

Strahinja Stojadinovic

List of Publications by Year in descending order

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Version: 2024-02-01

92
papers

1,278
citations

394421

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361022

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93
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docs citations

93
times ranked

1600
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Deep-learning and radiomics ensemble classifier for false positive reduction in brain metastases segmentation. <i>Physics in Medicine and Biology</i> , 2022, 67, 025004. | 3.0 | 8 |
| 2 | Dose kernel decomposition for spotâ€based radiotherapy treatment planning. <i>Medical Physics</i> , 2022, 49, 1196-1208. | 3.0 | 1 |
| 3 | A general algorithm for distributed treatments of multiple brain metastases. <i>Medical Physics</i> , 2021, 48, 1832-1838. | 3.0 | 2 |
| 4 | Expanded Radiosurgery Capabilities Utilizing Gamma Knife Iconâ„. <i>Cureus</i> , 2021, 13, e13998. | 0.5 | 4 |
| 5 | Oxygen-Sensitive MRI: A Predictive Imaging Biomarker for Tumor Radiation Response?. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021, 110, 1519-1529. | 0.8 | 15 |
| 6 | Dose rate determination for preclinical total body irradiation. <i>Physics in Medicine and Biology</i> , 2020, 65, 175018. | 3.0 | 1 |
| 7 | Margin-Free Fractionated Stereotactic Radiation Therapy for Pediatric Brain Tumors. <i>Practical Radiation Oncology</i> , 2020, 10, e485-e494. | 2.1 | 4 |
| 8 | A webâ€based brain metastases segmentation and labeling platform for stereotactic radiosurgery. <i>Medical Physics</i> , 2020, 47, 3263-3276. | 3.0 | 12 |
| 9 | A Mail Audit Independent Peer Review System for Dosimetry Verification of a Small Animal Irradiator. <i>Radiation Research</i> , 2020, 193, 341. | 1.5 | 5 |
| 10 | Benefit of Multimodality Image Acquisition in the Treatment Planning of Stereotactic Radiosurgery (SRS) of Arteriovenous Malformation (AVM). , 2020, , . | | 0 |
| 11 | Modeling Radiosurgery Normal Tissue Dose: Target Surface Area Serves as the Best Single Pre-treatment Predictor. <i>International Journal of Radiation Oncology Biology Physics</i> , 2019, 105, S103-S104. | 0.8 | 0 |
| 12 | Modeling Elekta VersaHD using the Varian Eclipse treatment planning system for photon beams: A singleâ€institution experience. <i>Journal of Applied Clinical Medical Physics</i> , 2019, 20, 33-42. | 1.9 | 8 |
| 13 | Considerations of target surface area and the risk of radiosurgical toxicity. <i>PLoS ONE</i> , 2019, 14, e0224047. | 2.5 | 4 |
| 14 | Custom Design for Extended FSD Superficial Treatments. <i>International Journal of Radiation Oncology Biology Physics</i> , 2019, 105, E790-E791. | 0.8 | 0 |
| 15 | Improved Survival Outcomes for Kidney Cancer Patients With Brain Metastases. <i>Clinical Genitourinary Cancer</i> , 2019, 17, e263-e272. | 1.9 | 19 |
| 16 | Stereotactic Radiosurgery for Multiple Brain Metastases From Renal-Cell Carcinoma. <i>Clinical Genitourinary Cancer</i> , 2019, 17, e273-e280. | 1.9 | 25 |
| 17 | Real-Time Whole-Brain Radiation Therapy: A Single-Institution Experience. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018, 100, 1280-1288. | 0.8 | 6 |
| 18 | MR-CBCT image-guided system for radiotherapy of orthotopic rat prostate tumors. <i>PLoS ONE</i> , 2018, 13, e0198065. | 2.5 | 7 |

