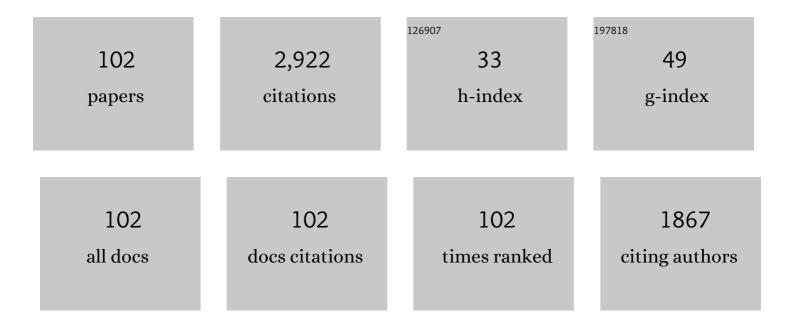
Per Rugaard Poulsen

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Time structure of pencil beam scanning proton FLASH beams measured with scintillator detectors and compared with log files. Medical Physics, 2022, 49, 1932-1943.	3.0	13
2	MLC tracking for lung SABR is feasible, efficient and delivers high-precision target dose and lower normal tissue dose. Radiotherapy and Oncology, 2021, 155, 131-137.	0.6	18
3	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. Radiotherapy and Oncology, 2021, 156, 10-18.	0.6	5
4	Adapting to the motion of multiple independent targets using multileaf collimator tracking for locally advanced prostate cancer: Proof of principle simulation study. Medical Physics, 2021, 48, 114-124.	3.0	3
5	Single-fraction prostate stereotactic body radiotherapy: Dose reconstruction with electromagnetic intrafraction motion tracking. Radiotherapy and Oncology, 2021, 156, 145-152.	0.6	13
6	AAPM Task Group 264: The safe clinical implementation of MLC tracking in radiotherapy. Medical Physics, 2021, 48, e44-e64.	3.0	49
7	Six degrees of freedom dynamic motionâ€including dose reconstruction in a commercial treatment planning system. Medical Physics, 2021, 48, 1427-1435.	3.0	2
8	Intrafraction motion monitoring to determine PTV margins in early stage breast cancer patients receiving neoadjuvant partial breast SABR. Radiotherapy and Oncology, 2021, 158, 276-284.	0.6	3
9	A real-time IGRT method using a Kalman filter framework to extract 3D positions from 2D projections. Physics in Medicine and Biology, 2021, 66, 214001.	3.0	1
10	First experimental evaluation of multi-target multileaf collimator tracking during volumetric modulated arc therapy for locally advanced prostate cancer. Radiotherapy and Oncology, 2021, 160, 212-220.	0.6	3
11	Uniform versus non-uniform dose prescription for proton stereotactic body radiotherapy of liver tumors investigated by extensive motion-including treatment simulations. Physics in Medicine and Biology, 2021, 66, 205009.	3.0	3
12	Strategies for Motion Robust Proton Therapy With Pencil Beam Scanning for Esophageal Cancer. International Journal of Radiation Oncology Biology Physics, 2021, 111, 539-548.	0.8	13
13	Isotoxic dose prescription level strategies for stereotactic liver radiotherapy: the price of dose uniformity. Acta Oncológica, 2020, 59, 558-564.	1.8	7
14	Simulated multileaf collimator tracking for stereotactic liver radiotherapy guided by kilovoltage intrafraction monitoring: Dosimetric gain and target overdose trends. Radiotherapy and Oncology, 2020, 144, 93-100.	0.6	8
15	Fully automated detection of heart irradiation in cine MV images acquired during breast cancer radiotherapy. Radiotherapy and Oncology, 2020, 152, 189-195.	0.6	9
16	ls 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. Radiotherapy and Oncology, 2020, 151, 234-241.	0.6	10
17	Patterns of practice for adaptive and real-time radiation therapy (POP-ART RT) part I: Intra-fraction breathing motion management. Radiotherapy and Oncology, 2020, 153, 79-87.	0.6	34
18	Dosimetric effect of intrafraction motion and different localization strategies in prostate SBRT. Physica Medica, 2020, 75, 58-68.	0.7	11

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19	Simulated realâ€ŧime dose reconstruction for moving tumors in stereotactic liver radiotherapy. Medical Physics, 2019, 46, 4738-4748.	3.0	9
20	First clinical real-time motion-including tumor dose reconstruction during radiotherapy delivery. Radiotherapy and Oncology, 2019, 139, 66-71.	0.6	21
