

Sanford L Meeks

List of Publications by Year in descending order

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119
papers

7,266
citations

53794

45
h-index

56724

83
g-index

120
all docs

120
docs citations

120
times ranked

4855
citing authors

#	ARTICLE	IF	CITATIONS
1	Stereotactic body radiation therapy: The report of AAPM Task Group 101. <i>Medical Physics</i> , 2010, 37, 4078-4101.	3.0	1,616
2	Observations on Real-Time Prostate Gland Motion Using Electromagnetic Tracking. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008, 71, 1084-1090.	0.8	339
3	Performance characterization of megavoltage computed tomography imaging on a helical tomotherapy unit. <i>Medical Physics</i> , 2005, 32, 2673-2681.	3.0	188
4	Analysis of risk factors associated with radiosurgery for vestibular schwannoma. <i>Journal of Neurosurgery</i> , 2001, 95, 440-449.	1.6	184
5	Assessment of Parotid Gland Dose Changes During Head and Neck Cancer Radiotherapy Using Daily Megavoltage Computed Tomography and Deformable Image Registration. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008, 71, 1563-1571.	0.8	180
6	Serial megavoltage CT imaging during external beam radiotherapy for non-small-cell lung cancer: Observations on tumor regression during treatment. <i>International Journal of Radiation Oncology Biology Physics</i> , 2005, 63, 1024-1028.	0.8	172
7	Method and timing of tumor volume measurement for outcome prediction in cervical cancer using magnetic resonance imaging. <i>International Journal of Radiation Oncology Biology Physics</i> , 2002, 52, 14-22.	0.8	164
8	Intraprostatic fiducials for localization of the prostate gland: Monitoring intermarker distances during radiation therapy to test for marker stability. <i>International Journal of Radiation Oncology Biology Physics</i> , 2005, 62, 1291-1296.	0.8	149
9	Initial experience with megavoltage (MV) CT guidance for daily prostate alignments. <i>International Journal of Radiation Oncology Biology Physics</i> , 2005, 62, 1517-1524.	0.8	148
10	Characterization and use of EBT radiochromic film for IMRT dose verification. <i>Medical Physics</i> , 2006, 33, 4064-4072.	3.0	146
11	Deformable registration of the planning image (kVCT) and the daily images (MVCT) for adaptive radiation therapy. <i>Physics in Medicine and Biology</i> , 2006, 51, 4357-4374.	3.0	137
12	Daily variations in delivered doses in patients treated with radiotherapy for localized prostate cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2006, 66, 876-882.	0.8	132
13	Evaluation of image-guidance protocols in the treatment of head and neck cancers. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007, 67, 670-677.	0.8	131
14	A technique for adaptive image-guided helical tomotherapy for lung cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2006, 64, 1237-1244.	0.8	124
15	Evaluation of geometric changes of parotid glands during head and neck cancer radiotherapy using daily MVCT and automatic deformable registration. <i>Radiotherapy and Oncology</i> , 2008, 89, 81-88.	0.6	109
16	A simple and reliable index for scoring rival stereotactic radiosurgery plans. <i>International Journal of Radiation Oncology Biology Physics</i> , 2003, 57, 1141-1149.	0.8	108
17	Image-Guided Radiotherapy for Localized Prostate Cancer: Treating a Moving Target. <i>Seminars in Radiation Oncology</i> , 2008, 18, 58-66.	2.2	108
18	Image localization for frameless stereotactic radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2000, 46, 1291-1299.	0.8	104