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|----|---|-----|-----------|
| 19 | Automated high-dose rate brachytherapy treatment planning for a single-channel vaginal cylinder applicator. <i>Physics in Medicine and Biology</i> , 2017, 62, 4361-4374. | 3.0 | 20 |
| 20 | Technical Note: System for evaluating local hypothermia as a radioprotector of the rectum in a small animal model. <i>Medical Physics</i> , 2017, 44, 3932-3938. | 3.0 | 1 |
| 21 | Effects of clinical X-ray irradiation on UHMWPE films. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017, 410, 139-143. | 1.4 | 14 |
| 22 | Reduced toxicity with equivalent outcomes using three-dimensional volumetric (3DV) image-based versus nonvolumetric point-based (NV) brachytherapy in a cervical cancer population. <i>Brachytherapy</i> , 2017, 16, 943-948. | 0.5 | 9 |
| 23 | A deep convolutional neural network-based automatic delineation strategy for multiple brain metastases stereotactic radiosurgery. <i>PLoS ONE</i> , 2017, 12, e0185844. | 2.5 | 109 |
| 24 | Tumor physiological changes during hypofractionated stereotactic body radiation therapy assessed using multi-parametric magnetic resonance imaging. <i>Oncotarget</i> , 2017, 8, 37464-37477. | 1.8 | 31 |
| 25 | Effective Rat Lung Tumor Model for Stereotactic Body Radiation Therapy. <i>Radiation Research</i> , 2016, 185, 616-622. | 1.5 | 7 |
| 26 | Tumor radio-sensitivity assessment by means of volume data and magnetic resonance indices measured on prostate tumor bearing rats. <i>Medical Physics</i> , 2016, 43, 1275-1284. | 3.0 | 7 |
| 27 | The step-and-shoot IMRT overshooting phenomenon: a novel method to mitigate patient overdosage. <i>Journal of Applied Clinical Medical Physics</i> , 2016, 17, 214-222. | 1.9 | 1 |
| 28 | Reduced Toxicity with Equivalent Outcomes Using Three-Dimensional (3D) Image-Based versus Two-Dimensional (2D) Brachytherapy in an Indigent Cervical Cancer Population. <i>Brachytherapy</i> , 2016, 15, S102-S103. | 0.5 | 0 |
| 29 | EP-1718: Estimation of tumor radio-sensitivity using mathematical models and analysis of the oxygenation role. <i>Radiotherapy and Oncology</i> , 2016, 119, S803-S804. | 0.6 | 0 |
| 30 | Automatic metastatic brain tumor segmentation for stereotactic radiosurgery applications. <i>Physics in Medicine and Biology</i> , 2016, 61, 8440-8461. | 3.0 | 18 |
| 31 | Developing oxygen-enhanced magnetic resonance imaging as a prognostic biomarker of radiation response. <i>Cancer Letters</i> , 2016, 380, 69-77. | 7.2 | 55 |
| 32 | SU-C-BRA-06: Automatic Brain Tumor Segmentation for Stereotactic Radiosurgery Applications. <i>Medical Physics</i> , 2016, 43, 3322-3322. | 3.0 | 0 |
| 33 | Breaking bad IMRT QA practice. <i>Journal of Applied Clinical Medical Physics</i> , 2015, 16, 154-165. | 1.9 | 43 |
| 34 | Dosimetric comparison of Acuros XB with collapsed cone convolution/superposition and anisotropic analytic algorithm for stereotactic ablative radiotherapy of thoracic spinal metastases. <i>Journal of Applied Clinical Medical Physics</i> , 2015, 16, 181-192. | 1.9 | 26 |
| 35 | Commissioning and Acceptance Testing of a High Dose-Rate ³² P Plaque for Intraoperative Brachytherapy of the Spinal Dura. <i>Brachytherapy</i> , 2015, 14, S64. | 0.5 | 0 |
| 36 | An Automated Treatment Plan Quality Assurance Program for Tandem and Ovoid High Dose-Rate Brachytherapy. <i>Brachytherapy</i> , 2015, 14, S67. | 0.5 | 0 |

