

# 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

71  
times ranked

2002  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Consensus Contouring Guidelines for Postoperative Completely Resected Cavity Stereotactic Radiosurgery for Brain Metastases. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018, 100, 436-442.	0.8	147
3	A software tool for increased efficiency in observer performance studies in radiology. <i>Radiation Protection Dosimetry</i> , 2005, 114, 45-52.	0.8	139
4	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
5	Imaging-Based Outcomes for 24ÂGy in 2 Daily Fractions for Patients with de Novo Spinal Metastases Treated With Spine Stereotactic Body Radiation Therapy (SBRT). <i>International Journal of Radiation Oncology Biology Physics</i> , 2018, 102, 499-507.	0.8	83
6	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
7	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
8	Use of radiomics for the prediction of local control of brain metastases after stereotactic radiosurgery. <i>Neuro-Oncology</i> , 2020, 22, 797-805.	1.2	61
9	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
10	Nodule detection in digital chest radiography: summary of the RADIUS chest trial. <i>Radiation Protection Dosimetry</i> , 2005, 114, 114-120.	0.8	50
11	Nodule detection in digital chest radiography: introduction to the RADIUS chest trial. <i>Radiation Protection Dosimetry</i> , 2005, 114, 85-91.	0.8	46
12	Quantitative MRI Biomarkers of Stereotactic Radiotherapy Outcome in Brain Metastasis. <i>Scientific Reports</i> , 2019, 9, 19830.	3.3	46
13	To frame or not to frame? Coneâ€beam CTâ€based analysis of head immobilization devices specific to linacâ€based stereotactic radiosurgery and radiotherapy. <i>Journal of Applied Clinical Medical Physics</i> , 2018, 19, 111-120.	1.9	44
14	Stereotactic Body Radiotherapy for Spinal Metastases. <i>Cancer Journal (Sudbury, Mass )</i> , 2016, 22, 280-289.	2.0	42
15	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
16	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
17	Adverse Radiation Effect After Hypofractionated Stereotactic Radiosurgery in 5 Daily Fractions for Surgical Cavities and Intact Brain Metastases. <i>International Journal of Radiation Oncology Biology Physics</i> , 2020, 106, 772-779.	0.8	36
18	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

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19	Image-Guided, Linac-Based, Surgical Cavity-Hypofractionated Stereotactic Radiotherapy in 5 Daily Fractions for Brain Metastases. <i>Neurosurgery</i> , 2019, 85, E860-E869.	1.1	34
20	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
21	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
22	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
23	Prospective Study of Breast Radiation Dermatitis. <i>Clinical Breast Cancer</i> , 2018, 18, e789-e795.	2.4	24
24	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
25	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
26	Single-Fraction Stereotactic Radiosurgery Versus Hippocampal-Avoidance Whole Brain Radiation Therapy for Patients With 10 to 30 Brain Metastases: A Dosimetric Analysis. <i>International Journal of Radiation Oncology Biology Physics</i> , 2019, 105, 394-399.	0.8	23
27	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
28	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
29	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
30	Stereotactic Body Radiotherapy for Spinal Metastases at the Extreme Ends of the Spine: Imaging-Based Outcomes for Cervical and Sacral Metastases. <i>Neurosurgery</i> , 2019, 85, 605-612.	1.1	20
31	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
32	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
33	Performance characterization of an integrated cone-beam CT system for dedicated gamma radiosurgery. <i>Medical Physics</i> , 2018, 45, 4179-4190.	3.0	17
34	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
35	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
36	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

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37	Surgical Resection With Radiation Treatment Planning of Spinal Tumors. <i>Neurosurgery</i> , 2019, 84, 1242-1250.	1.1	13
38	Integration of digital fluoroscopy with CT-based radiation therapy planning of lung tumors. <i>Medical Physics</i> , 2002, 29, 1698-1709.	3.0	12
39	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
40	Postoperative stereotactic body radiotherapy for spinal metastases. <i>Chinese Clinical Oncology</i> , 2017, 6, S18-S18.	1.2	12
41	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
42	Automated treatment planning for a dedicated multi-source intra-cranial radiosurgery treatment unit accounting for overlapping structures and dose homogeneity. <i>Medical Physics</i> , 2013, 40, 091715.	3.0	11
43	The development of a 4D treatment planning methodology to simulate the tracking of central lung tumors in an MRI-LINAC. <i>Journal of Applied Clinical Medical Physics</i> , 2018, 19, 145-155.	1.9	11
44	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
45	Non Tumor Perfusion Changes Following Stereotactic Radiosurgery to Brain Metastases. <i>Technology in Cancer Research and Treatment</i> , 2015, 14, tcrtextpress.201.	1.9	9
46	Assessing Functionality and Benefits of Comprehensive Dose Volume Prescriptions: An International, Multi-Institutional, Treatment Planning Study in Spine Stereotactic Body Radiation Therapy. <i>Practical Radiation Oncology</i> , 2019, 9, 9-15.	2.1	9
47	Predictive factors associated with radiation dermatitis in breast cancer. <i>Cancer Treatment and Research Communications</i> , 2021, 28, 100403.	1.7	8
48	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
49	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
50	Improved dosimetric accuracy with semi-automatic contour propagation of organs-at-risk in glioblastoma patients undergoing chemoradiation. <i>Journal of Applied Clinical Medical Physics</i> , 2019, 20, 45-53.	1.9	7
51	Skeletonization for isocentre selection in Gamma Knife® Perfexion®, <i>Top</i> , 2015, 23, 369-385.	1.6	6
52	Incorporation of delivery times in stereotactic radiosurgery treatment optimization. <i>Journal of Global Optimization</i> , 2017, 69, 103-115.	1.8	6
53	Symptom Burden Associated With Radiation Dermatitis in Breast Cancer Patients Undergoing Radiotherapy. <i>Clinical Breast Cancer</i> , 2022, 22, e387-e398.	2.4	6
54	Why hypofractionate stereotactic radiosurgery for brain metastases?. <i>CNS Oncology</i> , 2016, 5, 111-113.	3.0	5

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55	Clinical Image Coregistration Variability on a Dedicated Radiosurgery Unit. <i>Neurosurgery</i> , 2019, 85, E101-E108.	1.1	5
56	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
57	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
58	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
59	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
60	Investigation of irradiated volume in linac-based brain hypo-fractionated stereotactic radiotherapy. <i>Radiation Oncology</i> , 2017, 12, 117.	2.7	2
61	Dosimetric comparison of two treatment planning systems for spine SBRT. <i>Medical Dosimetry</i> , 2020, 45, 77-84.	0.9	2
62	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
63	Quality Assurance Results for a Commercial Radiosurgery System. <i>Technology in Cancer Research and Treatment</i> , 2015, 14, 601-605.	1.9	1
64	Cone-Beam CT image contrast and attenuation map linearity improvement (CAL) for brain stereotactic radiosurgery procedures. <i>Journal of Applied Clinical Medical Physics</i> , 2018, 19, 200-208.	1.9	1
65	Optimization Methods for Large-Scale Radiotherapy Problems. <i>Springer Optimization and Its Applications</i> , 2013, , 1-20.	0.9	1
66	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
67	Physics of Stereotactic Body Radiotherapy. , 2019, , 175-183.		0
68	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
69	General Techniques for Radiosurgery. , 2020, , 231-247.		0
70	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