Sanford L Meeks

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Practical Considerations for Single Isocenter LINAC Radiosurgery of Multiple Brain Metastases. Practical Radiation Oncology, 2022, 12, 195-199.	2.1	10
2	Dosimetric Comparison of Various Spot Placement Techniques in Proton Pencil Beam Scanning. International Journal of Particle Therapy, 2022, 9, 54-63.	1.8	0
3	Variability in commercially available deformable image registration: A multiâ€institution analysis using virtual head and neck phantoms. Journal of Applied Clinical Medical Physics, 2021, 22, 89-96.	1.9	6
4	Impact of Radiation Oncology Alternative Payment Model on Community Cancer Centers. JCO Oncology Practice, 2021, 17, e1949-e1957.	2.9	5
5	Effect of Proposed Episode-Based Payment Models on Advanced Radiotherapy Procedures. JCO Oncology Practice, 2021, 17, e1943-e1948.	2.9	8
6	Research productivity of radiation therapy physics faculty in the United States. Journal of Applied Clinical Medical Physics, 2021, 22, 185-195.	1.9	2
7	AAPM TG 191: Clinical use of luminescent dosimeters: TLDs and OSLDs. Medical Physics, 2020, 47, e19-e51.	3.0	97
8	Technical Report: Diagnostic Scan-Based Planning (DSBP), A Method to Improve the Speed and Safety of Radiation Therapy for the Treatment of Critically III Patients. Practical Radiation Oncology, 2020, 10, e425-e431.	2.1	9
9	Evaluation of cine imaging during multileaf collimator and gantry motion for realâ€ŧime magnetic resonance guided radiation therapy. Journal of Applied Clinical Medical Physics, 2020, 21, 178-187.	1.9	2
10	Intrafraction motion during frameless radiosurgery using Varian HyperArc and BrainLab Elements immobilization systems. Journal of Radiosurgery and SBRT, 2020, 7, 149-156.	0.2	2
11	An optimized approach for robust spot placement in proton pencil beam scanning. Physics in Medicine and Biology, 2019, 64, 235016.	3.0	3
12	Commissioning an inâ€room mobile <scp>CT</scp> for adaptive proton therapy with a compact proton system. Journal of Applied Clinical Medical Physics, 2018, 19, 149-158.	1.9	10
13	Effectiveness of baseâ€ofâ€skull immobilization system in a compact proton therapy setting. Journal of Applied Clinical Medical Physics, 2018, 19, 261-267.	1.9	4
14	Development of a Virtual Radiation Oncology Clinic for training and simulation of errors in the radiation oncology workflow. Practical Radiation Oncology, 2018, 8, 239-244.	2.1	0
15	The Mobius <scp>AIRO</scp> mobile <scp>CT</scp> for imageâ€guided proton therapy: Characterization & commissioning. Journal of Applied Clinical Medical Physics, 2017, 18, 130-136.	1.9	14
16	Orthogonal image pairs coupled with OSMS for noncoplanar beam angle, intracranial, single-isocenter, SRS treatments with multiple targets on the Varian Edge radiosurgery system. Advances in Radiation Oncology, 2017, 2, 494-502.	1.2	8
17	Benchmarking of five commercial deformable image registration algorithms for head and neck patients. Journal of Applied Clinical Medical Physics, 2016, 17, 25-40.	1.9	65
18	A margin-based analysis of the dosimetric impact of motion on step-and-shoot IMRT lung plans. Radiation Oncology, 2014, 9, 46.	2.7	5

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19	4D-CT Lung registration using anatomy-based multi-level multi-resolution optical flow analysis and thin-plate splines. International Journal of Computer Assisted Radiology and Surgery, 2014, 9, 875-889.	2.8	13
20	Clinical evaluation of interfractional variations for whole breast radiotherapy using 3-dimensional surface imaging. Practical Radiation Oncology, 2013, 3, 16-25.	2.1	67
21	Real-Time Tumor Tracking in the Lung Using an Electromagnetic Tracking System. International Journal of Radiation Oncology Biology Physics, 2013, 86, 477-483.	0.8	70
22	A virtual phantom library for the quantification of deformable image registration uncertainties in patients with cancers of the head and neck. Medical Physics, 2013, 40, 111703.	3.0	41
