

Jan-Jakob Sonke

List of Publications by Citations

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228
papers

8,256
citations

49
h-index

83
g-index

245
ext. papers

9,560
ext. citations

2.3
avg, IF

5.98
L-index

#	Paper	IF	Citations
228	Respiratory correlated cone beam CT. <i>Medical Physics</i> , 2005 , 32, 1176-86	4.4	483
227	Adaptive radiotherapy for prostate cancer using kilovoltage cone-beam computed tomography: first clinical results. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008 , 70, 75-82	4	346
226	Mid-ventilation CT scan construction from four-dimensional respiration-correlated CT scans for radiotherapy planning of lung cancer patients. <i>International Journal of Radiation Oncology Biology Physics</i> , 2006 , 65, 1560-71	4	219
225	Frameless stereotactic body radiotherapy for lung cancer using four-dimensional cone beam CT guidance. <i>International Journal of Radiation Oncology Biology Physics</i> , 2009 , 74, 567-74	4	217
224	Variability of four-dimensional computed tomography patient models. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008 , 70, 590-8	4	204
223	Comparison of different strategies to use four-dimensional computed tomography in treatment planning for lung cancer patients. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008 , 70, 1229-38	4	203
222	The PET-boost randomised phase II dose-escalation trial in non-small cell lung cancer. <i>Radiotherapy and Oncology</i> , 2012 , 104, 67-71	5.3	177
221	Quality assurance for image-guided radiation therapy utilizing CT-based technologies: a report of the AAPM TG-179. <i>Medical Physics</i> , 2012 , 39, 1946-63	4.4	174
220	Accurate two-dimensional IMRT verification using a back-projection EPID dosimetry method. <i>Medical Physics</i> , 2006 , 33, 259-73	4.4	165
219	Automatic prostate localization on cone-beam CT scans for high precision image-guided radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2005 , 63, 975-84	4	165
218	A collaborative analysis of stereotactic lung radiotherapy outcomes for early-stage non-small-cell lung cancer using daily online cone-beam computed tomography image-guided radiotherapy. <i>Journal of Thoracic Oncology</i> , 2012 , 7, 1382-93	8.9	162
217	Catching errors with in vivo EPID dosimetry. <i>Medical Physics</i> , 2010 , 37, 2638-44	4.4	159
216	Adaptive radiotherapy for lung cancer. <i>Seminars in Radiation Oncology</i> , 2010 , 20, 94-106	5.5	145
215	3D Dosimetric verification of volumetric-modulated arc therapy by portal dosimetry. <i>Radiotherapy and Oncology</i> , 2010 , 94, 181-7	5.3	142
214	Dose-response and ghosting effects of an amorphous silicon electronic portal imaging device. <i>Medical Physics</i> , 2004 , 31, 285-95	4.4	133
213	Setup uncertainties of anatomical sub-regions in head-and-neck cancer patients after offline CBCT guidance. <i>International Journal of Radiation Oncology Biology Physics</i> , 2009 , 73, 1566-73	4	131
212	Quantifying interfraction and intrafraction tumor motion in lung stereotactic body radiotherapy using respiration-correlated cone beam computed tomography. <i>International Journal of Radiation Oncology Biology Physics</i> , 2009 , 75, 688-95	4	129