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19	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
20	Calibration of three-dimensional ultrasound images for image-guided radiation therapy. Physics in Medicine and Biology, 2001, 46, 559-577.	3.0	101
21	AAPM TG 191: Clinical use of luminescent dosimeters: TLDs and OSLDs. Medical Physics, 2020, 47, e19-e51.	3.0	97
22	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
23	Implantation and Stability of Metallic Fiducials Within Pulmonary Lesions. International Journal of Radiation Oncology Biology Physics, 2007, 69, 777-785.	0.8	88
24	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
25	Patient Dose From Megavoltage Computed Tomography Imaging. International Journal of Radiation Oncology Biology Physics, 2008, 70, 1579-1587.	0.8	87
26	Potential clinical efficacy of intensity-modulated conformal therapy. International Journal of Radiation Oncology Biology Physics, 1998, 40, 483-495.	0.8	84
27	Preliminary experience with frameless stereotactic radiotherapy. International Journal of Radiation Oncology Biology Physics, 1998, 42, 591-599.	0.8	83
28	Optically Guided Patient Positioning Techniques. Seminars in Radiation Oncology, 2005, 15, 192-201.	2.2	74
29	Linear accelerator radiosurgery for nonacoustic schwannomas. International Journal of Radiation Oncology Biology Physics, 1999, 43, 545-548.	0.8	72
30	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
31	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
32	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
33	Clinical evaluation of interfractional variations for whole breast radiotherapy using 3-dimensional surface imaging. Practical Radiation Oncology, 2013, 3, 16-25.	2.1	67
34	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
35	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
36	Calculation of cranial nerve complication probability for acoustic neuroma radiosurgery. International Journal of Radiation Oncology Biology Physics, 2000, 47, 597-602.	0.8	62

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37	A high-precision system for conformal intracranial radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2000, 47, 1137-1143.	0.8	62
38	An evaluation of intrafraction motion of the prostate in the prone and supine positions using electromagnetic tracking. <i>Radiotherapy and Oncology</i> , 2011, 99, 37-43.	0.6	60
39	Image registration of BANGÂ® gel dose maps for quantitative dosimetry verification. <i>International Journal of Radiation Oncology Biology Physics</i> , 1999, 43, 1135-1141.	0.8	59
40	Ultrasound-guided extracranial radiosurgery. <i>International Journal of Radiation Oncology Biology Physics</i> , 2003, 55, 1092-1101.	0.8	59
41	Initial clinical experience with frameless radiosurgery for patients with intracranial metastases. <i>International Journal of Radiation Oncology Biology Physics</i> , 2005, 61, 1467-1472.	0.8	59
42	Salvage retreatment after failure of radiosurgery in patients with arteriovenous malformations. <i>Journal of Neurosurgery</i> , 2003, 98, 337-341.	1.6	56
43	Treatment Planning Optimization for Linear Accelerator Radiosurgery. <i>International Journal of Radiation Oncology Biology Physics</i> , 1998, 41, 183-197.	0.8	50
44	Commissioning and quality assurance of an optically guided three-dimensional ultrasound target localization system for radiotherapy. <i>Medical Physics</i> , 2002, 29, 1781-1788.	3.0	48
45	Optimal number of beams for stereotactic body radiotherapy of lung and liver lesions. <i>International Journal of Radiation Oncology Biology Physics</i> , 2006, 66, 906-912.	0.8	48
46	Optically guided intensity modulated radiotherapy. <i>Radiotherapy and Oncology</i> , 2001, 61, 33-44.	0.6	45
47	Optical Tracking Technology in Stereotactic Radiation Therapy. <i>Medical Dosimetry</i> , 2007, 32, 111-120.	0.9	44
48	A geometrically based method for automated radiosurgery planning. <i>International Journal of Radiation Oncology Biology Physics</i> , 2000, 48, 1599-1611.	0.8	41
49	Expanding the use of real-time electromagnetic tracking in radiation oncology. <i>Journal of Applied Clinical Medical Physics</i> , 2011, 12, 34-49.	1.9	41
50	A virtual phantom library for the quantification of deformable image registration uncertainties in patients with cancers of the head and neck. <i>Medical Physics</i> , 2013, 40, 111703.	3.0	41
51	A model for predicting lung cancer response to therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007, 67, 601-609.	0.8	40
52	IRLED-Based Patient Localization for Linac Radiosurgery. <i>International Journal of Radiation Oncology Biology Physics</i> , 1998, 41, 433-439.	0.8	39
53	Radiosurgery using a stereotactic headframe system for irradiation of brain tumors in dogs. <i>Journal of the American Veterinary Medical Association</i> , 2001, 219, 1562-1567.	0.5	37
54	Daily variations in the position of the prostate bed in patients with prostate cancer receiving postoperative external beam radiation therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2006, 66, 593-596.	0.8	37