21	The accuracy and precision of the KIM motion monitoring system used in the multiâ€institutional TROG 15.01 Stereotactic Prostate Ablative Radiotherapy with KIM (SPARK) trial. Medical Physics, 2019, 46, 4725-4737.	3.0	14
22	Real-time intrafraction motion monitoring in external beam radiotherapy. Physics in Medicine and Biology, 2019, 64, 15TR01.	3.0	130
23	Setup strategies and uncertainties in esophageal radiotherapy based on detailed intra- and interfractional tumor motion mapping. Radiotherapy and Oncology, 2019, 136, 161-168.	0.6	18
24	See, Think, and Act: Real-Time Adaptive Radiotherapy. Seminars in Radiation Oncology, 2019, 29, 228-235.	2.2	37
25	A deep learning framework for automatic detection of arbitrarily shaped fiducial markers in intrafraction fluoroscopic images. Medical Physics, 2019, 46, 2286-2297.	3.0	21
26	Technical Note: In silico and experimental evaluation of two leafâ€fitting algorithms for MLC tracking based on exposure error and plan complexity. Medical Physics, 2019, 46, 1814-1820.	3.0	2
27	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?. International Journal of Radiation Oncology Biology Physics, 2018, 102, 922-931.	0.8	45
28	Potential improvements of lung and prostate MLC tracking investigated by treatment simulations. Medical Physics, 2018, 45, 2218-2229.	3.0	10
29	The accuracy and precision of Kilovoltage Intrafraction Monitoring (KIM) six degree-of-freedom prostate motion measurements during patient treatments. Radiotherapy and Oncology, 2018, 126, 236-243.	0.6	17
30	The first clinical implementation of real-time image-guided adaptive radiotherapy using a standard linear accelerator. Radiotherapy and Oncology, 2018, 127, 6-11.	0.6	54
31	Systematic intrafraction shifts of mediastinal lymph node targets between setup imaging and radiation treatment delivery in lung cancer patients. Radiotherapy and Oncology, 2018, 126, 318-324.	0.6	6
32	Efficient Interplay Effect Mitigation for Proton Pencil Beam Scanning by Spot-Adapted Layered Repainting Evenly Spread out Over the Full Breathing Cycle. International Journal of Radiation Oncology Biology Physics, 2018, 100, 226-234.	0.8	35
33	Investigating multi-leaf collimator tracking in stereotactic arrhythmic radioablation (STAR) treatments for atrial fibrillation. Physics in Medicine and Biology, 2018, 63, 195008.	3.0	16
34	Geometric and dosimetric comparison of four intrafraction motion adaptation strategies for stereotactic liver radiotherapy. Physics in Medicine and Biology, 2018, 63, 145010.	3.0	16
35	First online realâ€time evaluation of motionâ€induced 4D dose errors during radiotherapy delivery. Medical Physics, 2018, 45, 3893-3903.	3.0	29
36	An experimentally validated couch and MLC tracking simulator used to investigate hybrid couchâ€MLC tracking. Medical Physics, 2017, 44, 798-809.	3.0	20

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37	Quantification of intrafraction prostate motion and its dosimetric effect on VMAT. Australasian Physical and Engineering Sciences in Medicine, 2017, 40, 317-324.	1.3	6
38	Target position uncertainty during visually guided deep-inspiration breath-hold radiotherapy in locally advanced lung cancer. Radiotherapy and Oncology, 2017, 123, 78-84.	0.6	33
39	Cone beam CT-based set-up strategies with and without rotational correction for stereotactic body radiation therapy in the liver. Acta OncolÃ ³ gica, 2017, 56, 860-866.	1.8	17
40	The first clinical implementation of a real-time six degree of freedom target tracking system during radiation therapy based on Kilovoltage Intrafraction Monitoring (KIM). Radiotherapy and Oncology, 2017, 123, 37-42.	0.6	39
