

Per Rugaard Poulsen

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

98
papers

2,262
citations

29
h-index

43
g-index

102
ext. papers

2,673
ext. citations

2.8
avg, IF

4.94
L-index

#	Paper	IF	Citations
98	The first clinical implementation of electromagnetic transponder-guided MLC tracking. <i>Medical Physics</i> , 2014 , 41, 020702	4.4	125
97	Gold nanoparticle single-electron transistor with carbon nanotube leads. <i>Applied Physics Letters</i> , 2001 , 79, 2106-2108	3.4	79
96	A method of dose reconstruction for moving targets compatible with dynamic treatments. <i>Medical Physics</i> , 2012 , 39, 6237-46	4.4	76
95	A method to estimate mean position, motion magnitude, motion correlation, and trajectory of a tumor from cone-beam CT projections for image-guided radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008 , 72, 1587-96	4	75
94	Three-dimensional prostate position estimation with a single x-ray imager utilizing the spatial probability density. <i>Physics in Medicine and Biology</i> , 2008 , 53, 4331-53	3.8	73
93	A dosimetric comparison of real-time adaptive and non-adaptive radiotherapy: A multi-institutional study encompassing robotic, gimbaled, multileaf collimator and couch tracking. <i>Radiotherapy and Oncology</i> , 2016 , 119, 159-65	5.3	68
92	The first clinical treatment with kilovoltage intrafraction monitoring (KIM): a real-time image guidance method. <i>Medical Physics</i> , 2015 , 42, 354-8	4.4	61
91	Real-time intrafraction motion monitoring in external beam radiotherapy. <i>Physics in Medicine and Biology</i> , 2019 , 64, 15TR01	3.8	60
90	Dynamic multileaf collimator tracking of respiratory target motion based on a single kilovoltage imager during arc radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010 , 77, 600-7	4	59
89	Three-dimensional liver motion tracking using real-time two-dimensional MRI. <i>Medical Physics</i> , 2014 , 41, 042302	4.4	58
88	Implementation of a new method for dynamic multileaf collimator tracking of prostate motion in arc radiotherapy using a single kV imager. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010 , 76, 914-23	4	58
87	Real-time dynamic MLC tracking for inversely optimized arc radiotherapy. <i>Radiotherapy and Oncology</i> , 2010 , 94, 218-23	5.3	57
86	Detailed analysis of latencies in image-based dynamic MLC tracking. <i>Medical Physics</i> , 2010 , 37, 4998-5005	4.4	51
85	Image-based dynamic multileaf collimator tracking of moving targets during intensity-modulated arc therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012 , 83, e265-71	4	47
84	Real-time tumor tracking using sequential kV imaging combined with respiratory monitoring: a general framework applicable to commonly used IGRT systems. <i>Physics in Medicine and Biology</i> , 2010 , 55, 3299-316	3.8	47
83	Dynamic MLC tracking of moving targets with a single kV imager for 3D conformal and IMRT treatments. <i>Acta Oncologica</i> , 2010 , 49, 1092-100	3.2	44
82	Real-time prostate trajectory estimation with a single imager in arc radiotherapy: a simulation study. <i>Physics in Medicine and Biology</i> , 2009 , 54, 4019-35	3.8	43