211	A fast algorithm for gamma evaluation in 3D. <i>Medical Physics</i> , 2007 , 34, 1647-54	4.4	117
210	Inter- and intrafraction variability in liver position in non-breath-hold stereotactic body radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2009 , 75, 302-8	4	114
209	A simple backprojection algorithm for 3D in vivo EPID dosimetry of IMRT treatments. <i>Medical Physics</i> , 2009 , 36, 3310-21	4.4	114
208	Radiation pneumonitis in patients treated for malignant pulmonary lesions with hypofractionated radiation therapy. <i>Radiotherapy and Oncology</i> , 2009 , 91, 307-13	5.3	114
207	Clinical results of image-guided deep inspiration breath hold breast irradiation. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010 , 78, 1345-51	4	107
206	Kilo-voltage cone-beam computed tomography setup measurements for lung cancer patients; first clinical results and comparison with electronic portal-imaging device. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007 , 68, 555-61	4	107
205	Dose-response relationship with clinical outcome for lung stereotactic body radiotherapy (SBRT) delivered via online image guidance. <i>Radiotherapy and Oncology</i> , 2014 , 110, 499-504	5.3	104
204	On-the-fly motion-compensated cone-beam CT using an a priori model of the respiratory motion. <i>Medical Physics</i> , 2009 , 36, 2283-96	4.4	102
203	Reconstruction of a time-averaged midposition CT scan for radiotherapy planning of lung cancer patients using deformable registration. <i>Medical Physics</i> , 2008 , 35, 3998-4011	4.4	102
202	Replacing pretreatment verification with in vivo EPID dosimetry for prostate IMRT. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007 , 67, 1568-77	4	92
201	Magnetic resonance-guided adaptive radiotherapy: a solution to the future. <i>Seminars in Radiation Oncology</i> , 2014 , 24, 227-32	5.5	91
200	Interfraction and intrafraction changes in amplitude of breathing motion in stereotactic liver radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010 , 77, 918-25	4	87
199	Breast patient setup error assessment: comparison of electronic portal image devices and cone-beam computed tomography matching results. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010 , 78, 1235-43	4	84
198	Intra thoracic anatomical changes in lung cancer patients during the course of radiotherapy. <i>Radiotherapy and Oncology</i> , 2014 , 113, 392-7	5.3	78
197	Dose to heart substructures is associated with non-cancer death after SBRT in stage I-II NSCLC patients. <i>Radiotherapy and Oncology</i> , 2017 , 123, 370-375	5.3	77
196	Is there a lower limit of pretreatment pulmonary function for safe and effective stereotactic body radiotherapy for early-stage non-small cell lung cancer?. <i>Journal of Thoracic Oncology</i> , 2012 , 7, 542-51	8.9	77
195	Adaptive and innovative Radiation Treatment FOR improving Cancer treatment outcome (ARTFORCE); a randomized controlled phase II trial for individualized treatment of head and neck cancer. <i>BMC Cancer</i> , 2013 , 13, 84	4.8	74
194	The long-term stability of amorphous silicon flat panel imaging devices for dosimetry purposes. <i>Medical Physics</i> , 2004 , 31, 2989-95	4.4	74

193	The influence of a dietary protocol on cone beam CT-guided radiotherapy for prostate cancer patients. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008 , 71, 1279-86	4	73
192	Clinical experience with EPID dosimetry for prostate IMRT pre-treatment dose verification. <i>Medical Physics</i> , 2006 , 33, 3921-30	4.4	65
191	3D in vivo dose verification of entire hypo-fractionated IMRT treatments using an EPID and cone-beam CT. <i>Radiotherapy and Oncology</i> , 2008 , 86, 35-42	5.3	64
190	Assessment of set-up variability during deep inspiration breath hold radiotherapy for breast cancer patients by 3D-surface imaging. <i>Radiotherapy and Oncology</i> , 2013 , 106, 225-30	5.3	62
189	Adaptive Radiotherapy for Anatomical Changes. <i>Seminars in Radiation Oncology</i> , 2019 , 29, 245-257	5.5	60
188	Acute esophagus toxicity in lung cancer patients after intensity modulated radiation therapy and concurrent chemotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012 , 84, e223-8	4	56
187	Target volume shape variation during hypo-fractionated preoperative irradiation of rectal cancer patients. <i>Radiotherapy and Oncology</i> , 2009 , 92, 202-9	5.3	55
186	Comparison of ghosting effects for three commercial a-Si EPIDs. <i>Medical Physics</i> , 2006 , 33, 2448-51	4.4	55
185	Four-dimensional cone beam CT reconstruction and enhancement using a temporal nonlocal means method. <i>Medical Physics</i> , 2012 , 39, 5592-602	4.4	53
184	Accuracy evaluation of a 3-dimensional surface imaging system for guidance in deep-inspiration breath-hold radiation therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013 , 85, 536-42	4.2	51
183	Mid-ventilation based PTV margins in Stereotactic Body Radiotherapy (SBRT): a clinical evaluation. <i>Radiotherapy and Oncology</i> , 2014 , 110, 511-6	5.3	50
182	Effects of setup errors and shape changes on breast radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2011 , 79, 1557-64	4	50
181	In aqua vivo EPID dosimetry. <i>Medical Physics</i> , 2012 , 39, 367-77	4.4	50
180	Radiation pneumonitis after hypofractionated radiotherapy: evaluation of the LQ(L) model and different dose parameters. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010 , 77, 1596-603	4	50
179	Deformable image registration for adaptive radiation therapy of head and neck cancer: accuracy and precision in the presence of tumor changes. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014 , 90, 680-7	4	48
178	Quantification of the variability of diaphragm motion and implications for treatment margin construction. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012 , 82, e399-407	4	44
177	Modeling local control after hypofractionated stereotactic body radiation therapy for stage I non-small cell lung cancer: a report from the Elekta collaborative lung research group. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012 , 84, e379-84	4	43
176	The impact of margin reduction on outcome and toxicity in head and neck cancer patients treated with image-guided volumetric modulated arc therapy (VMAT). <i>Radiotherapy and Oncology</i> , 2019 , 130, 25-31	5.3	42

