.8	147
33	The development of a 4D treatment planning methodology to simulate the tracking of central lung tumors in an MRI-based linac. Journal of Applied Clinical Medical Physics, 2018, 19, 145-155.	1.9	11
34	Cone-Beam CT image contrast and attenuation map linearity improvement (CAL) for brain stereotactic radiosurgery procedures. Journal of Applied Clinical Medical Physics, 2018, 19, 200-208.	1.9	1
35	Imaging-Based Outcomes for 24 Gy in 2 Daily Fractions for Patients with de Novo Spinal Metastases Treated With Spine Stereotactic Body Radiation Therapy (SBRT). International Journal of Radiation Oncology Biology Physics, 2018, 102, 499-507.	0.8	83
36	Performance characterization of an integrated cone-beam CT system for dedicated gamma radiosurgery. Medical Physics, 2018, 45, 4179-4190.	3.0	17

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37	Prospective Study of Breast Radiation Dermatitis. <i>Clinical Breast Cancer</i> , 2018, 18, e789-e795.	2.4	24
38	Stereotactic radiosurgery for resected brain metastasis: Cavity dynamics and factors affecting its evolution. <i>Journal of Radiosurgery and SBRT</i> , 2018, 5, 191-200.	0.2	8
39	Positional Accuracy of Treating Multiple Versus Single Vertebral Metastases With Stereotactic Body Radiotherapy. <i>Technology in Cancer Research and Treatment</i> , 2017, 16, 231-237.	1.9	10
40	Stereotactic radiosurgery alone for multiple brain metastases? A review of clinical and technical issues. <i>Neuro-Oncology</i> , 2017, 19, ii2-ii15.	1.2	83
41	Dosimetric Impact of Using a Virtual Couch Shift for Online Correction of Setup Errors for Brain Patients on an Integrated High-Field Magnetic Resonance Imaging Linear Accelerator. <i>International Journal of Radiation Oncology Biology Physics</i> , 2017, 98, 699-708.	0.8	12
42	Dosimetric feasibility of the hybrid Magnetic Resonance Imaging (MRI)-linac System (MRL) for brain metastases: The impact of the magnetic field. <i>Radiotherapy and Oncology</i> , 2017, 125, 273-279.	0.6	26
43	Incorporation of delivery times in stereotactic radiosurgery treatment optimization. <i>Journal of Global Optimization</i> , 2017, 69, 103-115.	1.8	6
44	Investigation of irradiated volume in linac-based brain hypo-fractionated stereotactic radiotherapy. <i>Radiation Oncology</i> , 2017, 12, 117.	2.7	2
45	Postoperative stereotactic body radiotherapy for spinal metastases. <i>Chinese Clinical Oncology</i> , 2017, 6, S18-S18.	1.2	12
46	Technical Note: Multipurpose CT, ultrasound, and MRI breast phantom for use in radiotherapy and minimally invasive interventions. <i>Medical Physics</i> , 2016, 43, 2508-2514.	3.0	23
47	Stereotactic Body Radiotherapy for Spinal Metastases. <i>Cancer Journal (Sudbury, Mass )</i> , 2016, 22, 280-289.	2.0	42
48	Investigation of two linear accelerator head designs for treating brain metastases with hypofractionated volumetric-modulated arc radiotherapy. <i>British Journal of Radiology</i> , 2016, 89, 20160093.	2.2	3
49	Why hypofractionate stereotactic radiosurgery for brain metastases?. <i>CNS Oncology</i> , 2016, 5, 111-113.	3.0	5
50	Investigation of Dose Falloff for Intact Brain Metastases and Surgical Cavities Using Hypofractionated Volumetric Modulated Arc Radiotherapy. <i>Technology in Cancer Research and Treatment</i> , 2016, 15, 130-138.	1.9	7
51	Sci-Fri PM: Radiation Therapy, Planning, Imaging, and Special Techniques - 02: Feasibility of using multileaf collimation for stereotactic radiosurgery of arteriovenous malformation. <i>Medical Physics</i> , 2016, 43, 4955-4955.	3.0	0