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|----|---|-----|-----------|
| 37 | Inferior Critical Organ Dose-Profile in Non-Volumetric (Two-Dimensional) Versus Volumetric (Three-Dimensional) Brachytherapy May Predict for Greater Toxicity. <i>Brachytherapy</i> , 2015, 14, S83. | 0.5 | 1 |
| 38 | Stereotactic Treatment of Multiple Brain Metastasis: Pseudo In Vivo Evaluation of Three Different Techniques. <i>International Journal of Radiation Oncology Biology Physics</i> , 2015, 93, E572. | 0.8 | 0 |
| 39 | SUâ€Câ€213â€07: Fabrication and Testing of a 3Dâ€Printed Small Animal Rectal Cooling Device to Evaluate Local Hypothermia as a Radioprotector During Prostate SBRT. <i>Medical Physics</i> , 2015, 42, 3189-3189. | 3.0 | 1 |
| 40 | TU-AB-201-02: An Automated Treatment Plan Quality Assurance Program for Tandem and Ovoid High Dose-Rate Brachytherapy. <i>Medical Physics</i> , 2015, 42, 3594-3594. | 3.0 | 0 |
| 41 | SU-D-BRD-02: Auto Weekly - An Automated Online Weekly Chart Check System for Medical Physics. <i>Medical Physics</i> , 2015, 42, 3209-3209. | 3.0 | 0 |
| 42 | SUâ€Eâ€Tâ€184: Clinical VMAT QA Practice Using LINAC Delivery Log Files. <i>Medical Physics</i> , 2015, 42, 3374-3374. | 3.0 | 0 |
| 43 | Genome-Wide Association Analysis of Radiation Resistance in <i>Drosophila melanogaster</i> . <i>PLoS ONE</i> , 2014, 9, e104858. | 2.5 | 31 |
| 44 | Correlations of noninvasive BOLD and TOLD MRI with pO_2 and relevance to tumor radiation response. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 1863-1873. | 3.0 | 114 |
| 45 | Initial Experience With VMAT Plan and Delivery Verification Using a DICOM-RT Framework and Linac Delivery Log Files. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014, 90, S886-S887. | 0.8 | 1 |
| 46 | SU-E-T-213: Initial Experience with VMAT Plan and Delivery Verification Using a DICOM-RT Framework and Linac Delivery Log Files. <i>Medical Physics</i> , 2014, 41, 272-272. | 3.0 | 0 |
| 47 | WE-A-17A-04: Development of An Ultra-Fast Monte Carlo Dose Engine for High Dose Rate Brachytherapy. <i>Medical Physics</i> , 2014, 41, 488-488. | 3.0 | 0 |
| 48 | Evaluation of Acuros XB for SABR Planning of Thoracic Spinal Tumors. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013, 87, S733. | 0.8 | 1 |
| 49 | The Importance of Dosimetry Standardization in Radiobiology. <i>Journal of Research of the National Institute of Standards and Technology</i> , 2013, 118, 403. | 1.2 | 94 |
| 50 | SU-E-T-575: Independent Verification of VMAT Treatment Plans Using a DICOM-RT Framework. <i>Medical Physics</i> , 2013, 40, 337-337. | 3.0 | 1 |
| 51 | Partial Depletion of Regulatory T Cells Does Not Influence the Inflammation Caused by High Dose Hemi-Body Irradiation. <i>PLoS ONE</i> , 2013, 8, e56607. | 2.5 | 11 |
| 52 | SU-E-T-381: The Step-And-Shoot IMRT Overshooting Phenomena: A Novel Method to Mitigate Patient Overdosage. <i>Medical Physics</i> , 2013, 40, 292-292. | 3.0 | 0 |
| 53 | SU-E-T-556: Verification and Evaluation of Acuros XB Dose Calculations for Stereotactic Ablative Radiotherapy of the Thoracic Spine. <i>Medical Physics</i> , 2013, 40, 333-333. | 3.0 | 0 |
| 54 | WE-E-108-05: Evaluation of the XRAD 225Cx MC Source Model in Heterogeneous Mediums. <i>Medical Physics</i> , 2013, 40, 489-489. | 3.0 | 0 |