175	Severe late esophagus toxicity in NSCLC patients treated with IMRT and concurrent chemotherapy. <i>Radiotherapy and Oncology</i> , 2013 , 108, 337-41	5:3	42
174	Effects of respiration-induced density variations on dose distributions in radiotherapy of lung cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2009 , 74, 1266-75	4	41
173	Strategies for online organ motion correction for intensity-modulated radiotherapy of prostate cancer: prostate, rectum, and bladder dose effects. <i>International Journal of Radiation Oncology Biology Physics</i> , 2009 , 75, 1254-60	4	41
172	Lack of a dose-effect relationship for pulmonary function changes after stereotactic body radiation therapy for early-stage non-small cell lung cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013 , 85, 1074-81	4	39
171	Relating acute esophagitis to radiotherapy dose using FDG-PET in concurrent chemo-radiotherapy for locally advanced non-small cell lung cancer. <i>Radiotherapy and Oncology</i> , 2013 , 106, 118-23	5:3	37
170	Correction strategies to manage deformations in head-and-neck radiotherapy. <i>Radiotherapy and Oncology</i> , 2010 , 94, 199-205	5:3	37
169	First clinical experience with a multiple region of interest registration and correction method in radiotherapy of head-and-neck cancer patients. <i>Radiotherapy and Oncology</i> , 2010 , 94, 213-7	5:3	37
168	Target volume shape variation during irradiation of rectal cancer patients in supine position: comparison with prone position. <i>Radiotherapy and Oncology</i> , 2009 , 93, 285-92	5:3	36
167	Strategy for online correction of rotational organ motion for intensity-modulated radiotherapy of prostate cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007 , 69, 1608-17	4	36
166	Feasibility of MRI-based reference images for image-guided radiotherapy of the pelvis with either cone-beam computed tomography or planar localization images. <i>Acta Oncologica</i> , 2015 , 54, 889-95	3:2	35
165	Effects of anatomical changes on pencil beam scanning proton plans in locally advanced NSCLC patients. <i>Radiotherapy and Oncology</i> , 2016 , 120, 286-92	5:3	35
164	Breast-conserving therapy: radiotherapy margins for breast tumor bed boost. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008 , 72, 941-8	4	35
163	Repeat CT assessed CTV variation and PTV margins for short- and long-course pre-operative RT of rectal cancer. <i>Radiotherapy and Oncology</i> , 2012 , 102, 399-405	5:3	34
162	Tumor Trailing for Liver SBRT on the MR-Linac. <i>International Journal of Radiation Oncology Biology Physics</i> , 2019 , 103, 468-478	4	33
161	Head and Neck Margin Reduction With Adaptive Radiation Therapy: Robustness of Treatment Plans Against Anatomy Changes. <i>International Journal of Radiation Oncology Biology Physics</i> , 2016 , 96, 653-60	4	32
160	Comparative study of respiratory motion correction techniques in cone-beam computed tomography. <i>Radiotherapy and Oncology</i> , 2011 , 100, 356-9	5:3	32
159	A novel method for megavoltage scatter correction in cone-beam CT acquired concurrent with rotational irradiation. <i>Radiotherapy and Oncology</i> , 2011 , 100, 365-9	5:3	32
158	The acute and late toxicity results of a randomized phase II dose-escalation trial in non-small cell lung cancer (PET-boost trial). <i>Radiotherapy and Oncology</i> , 2019 , 131, 166-173	5:3	31