41	Volumetric modulated arc therapy with dynamic collimator rotation for improved multileaf collimator tracking of the prostate. Radiotherapy and Oncology, 2017, 122, 109-115.	0.6	13
42	Rethink radiotherapy – BIGART 2017. Acta Oncológica, 2017, 56, 1341-1352.	1.8	6
43	Simultaneous acquisition of 4D ultrasound and wireless electromagnetic tracking for <i>in-vivo</i> accuracy validation. Current Directions in Biomedical Engineering, 2017, 3, 75-78.	0.4	5
44	Reconstruction of implanted marker trajectories from cone-beam CT projection images using interdimensional correlation modeling. Medical Physics, 2016, 43, 4643-4654.	3.0	11
45	Online 4D ultrasound guidance for realâ€ŧime motion compensation by MLC tracking. Medical Physics, 2016, 43, 5695-5704.	3.0	33
46	Electromagnetic guided couch and multileaf collimator tracking on a TrueBeam accelerator. Medical Physics, 2016, 43, 2387-2398.	3.0	42
47	A dosimetric comparison of real-time adaptive and non-adaptive radiotherapy: A multi-institutional study encompassing robotic, gimbaled, multileaf collimator and couch tracking. Radiotherapy and Oncology, 2016, 119, 159-165.	0.6	82
48	Cardiac and respiration induced motion of mediastinal lymph node targets in lung cancer patients throughout the radiotherapy treatment course. Radiotherapy and Oncology, 2016, 121, 52-58.	0.6	23
49	Fiducial marker guided stereotactic liver radiotherapy: Is a time delay between marker implantation and planning CT needed?. Radiotherapy and Oncology, 2016, 121, 75-78.	0.6	24
50	Setup error and motion during deep inspiration breath-hold breast radiotherapy measured with continuous portal imaging. Acta Oncolųgica, 2016, 55, 193-200.	1.8	39
51	The first clinical treatment with kilovoltage intrafraction monitoring (KIM): A realâ€ŧime image guidance method. Medical Physics, 2015, 42, 354-358.	3.0	71
52	Improved quality of intrafraction kilovoltage images by triggered readout of unexposed frames. Medical Physics, 2015, 42, 6549-6557.	3.0	6
53	Respiratory gating based on internal electromagnetic motion monitoring during stereotactic liver radiation therapy: First results. Acta Oncológica, 2015, 54, 1445-1452.	1.8	43
54	A method for selection of beam angles robust to intra-fractional motion in proton therapy of lung cancer. Acta Oncológica, 2014, 53, 1058-1063.	1.8	21

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55	Inter- and intra-fraction geometric errors in daily image-guided radiotherapy of free-breathing breast cancer patients measured with continuous portal imaging. Acta Oncológica, 2014, 53, 802-808.	1.8	19
56	Clinical use of iterative 4D-cone beam computed tomography reconstructions to investigate respiratory tumor motion in lung cancer patients. Acta OncolÃ ³ gica, 2014, 53, 1107-1113.	1.8	14
57	Motion management during IMAT treatment of mobile lung tumors—A comparison of MLC tracking and gated delivery. Medical Physics, 2014, 41, 101707.	3.0	18
58	Moving metal artifact reduction in coneâ€beam CT scans with implanted cylindrical gold markers. Medical Physics, 2014, 41, 121710.	3.0	9
59	Quality assurance for the clinical implementation of kilovoltage intrafraction monitoring for prostate cancer VMAT. Medical Physics, 2014, 41, 111712.	3.0	26
60	The first clinical implementation of electromagnetic transponderâ€guided MLC tracking. Medical Physics, 2014, 41, 020702.	3.0	137
61	Threeâ€dimensional liver motion tracking using realâ€time twoâ€dimensional MRI. Medical Physics, 2014, 41, 042302.	3.0	69