81	Kilovoltage intrafraction motion monitoring and target dose reconstruction for stereotactic volumetric modulated arc therapy of tumors in the liver. <i>Radiotherapy and Oncology</i> , 2014 , 111, 424-30	5.3	40
80	Respiratory gating based on internal electromagnetic motion monitoring during stereotactic liver radiation therapy: First results. <i>Acta Oncologica</i> , 2015 , 54, 1445-52	3.2	39
79	Dosimetric impact of respiratory motion, interfraction baseline shifts, and anatomical changes in radiotherapy of non-small cell lung cancer. <i>Acta Oncologica</i> , 2013 , 52, 1490-6	3.2	37
78	Real-time estimation of prostate tumor rotation and translation with a kV imaging system based on an iterative closest point algorithm. <i>Physics in Medicine and Biology</i> , 2013 , 58, 8517-33	3.8	37
77	Residual set-up errors and margins in on-line image-guided prostate localization in radiotherapy. <i>Radiotherapy and Oncology</i> , 2007 , 85, 201-6	5.3	37
76	Variations in magnitude and directionality of respiratory target motion throughout full treatment courses of stereotactic body radiotherapy for tumors in the liver. <i>Acta Oncologica</i> , 2013 , 52, 1437-44	3.2	36
75	Real-time target position estimation using stereoscopic kilovoltage/megavoltage imaging and external respiratory monitoring for dynamic multileaf collimator tracking. <i>International Journal of Radiation Oncology Biology Physics</i> , 2011 , 79, 269-78	4	36
74	Electromagnetic guided couch and multileaf collimator tracking on a TrueBeam accelerator. <i>Medical Physics</i> , 2016 , 43, 2387	4.4	36
73	The first clinical implementation of real-time image-guided adaptive radiotherapy using a standard linear accelerator. <i>Radiotherapy and Oncology</i> , 2018 , 127, 6-11	5.3	35
72	Robust automatic segmentation of multiple implanted cylindrical gold fiducial markers in cone-beam CT projections. <i>Medical Physics</i> , 2011 , 38, 6351-61	4.4	33
71	The first clinical implementation of a real-time six degree of freedom target tracking system during radiation therapy based on Kilovoltage Intrafraction Monitoring (KIM). <i>Radiotherapy and Oncology</i> , 2017 , 123, 37-42	5.3	32
70	A method for robust segmentation of arbitrarily shaped radiopaque structures in cone-beam CT projections. <i>Medical Physics</i> , 2011 , 38, 2151-6	4.4	31
69	Review of Real-Time 3-Dimensional Image Guided Radiation Therapy on Standard-Equipped Cancer Radiation Therapy Systems: Are We at the Tipping Point for the Era of Real-Time Radiation Therapy?. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018 , 102, 922-931	4	29
68	Challenges of radiotherapy: report on the 4D treatment planning workshop 2013. <i>Physica Medica</i> , 2014 , 30, 809-15	2.7	29
67	Role of hydrogen surface coverage during anodic plasma deposition of hydrogenated nanocrystalline germanium. <i>Journal of Applied Physics</i> , 1998 , 84, 3386-3391	2.5	29
66	Efficient Interplay Effect Mitigation for Proton Pencil Beam Scanning by Spot-Adapted Layered Repainting Evenly Spread out Over the Full Breathing Cycle. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018 , 100, 226-234	4	28
65	Online 4D ultrasound guidance for real-time motion compensation by MLC tracking. <i>Medical Physics</i> , 2016 , 43, 5695	4.4	28
64	Tracking latency in image-based dynamic MLC tracking with direct image access. <i>Acta Oncologica</i> , 2011 , 50, 952-9	3.2	27