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55	Optic-guided stereotactic radiotherapy. <i>Medical Dosimetry</i> , 1998, 23, 221-228.	0.9	36
56	Dosimetric characteristics of a double-focused miniature multileaf collimator. <i>Medical Physics</i> , 1999, 26, 729-733.	3.0	34
57	Dosimetric Effect of Prostate Motion During Helical Tomotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2009, 74, 1134-1142.	0.8	33
58	In vivo determination of extra-target doses received from serial tomotherapy. <i>Radiotherapy and Oncology</i> , 2002, 63, 217-222.	0.6	32
59	Correlation between dosimetric effect and intrafraction motion during prostate treatments delivered with helical tomotherapy. <i>Physics in Medicine and Biology</i> , 2008, 53, 7073-7086.	3.0	29
60	Protracted Radiotherapy Treatment Duration in Medulloblastoma. <i>American Journal of Clinical Oncology: Cancer Clinical Trials</i> , 2003, 26, 55-59.	1.3	28
61	Investigation of Accelerated Partial Breast Patient Alignment and Treatment With Helical Tomotherapy Unit. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008, 70, 1272-1280.	0.8	26
62	Fractionated Stereotactic Radiotherapy: A Short Review. <i>Technology in Cancer Research and Treatment</i> , 2002, 1, 153-172.	1.9	25
63	The radiobiology of radiosurgery and stereotactic radiotherapy. <i>Medical Dosimetry</i> , 1998, 23, 201-207.	0.9	22
64	Distributed Augmented Reality With 3-D Lung Dynamicsâ€”A Planning Tool Concept. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2007, 11, 40-46.	3.2	22
65	A computational method for estimating the dosimetric effect of intra-fraction motion on step-and-shoot IMRT and compensator plans. <i>Physics in Medicine and Biology</i> , 2010, 55, 4187-4202.	3.0	22
66	RTOG 90-05: the real conclusion. <i>International Journal of Radiation Oncology Biology Physics</i> , 2000, 47, 269-271.	0.8	21
67	Analyzing the impact of intrafraction motion: Correlation of different dose metrics with changes in target D95%. <i>Medical Physics</i> , 2011, 38, 4505-4511.	3.0	21
68	Linac scalpel radiosurgery at the university of florida. <i>Medical Dosimetry</i> , 1998, 23, 177-185.	0.9	18
69	Dosimetric effects of rotational output variation and x-ray target degradation on helical tomotherapy plans. <i>Medical Physics</i> , 2009, 36, 2881-2888.	3.0	17
70	Imageâ€”guided bolus electron conformal therapy â€” a case study. <i>Journal of Applied Clinical Medical Physics</i> , 2011, 12, 68-75.	1.9	17
71	Ultrasonographic guidance for spinal extracranial radiosurgery: technique and application for metastatic spinal lesions. <i>Neurosurgical Focus</i> , 2001, 11, 1-6.	2.3	14
72	The Mobius <sc>AIRO</sc> mobile <sc>CT</sc> for imageâ€”guided proton therapy: Characterization & commissioning. <i>Journal of Applied Clinical Medical Physics</i> , 2017, 18, 130-136.	1.9	14