157	Differential motion between mediastinal lymph nodes and primary tumor in radically irradiated lung cancer patients. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014 , 90, 959-66	4	30
156	Prognostic parameters for acute esophagus toxicity in intensity modulated radiotherapy and concurrent chemotherapy for locally advanced non-small cell lung cancer. <i>Radiotherapy and Oncology</i> , 2013 , 107, 392-7	5.3	30
155	Challenges of radiotherapy: report on the 4D treatment planning workshop 2013. <i>Physica Medica</i> , 2014 , 30, 809-15	2.7	29
154	Image-guided radiotherapy for left-sided breast cancer patients: geometrical uncertainty of the heart. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012 , 82, e647-55	4	29
153	Anatomy changes in radiotherapy detected using portal imaging. <i>Radiotherapy and Oncology</i> , 2006 , 79, 211-7	5.3	29
152	Image-guided radiotherapy for breast cancer patients: surgical clips as surrogate for breast excision cavity. <i>International Journal of Radiation Oncology Biology Physics</i> , 2011 , 81, e187-95	4	27
151	Exploring breathing pattern irregularity with projection-based method. <i>Medical Physics</i> , 2006 , 33, 2491-94.4	4.4	27
150	Modeling the Cellular Response of Lung Cancer to Radiation Therapy for a Broad Range of Fractionation Schedules. <i>Clinical Cancer Research</i> , 2017 , 23, 5469-5479	12.9	26
149	Recurrent inference machines for reconstructing heterogeneous MRI data. <i>Medical Image Analysis</i> , 2019 , 53, 64-78	15.4	26
148	Lungtech, a phase II EORTC trial of SBRT for centrally located lung tumours - a clinical physics perspective. <i>Radiation Oncology</i> , 2016 , 11, 7	4.2	26
147	Differential analysis of local and regional failure in locally advanced non-small cell lung cancer patients treated with concurrent chemoradiotherapy. <i>Radiotherapy and Oncology</i> , 2016 , 118, 447-52	5.3	26
146	Local dose-effect relations for lung perfusion post stereotactic body radiotherapy. <i>Radiotherapy and Oncology</i> , 2013 , 107, 398-402	5.3	26
145	Simplifying EPID dosimetry for IMRT treatment verification. <i>Medical Physics</i> , 2011 , 38, 983-92	4.4	26
144	Validation of High-Risk Computed Tomography Features for Detection of Local Recurrence After Stereotactic Body Radiation Therapy for Early-Stage Non-Small Cell Lung Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2016 , 96, 134-41	4	25
143	Target delineation variability and corresponding margins of peripheral early stage NSCLC treated with stereotactic body radiotherapy. <i>Radiotherapy and Oncology</i> , 2015 , 114, 361-6	5.3	24
142	Adaptive radiotherapy with an average anatomy model: evaluation and quantification of residual deformations in head and neck cancer patients. <i>Radiotherapy and Oncology</i> , 2013 , 109, 463-8	5.3	24
141	Registration accuracy and image quality of time averaged mid-position CT scans for liver SBRT. <i>Radiotherapy and Oncology</i> , 2013 , 109, 404-8	5.3	24
140	Heart dose associated with overall survival in locally advanced NSCLC patients treated with hypofractionated chemoradiotherapy. <i>Radiotherapy and Oncology</i> , 2017 , 125, 62-65	5.3	23