63	Setup error and motion during deep inspiration breath-hold breast radiotherapy measured with continuous portal imaging. <i>Acta Oncologica</i> , 2016 , 55, 193-200	3.2	23
62	Geometric accuracy of dynamic MLC tracking with an implantable wired electromagnetic transponder. <i>Acta Oncologica</i> , 2011 , 50, 944-51	3.2	23
61	See, Think, and Act: Real-Time Adaptive Radiotherapy. <i>Seminars in Radiation Oncology</i> , 2019 , 29, 228-235	5.5	22
60	First online real-time evaluation of motion-induced 4D dose errors during radiotherapy delivery. <i>Medical Physics</i> , 2018 , 45, 3893	4.4	22
59	Quality assurance for the clinical implementation of kilovoltage intrafraction monitoring for prostate cancer VMAT. <i>Medical Physics</i> , 2014 , 41, 1117-12	4.4	22
58	Time-resolved dose distributions to moving targets during volumetric modulated arc therapy with and without dynamic MLC tracking. <i>Medical Physics</i> , 2013 , 40, 1117-23	4.4	22
57	Target position uncertainty during visually guided deep-inspiration breath-hold radiotherapy in locally advanced lung cancer. <i>Radiotherapy and Oncology</i> , 2017 , 123, 78-84	5.3	20
56	An experimentally validated couch and MLC tracking simulator used to investigate hybrid couch-MLC tracking. <i>Medical Physics</i> , 2017 , 44, 798-809	4.4	19
55	Registration-based reconstruction of four-dimensional cone beam computed tomography. <i>IEEE Transactions on Medical Imaging</i> , 2013 , 32, 2064-77	11.7	19
54	Fiducial marker guided stereotactic liver radiotherapy: Is a time delay between marker implantation and planning CT needed?. <i>Radiotherapy and Oncology</i> , 2016 , 121, 75-78	5.3	18
53	The dosimetric impact of inversely optimized arc radiotherapy plan modulation for real-time dynamic MLC tracking delivery. <i>Medical Physics</i> , 2012 , 39, 1588-94	4.4	18
52	Motion management during IMAT treatment of mobile lung tumors--a comparison of MLC tracking and gated delivery. <i>Medical Physics</i> , 2014 , 41, 1017-07	4.4	16
51	Dosimetric verification of complex radiotherapy with a 3D optically based dosimetry system: dose painting and target tracking. <i>Acta Oncologica</i> , 2013 , 52, 1445-50	3.2	16
50	Cardiac and respiration induced motion of mediastinal lymph node targets in lung cancer patients throughout the radiotherapy treatment course. <i>Radiotherapy and Oncology</i> , 2016 , 121, 52-58	5.3	16
49	Inter- and intra-fraction geometric errors in daily image-guided radiotherapy of free-breathing breast cancer patients measured with continuous portal imaging. <i>Acta Oncologica</i> , 2014 , 53, 802-8	3.2	14
48	Clinical validation of a 4D-CT based method for lung ventilation measurement in phantoms and patients. <i>Acta Oncologica</i> , 2011 , 50, 897-907	3.2	14
47	Intrafraction changes of prostate position and geometrical errors studied by continuous electronic portal imaging. <i>Acta Oncologica</i> , 2008 , 47, 1351-7	3.2	14
46	A method for selection of beam angles robust to intra-fractional motion in proton therapy of lung cancer. <i>Acta Oncologica</i> , 2014 , 53, 1058-63	3.2	13