62	Challenges of radiotherapy: Report on the 4D treatment planning workshop 2013. Physica Medica, 2014, 30, 809-815.	0.7	32
63	Kilovoltage intrafraction motion monitoring and target dose reconstruction for stereotactic volumetric modulated arc therapy of tumors in the liver. Radiotherapy and Oncology, 2014, 111, 424-430.	0.6	47
64	Variations in magnitude and directionality of respiratory target motion throughout full treatment courses of stereotactic body radiotherapy for tumors in the liver. Acta OncolA³gica, 2013, 52, 1437-1444.	1.8	47
65	The impact of leaf width and plan complexity on DMLC tracking of prostate intensity modulated arc therapy. Medical Physics, 2013, 40, 111717.	3.0	9
66	Dosimetric impact of respiratory motion, interfraction baseline shifts, and anatomical changes in radiotherapy of non-small cell lung cancer. Acta OncolÃ ³ gica, 2013, 52, 1490-1496.	1.8	49
67	Dosimetric verification of complex radiotherapy with a 3D optically based dosimetry system: Dose painting and target tracking. Acta Oncológica, 2013, 52, 1445-1450.	1.8	22
68	Time-resolved dose reconstruction by motion encoding of volumetric modulated arc therapy fields delivered with and without dynamic multi-leaf collimator tracking. Acta Oncológica, 2013, 52, 1497-1503.	1.8	13
69	Real-time estimation of prostate tumor rotation and translation with a kV imaging system based on an iterative closest point algorithm. Physics in Medicine and Biology, 2013, 58, 8517-8533.	3.0	42
70	Registration-Based Reconstruction of Four-Dimensional Cone Beam Computed Tomography. IEEE Transactions on Medical Imaging, 2013, 32, 2064-2077.	8.9	21
71	Timeâ€resolved dose distributions to moving targets during volumetric modulated arc therapy with and without dynamic MLC tracking. Medical Physics, 2013, 40, 111723.	3.0	24
72	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. Medical Physics, 2013, 40, 458-458.	3.0	1

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73	TU-E-141-04: Dose Reconstruction for DMLC Tracking and Gating in Adaptive Prostate Radiotherapy. Medical Physics, 2013, 40, 447-447.	3.0	0
74	A method of dose reconstruction for moving targets compatible with dynamic treatments. Medical Physics, 2012, 39, 6237-6246.	3.0	86
75	Image-Based Dynamic Multileaf Collimator Tracking of Moving Targets During Intensity-Modulated Arc Therapy. International Journal of Radiation Oncology Biology Physics, 2012, 83, e265-e271.	0.8	48
76	The dosimetric impact of inversely optimized arc radiotherapy plan modulation for real-time dynamic MLC tracking delivery. Medical Physics, 2012, 39, 1588-1594.	3.0	18
77	Geometric accuracy of dynamic MLC tracking with an implantable wired electromagnetic transponder. Acta Oncológica, 2011, 50, 944-951.	1.8	28
78	Clinical validation of a 4D-CT based method for lung ventilation measurement in phantoms and patients. Acta OncolÃ ³ gica, 2011, 50, 897-907.	1.8	18
79	Tracking latency in image-based dynamic MLC tracking with direct image access. Acta Oncológica, 2011, 50, 952-959.	1.8	31
80	Robust automatic segmentation of multiple implanted cylindrical gold fiducial markers in coneâ€beam CT projections. Medical Physics, 2011, 38, 6351-6361.	3.0	39
81	A method for robust segmentation of arbitrarily shaped radiopaque structures in coneâ€beam CT projections. Medical Physics, 2011, 38, 2151-2156.	3.0	33
82	Real-Time Target Position Estimation Using Stereoscopic Kilovoltage/Megavoltage Imaging and External Respiratory Monitoring for Dynamic Multileaf Collimator Tracking. International Journal of Radiation Oncology Biology Physics, 2011, 79, 269-278.	0.8	44