23	A comparison of the dosimetric effects of intrafraction motion on stepâ€andâ€shoot, compensator, and helical tomotherapyâ€based IMRT. Journal of Applied Clinical Medical Physics, 2013, 14, 121-132.	1.9	6
24	Modeling Airflow Using Subject-Specific 4DCT-Based Deformable Volumetric Lung Models. International Journal of Biomedical Imaging, 2012, 2012, 1-10.	3.9	9
25	An experimental investigation into the effect of periodic motion on proton dosimetry using polymer gel dosimeters and a programmable motion platform. Physics in Medicine and Biology, 2012, 57, 649-663.	3.0	5
26	An evaluation of intrafraction motion of the prostate in the prone and supine positions using electromagnetic tracking. Radiotherapy and Oncology, 2011, 99, 37-43.	0.6	60
27	Analyzing the impact of intrafraction motion: Correlation of different dose metrics with changes in target D95%. Medical Physics, 2011, 38, 4505-4511.	3.0	21
28	Imageâ€guided bolus electron conformal therapy – a case study. Journal of Applied Clinical Medical Physics, 2011, 12, 68-75.	1.9	17
29	Expanding the use of realâ€ŧime electromagnetic tracking in radiation oncology. Journal of Applied Clinical Medical Physics, 2011, 12, 34-49.	1.9	41
30	Spatial correlation of proton irradiationâ€induced activity and dose in polymer gel phantoms for PET/CT delivery verification studies. Medical Physics, 2011, 38, 6483-6488.	3.0	6
31	Radiosurgery technology development and use. Journal of Radiosurgery and SBRT, 2011, 1, 21-29.	0.2	4
32	Visualization of 3D volumetric lung dynamics for real-time external beam lung radiotherapy. Studies in Health Technology and Informatics, 2011, 163, 567-73.	0.3	2
33	A Comparison of Soft-Tissue Implanted Markers and Bony Anatomy Alignments for Image-Guided Treatments of Head-and-Neck Cancers. International Journal of Radiation Oncology Biology Physics, 2010, 76, 767-774.	0.8	11
34	Stereotactic body radiation therapy: The report of AAPM Task Group 101. Medical Physics, 2010, 37, 4078-4101.	3.0	1,616
35	A computational method for estimating the dosimetric effect of intra-fraction motion on step-and-shoot IMRT and compensator plans. Physics in Medicine and Biology, 2010, 55, 4187-4202.	3.0	22
36	A GPU-based framework for modeling real-time 3D lung tumor conformal dosimetry with subject-specific lung tumor motion. Physics in Medicine and Biology, 2010, 55, 5137-5150.	3.0	8

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37	Megavoltage Computed Tomography Image-based Low-dose Rate Intracavitary Brachytherapy Planning for Cervical Carcinoma. Technology in Cancer Research and Treatment, 2009, 8, 123-129.	1.9	3
38	Modeling simulation and visualization of conformal 3D lung tumor dosimetry. Physics in Medicine and Biology, 2009, 54, 6165-6180.	3.0	10
39	Validation of a computational method for assessing the impact of intra-fraction motion on helical tomotherapy plans. Physics in Medicine and Biology, 2009, 54, 6611-6621.	3.0	9
40	Dosimetric Effect of Prostate Motion During Helical Tomotherapy. International Journal of Radiation Oncology Biology Physics, 2009, 74, 1134-1142.	0.8	33
41	Dosimetric effects of rotational output variation and x-ray target degradation on helical tomotherapy plans. Medical Physics, 2009, 36, 2881-2888.	3.0	17
42	Quality Assurance of Onboard Megavoltage Computed Tomography Imaging and Target Localization Systems for On- and Off-Line Image-Guided Radiotherapy. International Journal of Radiation Oncology Biology Physics, 2008, 71, S62-S65.	0.8	9
43	Evaluation of Image-Guidance Strategies in the Treatment of Localized Prostate Cancer. International Journal of Radiation Oncology Biology Physics, 2008, 70, 1151-1157.	0.8	104
44	Investigation of Accelerated Partial Breast Patient Alignment and Treatment With Helical Tomotherapy Unit. International Journal of Radiation Oncology Biology Physics, 2008, 70, 1272-1280.	0.8	26