45	Clinical use of iterative 4D-cone beam computed tomography reconstructions to investigate respiratory tumor motion in lung cancer patients. <i>Acta Oncologica</i> , 2014 , 53, 1107-13	3.2	13
44	Geometric and dosimetric comparison of four intrafraction motion adaptation strategies for stereotactic liver radiotherapy. <i>Physics in Medicine and Biology</i> , 2018 , 63, 145010	3.8	13
43	Cone beam CT-based set-up strategies with and without rotational correction for stereotactic body radiation therapy in the liver. <i>Acta Oncologica</i> , 2017 , 56, 860-866	3.2	12
42	Volumetric modulated arc therapy with dynamic collimator rotation for improved multileaf collimator tracking of the prostate. <i>Radiotherapy and Oncology</i> , 2017 , 122, 109-115	5.3	12
41	A deep learning framework for automatic detection of arbitrarily shaped fiducial markers in intrafraction fluoroscopic images. <i>Medical Physics</i> , 2019 , 46, 2286-2297	4.4	12
40	First clinical real-time motion-including tumor dose reconstruction during radiotherapy delivery. <i>Radiotherapy and Oncology</i> , 2019 , 139, 66-71	5.3	12
39	Time-resolved dose reconstruction by motion encoding of volumetric modulated arc therapy fields delivered with and without dynamic multi-leaf collimator tracking. <i>Acta Oncologica</i> , 2013 , 52, 1497-503	3.2	12
38	Setup strategies and uncertainties in esophageal radiotherapy based on detailed intra- and interfractional tumor motion mapping. <i>Radiotherapy and Oncology</i> , 2019 , 136, 161-168	5.3	11
37	Patterns of practice for adaptive and real-time radiation therapy (POP-ART RT) part I: Intra-fraction breathing motion management. <i>Radiotherapy and Oncology</i> , 2020 , 153, 79-87	5.3	10
36	The accuracy and precision of Kilovoltage Intrafraction Monitoring (KIM) six degree-of-freedom prostate motion measurements during patient treatments. <i>Radiotherapy and Oncology</i> , 2018 , 126, 236-243	5.3	9
35	The impact of leaf width and plan complexity on DMLC tracking of prostate intensity modulated arc therapy. <i>Medical Physics</i> , 2013 , 40, 1117-17	4.4	9
34	Investigating multi-leaf collimator tracking in stereotactic arrhythmic radioablation (STAR) treatments for atrial fibrillation. <i>Physics in Medicine and Biology</i> , 2018 , 63, 195008	3.8	9
33	Simulated multileaf collimator tracking for stereotactic liver radiotherapy guided by kilovoltage intrafraction monitoring: Dosimetric gain and target overdose trends. <i>Radiotherapy and Oncology</i> , 2020 , 144, 93-100	5.3	8
32	Reconstruction of implanted marker trajectories from cone-beam CT projection images using interdimensional correlation modeling. <i>Medical Physics</i> , 2016 , 43, 4643	4.4	8
31	Dosimetric effect of intrafraction motion and different localization strategies in prostate SBRT. <i>Physica Medica</i> , 2020 , 75, 58-68	2.7	7
30	Potential improvements of lung and prostate MLC tracking investigated by treatment simulations. <i>Medical Physics</i> , 2018 , 45, 2218-2229	4.4	7
29	Simulated real-time dose reconstruction for moving tumors in stereotactic liver radiotherapy. <i>Medical Physics</i> , 2019 , 46, 4738-4748	4.4	7
28	Moving metal artifact reduction in cone-beam CT scans with implanted cylindrical gold markers. <i>Medical Physics</i> , 2014 , 41, 121710	4.4	7