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73	Radiotherapy for pediatric brain tumors. <i>Seminars in Pediatric Neurology</i> , 1997, 4, 304-319.	2.0	13
74	4D-CT Lung registration using anatomy-based multi-level multi-resolution optical flow analysis and thin-plate splines. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2014, 9, 875-889.	2.8	13
75	Isotropic beam bouquets for shaped beam linear accelerator radiosurgery. <i>Physics in Medicine and Biology</i> , 2001, 46, 2571-2586.	3.0	12
76	Analytic characterization of linear accelerator radiosurgery dose distributions for fast optimization. <i>Physics in Medicine and Biology</i> , 1999, 44, 2777-2787.	3.0	11
77	Effects of vessel geometry and catheter position on dose delivery in intracoronary brachytherapy. <i>IEEE Transactions on Biomedical Engineering</i> , 2003, 50, 1286-1295.	4.2	11
78	Geometrically based optimization for extracranial radiosurgery. <i>Physics in Medicine and Biology</i> , 2004, 49, 987-996.	3.0	11
79	A Comparison of Soft-Tissue Implanted Markers and Bony Anatomy Alignments for Image-Guided Treatments of Head-and-Neck Cancers. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010, 76, 767-774.	0.8	11
80	Low-Grade Gliomas: Answering One Question in a Myriad of New Questions. <i>Journal of Clinical Oncology</i> , 2002, 20, 2223-2224.	1.6	10
81	A geometrically based method of step and shoot stereotactic radiosurgery with a miniature multileaf collimator. <i>Physics in Medicine and Biology</i> , 2005, 50, 3263-3276.	3.0	10
82	Real-Time Simulation of 4D Lung Tumor Radiotherapy Using a Breathing Model. <i>Lecture Notes in Computer Science</i> , 2008, 11, 710-717.	1.3	10
83	Modeling simulation and visualization of conformal 3D lung tumor dosimetry. <i>Physics in Medicine and Biology</i> , 2009, 54, 6165-6180.	3.0	10
84	Commissioning an in-room mobile CT for adaptive proton therapy with a compact proton system. <i>Journal of Applied Clinical Medical Physics</i> , 2018, 19, 149-158.	1.9	10
85	Practical Considerations for Single Isocenter LINAC Radiosurgery of Multiple Brain Metastases. <i>Practical Radiation Oncology</i> , 2022, 12, 195-199.	2.1	10
86	Quality Assurance of Onboard Megavoltage Computed Tomography Imaging and Target Localization Systems for On- and Off-Line Image-Guided Radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008, 71, S62-S65.	0.8	9
87	A Display Framework for Visualizing Real-Time 3D Lung Tumor Radiotherapy. <i>Journal of Display Technology</i> , 2008, 4, 473-482.	1.2	9
88	Validation of a computational method for assessing the impact of intra-fraction motion on helical tomotherapy plans. <i>Physics in Medicine and Biology</i> , 2009, 54, 6611-6621.	3.0	9
89	Modeling Airflow Using Subject-Specific 4DCT-Based Deformable Volumetric Lung Models. <i>International Journal of Biomedical Imaging</i> , 2012, 2012, 1-10.	3.9	9
90	Technical Report: Diagnostic Scan-Based Planning (DSBP), A Method to Improve the Speed and Safety of Radiation Therapy for the Treatment of Critically Ill Patients. <i>Practical Radiation Oncology</i> , 2020, 10, e425-e431.	2.1	9