139	A Self-Sorting Coronal 4D-MRI Method for Daily Image Guidance of Liver Lesions on an MR-LINAC. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018 , 102, 875-884	4	22
138	Leaf trajectory verification during dynamic intensity modulated radiotherapy using an amorphous silicon flat panel imager. <i>Medical Physics</i> , 2004 , 31, 389-95	4.4	22
137	Prediction of Early Death in Patients with Early-Stage NSCLC-Can We Select Patients without a Potential Benefit of SBRT as a Curative Treatment Approach?. <i>Journal of Thoracic Oncology</i> , 2016 , 11, 1132-9	8.9	22
136	Optimal combination of anti-scatter grids and software correction for CBCT imaging. <i>Medical Physics</i> , 2017 , 44, 4437-4451	4.4	21
135	Adaptive radiotherapy for long course neo-adjuvant treatment of rectal cancer. <i>Radiotherapy and Oncology</i> , 2012 , 103, 353-9	5.3	21
134	Dose-effect analysis of radiation induced rib fractures after thoracic SBRT. <i>Radiotherapy and Oncology</i> , 2017 , 123, 176-181	5.3	20
133	Volume changes in soft tissue sarcomas during preoperative radiotherapy of extremities evaluated using cone-beam CT. <i>Journal of Radiation Oncology</i> , 2013 , 2, 55-62	0.7	20
132	Focal spot motion of linear accelerators and its effect on portal image analysis. <i>Medical Physics</i> , 2003 , 30, 1067-75	4.4	20
131	Magnetic Resonance-based Response Assessment and Dose Adaptation in Human Papilloma Virus Positive Tumors of the Oropharynx treated with Radiotherapy (MR-ADAPTOR): An R-IDEAL stage 2a-2b/Bayesian phase II trial. <i>Clinical and Translational Radiation Oncology</i> , 2018 , 13, 19-23	4.6	20
130	Alpha/beta ratio for normal lung tissue as estimated from lung cancer patients treated with stereotactic body and conventionally fractionated radiation therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014 , 88, 224-8	4	19
129	Required target margins for image-guided lung SBRT: Assessment of target position intrafraction and correction residuals. <i>Practical Radiation Oncology</i> , 2013 , 3, 67-73	2.8	19
128	3D surface imaging for monitoring intrafraction motion in frameless stereotactic body radiotherapy of lung cancer. <i>Radiotherapy and Oncology</i> , 2012 , 105, 155-60	5.3	19
127	Validation of deformable registration in head and neck cancer using analysis of variance. <i>Medical Physics</i> , 2012 , 39, 6879-84	4.4	19
126	Tumour delineation in oesophageal cancer - A prospective study of delineation in PET and CT with and without endoscopically placed clip markers. <i>Radiotherapy and Oncology</i> , 2015 , 116, 269-75	5.3	18
125	Robust, independent and relevant prognostic 18F-fluorodeoxyglucose positron emission tomography radiomics features in non-small cell lung cancer: Are there any?. <i>PLoS ONE</i> , 2020 , 15, e0228793	2.7	18
124	Residual seminal vesicle displacement in marker-based image-guided radiotherapy for prostate cancer and the impact on margin design. <i>International Journal of Radiation Oncology Biology Physics</i> , 2011 , 80, 590-6	4	18
123	Retrospective self-sorted 4D-MRI for the liver. <i>Radiotherapy and Oncology</i> , 2018 , 127, 474-480	5.3	18
122	PET motion compensation for radiation therapy using a CT-based mid-position motion model: methodology and clinical evaluation. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013 , 87, 394-400	4	17