27	Accuracy of image-guided radiotherapy of prostate cancer based on the BeamCath urethral catheter technique. <i>Radiotherapy and Oncology</i> , 2007 , 83, 25-30	5.3	7
26	The accuracy and precision of the KIM motion monitoring system used in the multi-institutional TROG 15.01 Stereotactic Prostate Ablative Radiotherapy with KIM (SPARK) trial. <i>Medical Physics</i> , 2019 , 46, 4725-4737	4.4	6
25	AAPM Task Group 264: The safe clinical implementation of MLC tracking in radiotherapy. <i>Medical Physics</i> , 2021 , 48, e44-e64	4.4	6
24	Is multileaf collimator tracking or gating a better intrafraction motion adaptation strategy? An analysis of the TROG 15.01 stereotactic prostate ablative radiotherapy with KIM (SPARK) trial. <i>Radiotherapy and Oncology</i> , 2020 , 151, 234-241	5.3	5
23	Quantification of intrafraction prostate motion and its dosimetric effect on VMAT. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2017 , 40, 317-324	1.9	4
22	Simultaneous acquisition of 4D ultrasound and wireless electromagnetic tracking for in-vivo accuracy validation. <i>Current Directions in Biomedical Engineering</i> , 2017 , 3, 75-78	0.5	4
21	Improved quality of intrafraction kilovoltage images by triggered readout of unexposed frames. <i>Medical Physics</i> , 2015 , 42, 6549-57	4.4	4
20	Self-organization of Te clusters in nanofilm by low energy beam deposition. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1998 , 244, 407-412	2.3	4
19	Isotoxic dose prescription level strategies for stereotactic liver radiotherapy: the price of dose uniformity. <i>Acta Oncologica</i> , 2020 , 59, 558-564	3.2	4
18	Strategies for Motion Robust Proton Therapy With Pencil Beam Scanning for Esophageal Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021 , 111, 539-548	4	4
17	Systematic intrafraction shifts of mediastinal lymph node targets between setup imaging and radiation treatment delivery in lung cancer patients. <i>Radiotherapy and Oncology</i> , 2018 , 126, 318-324	5.3	3
16	Rethink radiotherapy - BIGART 2017. <i>Acta Oncologica</i> , 2017 , 56, 1341-1352	3.2	3
15	The adsorption position of Hg on Ni(100): a transmission channeling study. <i>Surface Science</i> , 1994 , 310, L589-L594	1.8	3
14	MLC tracking for lung SABR is feasible, efficient and delivers high-precision target dose and lower normal tissue dose. <i>Radiotherapy and Oncology</i> , 2021 , 155, 131-137	5.3	3
13	Single-fraction prostate stereotactic body radiotherapy: Dose reconstruction with electromagnetic intrafraction motion tracking. <i>Radiotherapy and Oncology</i> , 2021 , 156, 145-152	5.3	3
12	Technical Note: In silico and experimental evaluation of two leaf-fitting algorithms for MLC tracking based on exposure error and plan complexity. <i>Medical Physics</i> , 2019 , 46, 1814-1820	4.4	2
11	Fully automated detection of heart irradiation in cine MV images acquired during breast cancer radiotherapy. <i>Radiotherapy and Oncology</i> , 2020 , 152, 189-195	5.3	2
10	Dosimetric impact of intrafraction prostate rotation and accuracy of gating, multi-leaf collimator tracking and couch tracking to manage rotation: An end-to-end validation using volumetric film measurements. <i>Radiotherapy and Oncology</i> , 2021 , 156, 10-18	5.3	2

9	Visible photoluminescence from the nanophase film prepared by Ge?Al co-evaporation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1998 , 241, 115-118	2.3	1
8	Comparative study of the structural properties of nanocrystalline Ge:H plasma deposited onto the cathode and the anode using high hydrogen dilutions. <i>Thin Solid Films</i> , 1999 , 346, 91-95	2.2	1
7	Intrafraction motion monitoring to determine PTV margins in early stage breast cancer patients receiving neoadjuvant partial breast SABR. <i>Radiotherapy and Oncology</i> , 2021 , 158, 276-284	5.3	1
6	Adapting to the motion of multiple independent targets using multileaf collimator tracking for locally advanced prostate cancer: Proof of principle simulation study. <i>Medical Physics</i> , 2021 , 48, 114-124	4.4	1
5	TU-G-141-09: Real Time Estimation of Prostate Tumor Rotation and Translation with a KV Imaging System Based On An Iterative Closest Point Algorithm. <i>Medical Physics</i> , 2013 , 40, 458-458	4.4	0
4	Six degrees of freedom dynamic motion-including dose reconstruction in a commercial treatment planning system. <i>Medical Physics</i> , 2021 , 48, 1427-1435	4.4	0
3	First experimental evaluation of multi-target multileaf collimator tracking during volumetric modulated arc therapy for locally advanced prostate cancer. <i>Radiotherapy and Oncology</i> , 2021 , 160, 212-220	5.3	0
2	TU-E-204B-07: Real-Time 3D Target Position Estimation Using a Single KV Imager Combined with an External Respiratory Monitor during Arc and Static Beam Delivery. <i>Medical Physics</i> , 2010 , 37, 3402-3403	4.4	
1	TU-E-141-04: Dose Reconstruction for DMLC Tracking and Gating in Adaptive Prostate Radiotherapy. <i>Medical Physics</i> , 2013 , 40, 447-447	4.4	