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91	A GPU-based framework for modeling real-time 3D lung tumor conformal dosimetry with subject-specific lung tumor motion. <i>Physics in Medicine and Biology</i> , 2010, 55, 5137-5150.	3.0	8
92	Orthogonal image pairs coupled with OSMS for noncoplanar beam angle, intracranial, single-isocenter, SRS treatments with multiple targets on the Varian Edge radiosurgery system. <i>Advances in Radiation Oncology</i> , 2017, 2, 494-502.	1.2	8
93	Effect of Proposed Episode-Based Payment Models on Advanced Radiotherapy Procedures. <i>JCO Oncology Practice</i> , 2021, 17, e1943-e1948.	2.9	8
94	Inverse radiosurgery treatment planning through deconvolution and constrained optimization. <i>Medical Physics</i> , 1998, 25, 1850-1857.	3.0	6
95	The midline dose distribution for a three-field radiotherapy technique. <i>Medical Dosimetry</i> , 1999, 24, 91-98.	0.9	6
96	Stereotactic Radiosurgery. <i>Surgical Oncology Clinics of North America</i> , 2000, 9, 469-487.	1.5	6
97	Spatial correlation of proton irradiation-induced activity and dose in polymer gel phantoms for PET/CT delivery verification studies. <i>Medical Physics</i> , 2011, 38, 6483-6488.	3.0	6
98	A comparison of the dosimetric effects of intrafraction motion on step-and-shoot, compensator, and helical tomotherapy-based IMRT. <i>Journal of Applied Clinical Medical Physics</i> , 2013, 14, 121-132.	1.9	6
99	Variability in commercially available deformable image registration: A multi-institution analysis using virtual head and neck phantoms. <i>Journal of Applied Clinical Medical Physics</i> , 2021, 22, 89-96.	1.9	6
100	An experimental investigation into the effect of periodic motion on proton dosimetry using polymer gel dosimeters and a programmable motion platform. <i>Physics in Medicine and Biology</i> , 2012, 57, 649-663.	3.0	5
101	A margin-based analysis of the dosimetric impact of motion on step-and-shoot IMRT lung plans. <i>Radiation Oncology</i> , 2014, 9, 46.	2.7	5
102	Impact of Radiation Oncology Alternative Payment Model on Community Cancer Centers. <i>JCO Oncology Practice</i> , 2021, 17, e1949-e1957.	2.9	5
103	In response to Dr. Dar et al. <i>International Journal of Radiation Oncology Biology Physics</i> , 2006, 64, 328-329.	0.8	4
104	Effectiveness of base-of-skull immobilization system in a compact proton therapy setting. <i>Journal of Applied Clinical Medical Physics</i> , 2018, 19, 261-267.	1.9	4
105	Radiosurgery technology development and use. <i>Journal of Radiosurgery and SBRT</i> , 2011, 1, 21-29.	0.2	4
106	Estimating the actual dose delivered by intravascular coronary brachytherapy using geometrically correct 3D modeling. , 2003, , .		3
107	Megavoltage Computed Tomography Image-based Low-dose Rate Intracavitary Brachytherapy Planning for Cervical Carcinoma. <i>Technology in Cancer Research and Treatment</i> , 2009, 8, 123-129.	1.9	3
108	An optimized approach for robust spot placement in proton pencil beam scanning. <i>Physics in Medicine and Biology</i> , 2019, 64, 235016.	3.0	3

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109	Visualization of tumor-influenced 3D lung dynamics. , 2006, , .		2
110	Evaluation of cine imaging during multileaf collimator and gantry motion for real-time magnetic resonance guided radiation therapy. Journal of Applied Clinical Medical Physics, 2020, 21, 178-187.	1.9	2
111	Research productivity of radiation therapy physics faculty in the United States. Journal of Applied Clinical Medical Physics, 2021, 22, 185-195.	1.9	2
112	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
113	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
114	Megavoltage Computed Tomography Imaging. , 2008, , 27-35.		1
115	Patient Positioning in Radiotherapy Using Optical-Guided 3D Ultrasound Techniques. , 2006, , 151-163.		1
116	Fractionated stereotactic radiotherapy for choroidal melanoma. Radiotherapy and Oncology, 1997, 45, 99.	0.6	0
117	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
118	Stereotactic Radiosurgery with the Linac Scalpel. , 2003, , .		0
119	Dosimetric Comparison of Various Spot Placement Techniques in Proton Pencil Beam Scanning. International Journal of Particle Therapy, 2022, 9, 54-63.	1.8	0