45	Patient Dose From Megavoltage Computed Tomography Imaging. International Journal of Radiation Oncology Biology Physics, 2008, 70, 1579-1587.	0.8	87
46	Observations on Real-Time Prostate Gland Motion Using Electromagnetic Tracking. International Journal of Radiation Oncology Biology Physics, 2008, 71, 1084-1090.	0.8	339
47	Assessment of Parotid Gland Dose Changes During Head and Neck Cancer Radiotherapy Using Daily Megavoltage Computed Tomography and Deformable Image Registration. International Journal of Radiation Oncology Biology Physics, 2008, 71, 1563-1571.	0.8	180
48	Image-Guided Radiotherapy for Localized Prostate Cancer: Treating a Moving Target. Seminars in Radiation Oncology, 2008, 18, 58-66.	2.2	108
49	A Display Framework for Visualizing Real-Time 3D Lung Tumor Radiotherapy. Journal of Display Technology, 2008, 4, 473-482.	1.2	9
50	Evaluation of geometric changes of parotid glands during head and neck cancer radiotherapy using daily MVCT and automatic deformable registration. Radiotherapy and Oncology, 2008, 89, 81-88.	0.6	109
51	Real-Time Simulation of 4D Lung Tumor Radiotherapy Using a Breathing Model. Lecture Notes in Computer Science, 2008, 11, 710-717.	1.3	10
52	Correlation between dosimetric effect and intrafraction motion during prostate treatments delivered with helical tomotherapy. Physics in Medicine and Biology, 2008, 53, 7073-7086.	3.0	29
53	Megavoltage Computed Tomography Imaging. , 2008, , 27-35.		1
54	Evaluation of image-guidance protocols in the treatment of head and neck cancers. International Journal of Radiation Oncology Biology Physics, 2007, 67, 670-677.	0.8	131

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55	A model for predicting lung cancer response to therapy. International Journal of Radiation Oncology Biology Physics, 2007, 67, 601-609.	0.8	40
56	Implantation and Stability of Metallic Fiducials Within Pulmonary Lesions. International Journal of Radiation Oncology Biology Physics, 2007, 69, 777-785.	0.8	88
57	Optical Tracking Technology in Stereotactic Radiation Therapy. Medical Dosimetry, 2007, 32, 111-120.	0.9	44
58	Distributed Augmented Reality With 3-D Lung Dynamics—A Planning Tool Concept. IEEE Transactions on Information Technology in Biomedicine, 2007, 11, 40-46.	3.2	22
59	Characterization and use of EBT radiochromic film for IMRT dose verification. Medical Physics, 2006, 33, 4064-4072.	3.0	146
60	Visualization of tumor-influenced 3D lung dynamics. , 2006, , .		2
61	Deformable registration of the planning image (kVCT) and the daily images (MVCT) for adaptive radiation therapy. Physics in Medicine and Biology, 2006, 51, 4357-4374.	3.0	137
62	In response to Dr. Dar et al. International Journal of Radiation Oncology Biology Physics, 2006, 64, 328-329.	0.8	4
63	A technique for adaptive image-guided helical tomotherapy for lung cancer. International Journal of Radiation Oncology Biology Physics, 2006, 64, 1237-1244.	0.8	124
64	Evaluation of two tomotherapy-based techniques for the delivery of whole-breast intensity-modulated radiation therapy. International Journal of Radiation Oncology Biology Physics, 2006, 65, 284-290.	0.8	70
65	Optimal number of beams for stereotactic body radiotherapy of lung and liver lesions. International Journal of Radiation Oncology Biology Physics, 2006, 66, 906-912.	0.8	48
66	Evaluation of an infrared camera and X-ray system using implanted fiducials in patients with lung tumors for gated radiation therapy. International Journal of Radiation Oncology Biology Physics, 2006, 66, 568-575.	0.8	87
67	Daily variations in the position of the prostate bed in patients with prostate cancer receiving postoperative external beam radiation therapy. International Journal of Radiation Oncology Biology Physics, 2006, 66, 593-596.	0.8	37
68	Daily variations in delivered doses in patients treated with radiotherapy for localized prostate cancer. International Journal of Radiation Oncology Biology Physics, 2006, 66, 876-882.	0.8	132