121	Improved image quality of cone beam CT scans for radiotherapy image guidance using fiber-interspaced antiscatter grid. <i>Medical Physics</i> , 2014 , 41, 061910	4.4	17
120	Comparing position and orientation accuracy of different electromagnetic sensors for tracking during interventions. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2016 , 11, 1487-98 ^{3,9}		17
119	Predictors and Patterns of Regional Recurrence Following Lung SBRT: A Report From the Elekta Lung Research Group. <i>Clinical Lung Cancer</i> , 2017 , 18, 162-168	4.9	16
118	Correlating Dose Variables with Local Tumor Control in Stereotactic Body Radiation Therapy for Early-Stage Non-Small Cell Lung Cancer: A Modeling Study on 1500 Individual Treatments. <i>International Journal of Radiation Oncology Biology Physics</i> , 2020 , 107, 579-586	4	16
117	4D CT amplitude binning for the generation of a time-averaged 3D mid-position CT scan. <i>Physics in Medicine and Biology</i> , 2014 , 59, 5517-29	3.8	16
116	MRI-guided mid-position liver radiotherapy: Validation of image processing and registration steps. <i>Radiotherapy and Oncology</i> , 2019 , 138, 132-140	5.3	15
115	Microscopic disease extensions as a risk factor for loco-regional recurrence of NSCLC after SBRT. <i>Radiotherapy and Oncology</i> , 2013 , 109, 26-31	5.3	15
114	Mediastinal lymph node position variability in non-small cell lung cancer patients treated with radical irradiation. <i>Radiotherapy and Oncology</i> , 2012 , 105, 150-4	5.3	15
113	Evaluation of plan quality in radiotherapy planning with an MR-linac. <i>Physics and Imaging in Radiation Oncology</i> , 2019 , 10, 19-24	3.1	14
112	An MRI-based mid-ventilation approach for radiotherapy of the liver. <i>Radiotherapy and Oncology</i> , 2016 , 121, 276-280	5.3	14
111	Combined recipe for clinical target volume and planning target volume margins. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014 , 88, 708-14	4	14
110	Beyond the margin recipe: the probability of correct target dosage and tumor control in the presence of a dose limiting structure. <i>Physics in Medicine and Biology</i> , 2017 , 62, 7874-7888	3.8	14
109	A 1.5 T transverse magnetic field in radiotherapy of rectal cancer: Impact on the dose distribution. <i>Medical Physics</i> , 2015 , 42, 7182-9	4.4	14
108	SPECT/CT-guided elective nodal irradiation for head and neck cancer: Estimation of clinical benefits using NTCP models. <i>Radiotherapy and Oncology</i> , 2019 , 130, 18-24	5.3	13
107	Evaluation of tumor shape variability in head-and-neck cancer patients over the course of radiation therapy using implanted gold markers. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012 , 84, e201-7	4	13
106	State-of-the-art lung cancer radiation therapy. <i>Expert Review of Anticancer Therapy</i> , 2009 , 9, 1353-63	3.5	13
105	Subgroup Survival Analysis in Stage I-II NSCLC Patients With a Central Tumor Partly Treated With Risk-Adapted SBRT. <i>International Journal of Radiation Oncology Biology Physics</i> , 2019 , 103, 132-141	4	13
104	The first implementation of respiratory triggered 4DCBCT on a linear accelerator. <i>Physics in Medicine and Biology</i> , 2016 , 61, 3488-99	3.8	12

103	Analysis of GTV reduction during radiotherapy for oropharyngeal cancer: Implications for adaptive radiotherapy. <i>Radiotherapy and Oncology</i> , 2017 , 122, 224-228	5.3	12
102	Evaluating the impact of cone-beam computed tomography scatter mitigation strategies on radiotherapy dose calculation accuracy. <i>Physics and Imaging in Radiation Oncology</i> , 2019 , 10, 35-40	3.1	11
101	Correcting geometric image distortions in slice-based 4D-MRI on the MR-linac. <i>Medical Physics</i> , 2019 , 46, 3044-3054	4.4	11
100	Baseline peripheral blood leukocytosis: Biological marker predicts outcome in oropharyngeal cancer, regardless of HPV-status. <i>Oral Oncology</i> , 2018 , 78, 200-206	4.4	11
99	Validating a Predictive Atlas of Tumor Shrinkage for Adaptive Radiotherapy of Locally Advanced Lung Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018 , 102, 978-986	4	11
98	Hybrid registration of prostate and seminal vesicles for image guided radiation therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013 , 86, 177-82	4	11
97	On-the-fly motion-compensated cone-beam CT using an a priori motion model. <i>Lecture Notes in Computer Science</i> , 2008 , 11, 729-36	0.9	11
96	Multiple training interventions significantly improve reproducibility of PET/CT-based lung cancer radiotherapy target volume delineation using an IAEA study protocol. <i>Radiotherapy and Oncology</i> , 2016 , 121, 39-45	5.3	11
95	Mapping of sentinel lymph node drainage using SPECT/CT to tailor elective nodal irradiation in head and neck cancer patients (SUSPECT-2): a single-center prospective trial. <i>BMC Cancer</i> , 2019 , 19, 1110	4.8	11
94	Margin and PTV volume reduction using a population based library of plans strategy for rectal cancer radiotherapy. <i>Medical Physics</i> , 2018 , 45, 4345-4354	4.4	10
93	Influence of the number of elongated fiducial markers on the localization accuracy of the prostate. <i>Physics in Medicine and Biology</i> , 2012 , 57, 6211-26	3.8	10
92	Modeling radiation pneumonitis of pulmonary stereotactic body radiotherapy: The impact of a local dose-effect relationship for lung perfusion loss. <i>Radiotherapy and Oncology</i> , 2019 , 132, 142-147	5.3	10
91	Clinical evaluation of respiration-induced attenuation uncertainties in pulmonary 3D PET/CT. <i>EJNMMI Physics</i> , 2015 , 2, 4	4.4	9
90	Intrafraction Motion in Stereotactic Body Radiation Therapy for Non-Small Cell Lung Cancer: Intensity Modulated Radiation Therapy Versus Volumetric Modulated Arc Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2016 , 95, 835-43	4	9
89	Motion compensated digital tomosynthesis. <i>Radiotherapy and Oncology</i> , 2013 , 109, 398-403	5.3	9
88	Method comparison of automated matching software-assisted cone-beam CT and stereoscopic kilovoltage x-ray positional verification image-guided radiation therapy for head and neck cancer: a prospective analysis. <i>Physics in Medicine and Biology</i> , 2009 , 54, 7401-15	3.8	9
87	Quantification of Esophageal Tumor Motion and Investigation of Different Image-Guided Correction Strategies. <i>Practical Radiation Oncology</i> , 2020 , 10, 84-92	2.8	9
86	Stereotactic Body Radiation Therapy in Octo- and Nonagenarians for the Treatment of Early-Stage Lung Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2017 , 98, 893-899	4	8