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|----|---|-----|-----------|
| 55 | WE-E-108-06: Demonstration of a CBCT Based Monte Carlo Model for Small Animal Treatment Planning. Medical Physics, 2013, 40, 489-489. | 3.0 | 0 |
| 56 | Gamma Analysis of Normalized and Un-normalized Dose Distributions. International Journal of Radiation Oncology Biology Physics, 2012, 84, S806. | 0.8 | 0 |
| 57 | Depletion of Regulatory T Cells Does Not Influence the Inflammatory Response Induced by High-dose Irradiation. International Journal of Radiation Oncology Biology Physics, 2012, 84, S689-S690. | 0.8 | 0 |
| 58 | An athymic rat model of cutaneous radiation injury designed to study human tissue-based wound therapy. Radiation Oncology, 2012, 7, 68. | 2.7 | 15 |
| 59 | SU-E-T-386: Gamma Analysis of Normalized and Un-Normalized Dose Distributions. Medical Physics, 2012, 39, 3793-3793. | 3.0 | 0 |
| 60 | SU-E-T-274: Monte Carlo Simulations of Output Factors for a Small Animal Irradiator. Medical Physics, 2012, 39, 3766-3766. | 3.0 | 0 |
| 61 | Dosimetric characterization of an image-guided stereotactic small animal irradiator. Physics in Medicine and Biology, 2011, 56, 2585-2599. | 3.0 | 56 |
| 62 | An x-ray image guidance system for small animal stereotactic irradiation. Physics in Medicine and Biology, 2010, 55, 7345-7362. | 3.0 | 39 |
| 63 | SU-GG-J-06: Optical and X-Ray Image Guided Stereotactic Body Irradiator Dedicated to Small Animals. Medical Physics, 2010, 37, 3146-3146. | 3.0 | 0 |
| 64 | TH-C-204B-08: Energy Dependency and Dosimetric Modeling in Small Animal Stereotactic Irradiation. Medical Physics, 2010, 37, 3456-3457. | 3.0 | 0 |
| 65 | Dosimetric Characterization of Stereotactic Small Animal Irradiator. International Journal of Radiation Oncology Biology Physics, 2009, 75, S671. | 0.8 | 0 |
| 66 | SMALL ANIMAL SBRT IRRADIATOR. Radiotherapy and Oncology, 2009, 92, S117. | 0.6 | 0 |
| 67 | TH-C-BRC-04: Small Animal Stereotactic Irradiator. Medical Physics, 2009, 36, 2798-2798. | 3.0 | 0 |
| 68 | SU-FF-J-157: A Monte Carlo Model for Small Animal Stereotactic Irradiation. Medical Physics, 2009, 36, 2513-2513. | 3.0 | 0 |
| 69 | SU-FF-T-483: Optical Enhancement of DNA-Base Radio-Resistivity. Medical Physics, 2009, 36, 2634-2634. | 3.0 | 0 |
| 70 | TU-C-BRD-04: Development and Application of a Pre-Clinical Stereotactic Irradiator. Medical Physics, 2009, 36, 2720-2720. | 3.0 | 0 |
| 71 | Potential Effect of Inherent Treatment Planning Uncertainties on Expected Vs. Actual Dose to Skin and Chest Wall with the Mammosite (MS) for Accelerated Partial Breast Irradiation. International Journal of Radiation Oncology Biology Physics, 2008, 72, S187. | 0.8 | 0 |
| 72 | Errors and Uncertainties in Accelerated Partial Breast Irradiation (APBI) with Balloon Brachytherapy: Are Current Target Coverage Goals Adequate?. International Journal of Radiation Oncology Biology Physics, 2008, 72, S518. | 0.8 | 0 |