69	Serial Therapy-Induced Changes in Tumor Shape in Cervical Cancer and Their Impact on Assessing Tumor Volume and Treatment Response. American Journal of Roentgenology, 2006, 187, 65-72.	2.2	64
70	Patient Positioning in Radiotherapy Using Optical-Guided 3D Ultrasound Techniques. , 2006, , 151-163.		1
71	Initial clinical experience with frameless radiosurgery for patients with intracranial metastases. International Journal of Radiation Oncology Biology Physics, 2005, 61, 1467-1472.	0.8	59
72	Intraprostatic fiducials for localization of the prostate gland: Monitoring intermarker distances during radiation therapy to test for marker stability. International Journal of Radiation Oncology Biology Physics, 2005, 62, 1291-1296.	0.8	149

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73	Initial experience with megavoltage (MV) CT guidance for daily prostate alignments. International Journal of Radiation Oncology Biology Physics, 2005, 62, 1517-1524.	0.8	148
74	Serial megavoltage CT imaging during external beam radiotherapy for non–small-cell lung cancer: Observations on tumor regression during treatment. International Journal of Radiation Oncology Biology Physics, 2005, 63, 1024-1028.	0.8	172
75	Optically Guided Patient Positioning Techniques. Seminars in Radiation Oncology, 2005, 15, 192-201.	2.2	74
76	Performance characterization of megavoltage computed tomography imaging on a helical tomotherapy unit. Medical Physics, 2005, 32, 2673-2681.	3.0	188
77	A geometrically based method of step and shoot stereotactic radiosurgery with a miniature multileaf collimator. Physics in Medicine and Biology, 2005, 50, 3263-3276.	3.0	10
78	Geometrically based optimization for extracranial radiosurgery. Physics in Medicine and Biology, 2004, 49, 987-996.	3.0	11
79	Effects of vessel geometry and catheter position on dose delivery in intracoronary brachytherapy. IEEE Transactions on Biomedical Engineering, 2003, 50, 1286-1295.	4.2	11
80	Ultrasound-guided extracranial radiosurgery. International Journal of Radiation Oncology Biology Physics, 2003, 55, 1092-1101.	0.8	59
81	A simple and reliable index for scoring rival stereotactic radiosurgery plans. International Journal of Radiation Oncology Biology Physics, 2003, 57, 1141-1149.	0.8	108
82	Does prone positioning reduce small bowel dose in pelvic radiation with intensity-modulated radiotherapy for gynecologic cancer?. International Journal of Radiation Oncology Biology Physics, 2003, 57, 230-238.	0.8	67
83	Protracted Radiotherapy Treatment Duration in Medulloblastoma. American Journal of Clinical Oncology: Cancer Clinical Trials, 2003, 26, 55-59.	1.3	28
84	Salvage retreatment after failure of radiosurgery in patients with arteriovenous malformations. Journal of Neurosurgery, 2003, 98, 337-341.	1.6	56
85	Estimating the actual dose delivered by intravascular coronary brachytherapy using geometrically correct 3D modeling. , 2003, , .		3
86	Stereotactic Radiosurgery with the Linac Scalpel. , 2003, , .		0
87	Fractionated Stereotactic Radiotherapy: A Short Review. Technology in Cancer Research and Treatment, 2002, 1, 153-172.	1.9	25
88	In vivo determination of extra-target doses received from serial tomotherapy. Radiotherapy and Oncology, 2002, 63, 217-222.	0.6	32
89	Commissioning and quality assurance of an optically guided three-dimensional ultrasound target localization system for radiotherapy. Medical Physics, 2002, 29, 1781-1788.	3.0	48
90	Low-Grade Gliomas: Answering One Question in a Myriad of New Questions. Journal of Clinical Oncology, 2002, 20, 2223-2224.	1.6	10

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91	Method and timing of tumor volume measurement for outcome prediction in cervical cancer using magnetic resonance imaging. International Journal of Radiation Oncology Biology Physics, 2002, 52, 14-22.	0.8	164
92	Optically guided intensity modulated radiotherapy. Radiotherapy and Oncology, 2001, 61, 33-44.	0.6	45