52	Non Tumor Perfusion Changes Following Stereotactic Radiosurgery to Brain Metastases. <i>Technology in Cancer Research and Treatment</i> , 2015, 14, tcrtexpress.201.	1.9	9
53	Non Tumor Perfusion Changes Following Stereotactic Radiosurgery to Brain Metastases. <i>Technology in Cancer Research and Treatment</i> , 2015, 14, 497-503.	1.9	18
54	Quality Assurance Results for a Commercial Radiosurgery System. <i>Technology in Cancer Research and Treatment</i> , 2015, 14, 601-605.	1.9	1

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55	Skeletonization for isocentre selection in Gamma Knife® Perfexion®, <i>Int. J. Radiat. Oncol. Biol. Phys.</i> , 2015, 23, 369-385.	1.6	6
56	Evaluating dosimetric differences in spine stereotactic body radiotherapy: An international multi-institutional treatment planning study. <i>Journal of Radiosurgery and SBRT</i> , 2015, 3, 307-314.	0.2	0
57	Measurement of Mean Cardiac Dose for Various Breast Irradiation Techniques and Corresponding Risk of Major Cardiovascular Event. <i>Frontiers in Oncology</i> , 2014, 4, 284.	2.8	16
58	Cone Beam Computed Tomography Image Guidance System for a Dedicated Intracranial Radiosurgery Treatment Unit. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013, 85, 243-250.	0.8	38
59	Automated treatment planning for a dedicated multi-source intracranial radiosurgery treatment unit accounting for overlapping structures and dose homogeneity. <i>Medical Physics</i> , 2013, 40, 091715.	3.0	11
60	Optimization Methods for Large-Scale Radiotherapy Problems. <i>Springer Optimization and Its Applications</i> , 2013, , 1-20.	0.9	1
61	Automated treatment planning for a dedicated multi-source intracranial radiosurgery treatment unit using projected gradient and grassfire algorithms. <i>Medical Physics</i> , 2012, 39, 3134-3141.	3.0	28
62	Performance of a Novel Repositioning Head Frame for Gamma Knife Perfexion and Image-Guided Linac-Based Intracranial Stereotactic Radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010, 78, 306-313.	0.8	55
63	Investigation of intracranial peripheral dose arising from the treatment of large lesions with Leksell GammaKnife® Perfexion®, <i>Medical Physics</i> , 2009, 36, 2069-2073.	3.0	4
64	Breast tomosynthesis and digital mammography: a comparison of breast cancer visibility and BIRADS classification in a population of cancers with subtle mammographic findings. <i>European Radiology</i> , 2008, 18, 2817-2825.	4.5	319
65	Dose dependence of mass and microcalcification detection in digital mammography: Free response human observer studies. <i>Medical Physics</i> , 2007, 34, 400-407.	3.0	72
66	Nodule detection in digital chest radiography: introduction to the RADIUS chest trial. <i>Radiation Protection Dosimetry</i> , 2005, 114, 85-91.	0.8	46
67	Nodule detection in digital chest radiography: summary of the RADIUS chest trial. <i>Radiation Protection Dosimetry</i> , 2005, 114, 114-120.	0.8	50
68	A software tool for increased efficiency in observer performance studies in radiology. <i>Radiation Protection Dosimetry</i> , 2005, 114, 45-52.	0.8	139
69	Digital fluoroscopy to quantify lung tumor motion: potential for patient-specific planning target volumes. <i>International Journal of Radiation Oncology Biology Physics</i> , 2003, 57, 717-723.	0.8	75
70	Integration of digital fluoroscopy with CT-based radiation therapy planning of lung tumors. <i>Medical Physics</i> , 2002, 29, 1698-1709.	3.0	12