83	MO-F-BRC-01: 3D Target Trajectory Reconstruction Using CBCT Projection Images. Medical Physics, 2011, 38, 3723-3723.	3.0	0
84	Dynamic Multileaf Collimator Tracking of Respiratory Target Motion Based on a Single Kilovoltage Imager During Arc Radiotherapy. International Journal of Radiation Oncology Biology Physics, 2010, 77, 600-607.	0.8	63
85	Implementation of a New Method for Dynamic Multileaf Collimator Tracking of Prostate Motion in Arc Radiotherapy Using a Single kV Imager. International Journal of Radiation Oncology Biology Physics, 2010, 76, 914-923.	0.8	59
86	Real-time tumor tracking using sequential kV imaging combined with respiratory monitoring: a general framework applicable to commonly used IGRT systems. Physics in Medicine and Biology, 2010, 55, 3299-3316.	3.0	50
87	4998-5005.	3.0	63
88	Dynamic MLC tracking of moving targets with a single kV imager for 3D conformal and IMRT treatments. Acta Oncológica, 2010, 49, 1092-1100.	1.8	50
89	Real-time dynamic MLC tracking for inversely optimized arc radiotherapy. Radiotherapy and Oncology, 2010, 94, 218-223.	0.6	62
90	TUâ€Eâ€204Bâ€07: Realâ€Time 3D Target Position Estimation Using a Single KV Imager Combined with an Extern	1al 3.0	0

TU‣â€204Bâ€07: Realâ€Time 3D Target Position Estimation Using a Single KV Imager Combined with an External Respiratory Monitor during Arc and Static Beam Delivery. Medical Physics, 2010, 37, 3402-3403. 90

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91	Real-time prostate trajectory estimation with a single imager in arc radiotherapy: a simulation study. Physics in Medicine and Biology, 2009, 54, 4019-4035.	3.0	49
92	A Method to Estimate Mean Position, Motion Magnitude, Motion Correlation, and Trajectory of a Tumor From Cone-Beam CT Projections for Image-Guided Radiotherapy. International Journal of Radiation Oncology Biology Physics, 2008, 72, 1587-1596.	0.8	82
93	Intrafraction changes of prostate position and geometrical errors studied by continuous electronic portal imaging. Acta Oncológica, 2008, 47, 1351-1357.	1.8	16
94	Three-dimensional prostate position estimation with a single x-ray imager utilizing the spatial probability density. Physics in Medicine and Biology, 2008, 53, 4331-4353.	3.0	84
95	Accuracy of image-guided radiotherapy of prostate cancer based on the BeamCath® urethral catheter technique. Radiotherapy and Oncology, 2007, 83, 25-30.	0.6	11
96	Residual set-up errors and margins in on-line image-guided prostate localization in radiotherapy. Radiotherapy and Oncology, 2007, 85, 201-206.	0.6	44
97	Gold nanoparticle single-electron transistor with carbon nanotube leads. Applied Physics Letters, 2001, 79, 2106-2108.	3.3	87
98	Comparative study of the structural properties of nanocrystalline Ge:H plasma deposited onto the cathode and the anode using high hydrogen dilutions. Thin Solid Films, 1999, 346, 91-95.	1.8	1
99	Visible photoluminescence from the nanophase film prepared by Geî—Al co-evaporation. Physics Letters, Section A: General, Atomic and Solid State Physics, 1998, 241, 115-118.	2.1	1
100	Self-organization of Te clusters in nanofilm by low energy beam deposition. Physics Letters, Section A: General, Atomic and Solid State Physics, 1998, 244, 407-412.	2.1	4
101	Role of hydrogen surface coverage during anodic plasma deposition of hydrogenated nanocrystalline germanium. Journal of Applied Physics, 1998, 84, 3386-3391.	2.5	30
102	The adsorption position of Hg on Ni(100): a transmission channeling study. Surface Science, 1994, 310, L589-L594.	1.9	3