93	Radiosurgery using a stereotactic headframe system for irradiation of brain tumors in dogs. Journal of the American Veterinary Medical Association, 2001, 219, 1562-1567.	0.5	37
94	Ultrasonographic guidance for spinal extracranial radiosurgery: technique and application for metastatic spinal lesions. Neurosurgical Focus, 2001, 11, 1-6.	2.3	14
95	Initial clinical experience with frameless stereotactic radiosurgery: analysis of accuracy and feasibility. International Journal of Radiation Oncology Biology Physics, 2001, 51, 1152-1158.	0.8	93
96	Analysis of risk factors associated with radiosurgery for vestibular schwannoma. Journal of Neurosurgery, 2001, 95, 440-449.	1.6	184
97	Calibration of three-dimensional ultrasound images for image-guided radiation therapy. Physics in Medicine and Biology, 2001, 46, 559-577.	3.0	101
98	Isotropic beam bouquets for shaped beam linear accelerator radiosurgery. Physics in Medicine and Biology, 2001, 46, 2571-2586.	3.0	12
99	Calculation of cranial nerve complication probability for acoustic neuroma radiosurgery. International Journal of Radiation Oncology Biology Physics, 2000, 47, 597-602.	0.8	62
100	A high-precision system for conformal intracranial radiotherapy. International Journal of Radiation Oncology Biology Physics, 2000, 47, 1137-1143.	0.8	62
101	A geometrically based method for automated radiosurgery planning. International Journal of Radiation Oncology Biology Physics, 2000, 48, 1599-1611.	0.8	41
102	RTOG 90-05: the real conclusion. International Journal of Radiation Oncology Biology Physics, 2000, 47, 269-271.	0.8	21
103	Image localization for frameless stereotactic radiotherapy. International Journal of Radiation Oncology Biology Physics, 2000, 46, 1291-1299.	0.8	104
104	Stereotactic Radiosurgery. Surgical Oncology Clinics of North America, 2000, 9, 469-487.	1.5	6
105	Analytic characterization of linear accelerator radiosurgery dose distributions for fast optimization. Physics in Medicine and Biology, 1999, 44, 2777-2787.	3.0	11
106	The midline dose distribution for a three-field radiotherapy technique. Medical Dosimetry, 1999, 24, 91-98.	0.9	6
107	Linear accelerator radiosurgery for nonacoustic schwannomas. International Journal of Radiation Oncology Biology Physics, 1999, 43, 545-548.	0.8	72
108	Image registration of BANG® gel dose maps for quantitative dosimetry verification. International Journal of Radiation Oncology Biology Physics, 1999, 43, 1135-1141.	0.8	59

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109	Dosimetric characteristics of a double-focused miniature multileaf collimator. Medical Physics, 1999, 26, 729-733.	3.0	34
110	The radiobiology of radiosurgery and stereotactic radiotherapy. Medical Dosimetry, 1998, 23, 201-207.	0.9	22
111	Linac scalpel radiosurgery at the university of florida. Medical Dosimetry, 1998, 23, 177-185.	0.9	18
112	Potential clinical efficacy of intensity-modulated conformal therapy. International Journal of Radiation Oncology Biology Physics, 1998, 40, 483-495.	0.8	84
113	Optic-guided stereotactic radiotherapy. Medical Dosimetry, 1998, 23, 221-228.	0.9	36
114	IRLED-Based Patient Localization for Linac Radiosurgery. International Journal of Radiation Oncology Biology Physics, 1998, 41, 433-439.	0.8	39
115	Treatment Planning Optimization for Linear Accelerator Radiosurgery. International Journal of Radiation Oncology Biology Physics, 1998, 41, 183-197.	0.8	50
116	Preliminary experience with frameless stereotactic radiotherapy. International Journal of Radiation Oncology Biology Physics, 1998, 42, 591-599.	0.8	83
117	Inverse radiosurgery treatment planning through deconvolution and constrained optimization. Medical Physics, 1998, 25, 1850-1857.	3.0	6
118	Fractionated stereotactic radiotherapy for choroidal melanoma. Radiotherapy and Oncology, 1997, 45, 99.	0.6	0
119	Radiotherapy for pediatric brain tumors. Seminars in Pediatric Neurology, 1997, 4, 304-319.	2.0	13