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|----|---|-----|-----------|
| 73 | Feasibility of small animal cranial irradiation with the microRT system. Medical Physics, 2008, 35, 4735-4743. | 3.0 | 33 |
| 74 | TU-C-AUD C-03: Teletherapy MicroRT Using a Commercial 192Ir Source. Medical Physics, 2008, 35, 2890-2890. | 3.0 | 0 |
| 75 | MO-E-AUD C-07: Modeling Small Animal Micro Irradiator Orthovoltage Sources. Medical Physics, 2008, 35, 2877-2877. | 3.0 | 2 |
| 76 | TH-C-351A-01: Design of the Washington University Small Animal Conformal Micro Irradiator. Medical Physics, 2008, 35, 2974-2974. | 3.0 | 0 |
| 77 | TH-C-351A-01: A Systematic Analysis of Errors and Uncertainties in Partial Breast Irradiation Using the MammoSite Balloon Catheter. Medical Physics, 2008, 35, 2969-2969. | 3.0 | 0 |
| 78 | MicroRT Small animal conformal irradiator. Medical Physics, 2007, 34, 4706-4716. | 3.0 | 94 |
| 79 | SU-FF-T-183: Dosimetric Verification of a Commercial Research Irradiator. Medical Physics, 2007, 34, 2443-2443. | 3.0 | 0 |
| 80 | SU-EE-A1-01: Dosimetric Comparisons of DMPO and Two-Step Approach Step-And-Shoot IMRT Plans. Medical Physics, 2007, 34, 2335-2335. | 3.0 | 0 |
| 81 | 141 Targeted sub-total irradiation of mouse models for normal tissue complication modeling using a prototype micort device. Radiotherapy and Oncology, 2006, 78, S46. | 0.6 | 0 |
| 82 | 2647. International Journal of Radiation Oncology Biology Physics, 2006, 66, S570. | 0.8 | 0 |
| 83 | Critical behavior at the isotropic-to-nematic phase transition in a bent-core liquid crystal. Physical Review E, 2006, 73, 030703. | 2.1 | 66 |
| 84 | Progress toward a microradiation therapy small animal conformal irradiator. Medical Physics, 2006, 33, 3834-3845. | 3.0 | 49 |
| 85 | TH-C-230A-08: A Prototype Rotational Immobilization System for a Proposed Static-Gantry MicroRT Device with Tomographic Capabilities. Medical Physics, 2006, 33, 2272-2272. | 3.0 | 4 |
| 86 | TH-C-224C-02: MicroRT/microRTP: A Conformal Small Animal Planning and Irradiation System. Medical Physics, 2006, 33, 2273-2273. | 3.0 | 3 |
| 87 | Optically isotropic liquid-crystal phase of bent-core molecules with polar nanostructure. Physical Review E, 2005, 72, 021710. | 2.1 | 37 |
| 88 | MO-D-T-6E-09: Progress Towards a MicroRT Small Animal Conformal Irradiator. Medical Physics, 2005, 32, 2063-2063. | 3.0 | 4 |
| 89 | SU-FF-T-262: Advanced Irradiator for the Small Animal Conformal Treatment. Medical Physics, 2005, 32, 2010-2010. | 3.0 | 0 |
| 90 | Optical studies of the nematic phase of an oxazole-derived bent-core liquid crystal. Physical Review E, 2003, 68, 041704. | 2.1 | 64 |

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|----|---|-----|-----------|
| 91 | Light Scattering Study of a Twist Grain Boundary Liquid Crystal. Physical Review Letters, 2003, 90, 035503. | 7.8 | 6 |
| 92 | Dynamics of the nematic phase of a bent-core liquid crystal. Physical Review E, 2002, 66, 060701. | 2.1 | 89 |