85	Directional sinogram interpolation for motion weighted 4D cone-beam CT reconstruction. <i>Physics in Medicine and Biology</i> , 2017 , 62, 2254-2275	3.8	8
84	Reducing 4DCBCT imaging time and dose: the first implementation of variable gantry speed 4DCBCT on a linear accelerator. <i>Physics in Medicine and Biology</i> , 2017 , 62, 4300-4317	3.8	8
83	Recurrent oropharyngeal cancer after organ preserving treatment: pattern of failure and survival. <i>European Archives of Oto-Rhino-Laryngology</i> , 2017 , 274, 1691-1700	3.5	8
82	Dynamic collimator angle adjustments during volumetric modulated arc therapy to account for prostate rotations. <i>International Journal of Radiation Oncology Biology Physics</i> , 2015 , 91, 1009-16	4	8
81	First system for fully-automated multi-criterial treatment planning for a high-magnetic field MR-Linac applied to rectal cancer. <i>Acta Oncologica</i> , 2020 , 59, 926-932	3.2	8
80	Late follow-up of the randomized radiation and concomitant high-dose intra-arterial or intravenous cisplatin (RADPLAT) trial for advanced head and neck cancer. <i>Head and Neck</i> , 2016 , 38 Suppl 1, E488-93	4.2	8
79	Directional sinogram interpolation for sparse angular acquisition in cone-beam computed tomography. <i>Journal of X-Ray Science and Technology</i> , 2013 , 21, 481-96	2.1	8
78	2D AND 3D dose verification at The Netherlands Cancer Institute Antoni van Leeuwenhoek Hospital using EPIDs. <i>Journal of Physics: Conference Series</i> , 2010 , 250, 012020	0.3	8
77	Differences between planned and delivered dose for head and neck cancer, and their consequences for normal tissue complication probability and treatment adaptation. <i>Radiotherapy and Oncology</i> , 2020 , 142, 100-106	5.3	8
76	Fractures of thoracic vertebrae in patients with locally advanced non-small cell lung carcinoma treated with intensity modulated radiotherapy. <i>Radiotherapy and Oncology</i> , 2016 , 118, 437-41	5.3	8
75	Real-time wireless tumor tracking during breast conserving surgery. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2018 , 13, 531-539	3.9	8
74	Predictive Models to Determine Clinically Relevant Deviations in Delivered Dose for Head and Neck Cancer. <i>Practical Radiation Oncology</i> , 2019 , 9, e422-e431	2.8	7
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