

# Astrid van der Horst

## List of Publications by Year in descending order

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Version: 2024-02-01

31  
papers

849  
citations

394286

19  
h-index

526166

27  
g-index

32  
all docs

32  
docs citations

32  
times ranked

1005  
citing authors

#	ARTICLE	IF	CITATIONS
1	Calibration of dynamic holographic optical tweezers for force measurements on biomaterials. <i>Optics Express</i> , 2008, 16, 20987.	1.7	75
2	Interfractional Position Variation of Pancreatic Tumors Quantified Using Intratumoral Fiducial Markers and Daily Cone Beam Computed Tomography. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013, 87, 202-208.	0.4	71
3	EUS-guided fiducial markers placement with a 22-gauge needle for image-guided radiation therapy in pancreatic cancer. <i>Gastrointestinal Endoscopy</i> , 2014, 79, 851-855.	0.5	60
4	Power spectral analysis for optical trap stiffness calibration from high-speed camera position detection with limited bandwidth. <i>Optics Express</i> , 2010, 18, 7670.	1.7	58
5	Differences in respiratory-induced pancreatic tumor motion between 4D treatment planning CT and daily cone beam CT, measured using intratumoral fiducials. <i>Acta Oncologica</i> , 2014, 53, 1257-1264.	0.8	55
6	Visibility and artifacts of gold fiducial markers used for image guided radiation therapy of pancreatic cancer on MRI. <i>Medical Physics</i> , 2015, 42, 2638-2647.	1.6	44
7	Manipulating metal-oxide nanowires using counter-propagating optical line tweezers. <i>Optics Express</i> , 2007, 15, 11629.	1.7	41
8	The clinical benefit of hyperthermia in pancreatic cancer: a systematic review. <i>International Journal of Hyperthermia</i> , 2018, 34, 969-979.	1.1	41
9	Colloidal epitaxy: Playing with the boundary conditions of colloidal crystallization. <i>Faraday Discussions</i> , 2003, 123, 107-119.	1.6	40
10	Marker-based quantification of interfractional tumor position variation and the use of markers for setup verification in radiation therapy for esophageal cancer. <i>Radiotherapy and Oncology</i> , 2015, 117, 412-418.	0.3	37
11	Abdominal organ motion during inhalation and exhalation breath-holds: pancreatic motion at different lung volumes compared. <i>Radiotherapy and Oncology</i> , 2016, 121, 268-275.	0.3	37
12	Stretching single DNA molecules to demonstrate high-force capabilities of holographic optical tweezers. <i>Journal of Biophotonics</i> , 2010, 3, 224-233.	1.1	35
13	The impact of interfractional anatomical changes on the accumulated dose in carbon ion therapy of pancreatic cancer patients. <i>Radiotherapy and Oncology</i> , 2016, 119, 319-325.	0.3	34
14	Considerable pancreatic tumor motion during breath-holding. <i>Acta Oncologica</i> , 2016, 55, 1360-1368.	0.8	32
15	Limited Role for Biliary Stent as Surrogate Fiducial Marker in Pancreatic Cancer: Stent and Intratumoral Fiducials Compared. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014, 89, 641-648.	0.4	26
16	Comparing the dosimetric impact of interfractional anatomical changes in photon, proton and carbon ion radiotherapy for pancreatic cancer patients. <i>Physics in Medicine and Biology</i> , 2017, 62, 3051-3064.	1.6	26
17	Addition of MRI for CT-based pancreatic tumor delineation: a feasibility study. <i>Acta Oncologica</i> , 2017, 56, 923-930.	0.8	23
18	Interinstitutional variations of sensitometric curves of radiographic dosimetric films. <i>Medical Physics</i> , 2002, 29, 1772-1780.	1.6	20

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19	Dosimetric Advantages of Midventilation Compared With Internal Target Volume for Radiation Therapy of Pancreatic Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2015, 92, 675-682.	0.4	19
20	Considerable interobserver variation in delineation of pancreatic cancer on 3DCT and 4DCT: a multi-institutional study. <i>Radiation Oncology</i> , 2017, 12, 58.	1.2	17
21	Dosimetric effects of anatomical changes during fractionated photon radiation therapy in pancreatic cancer patients. <i>Journal of Applied Clinical Medical Physics</i> , 2017, 18, 142-151.	0.8	14
22	Feasibility of cone beam CT-guided library of plans strategy in pre-operative gastric cancer radiotherapy. <i>Radiotherapy and Oncology</i> , 2020, 149, 49-54.	0.3	12
23	Quantitative assessment of biliary stent artifacts on MR images: Potential implications for target delineation in radiotherapy. <i>Medical Physics</i> , 2016, 43, 5603-5615.	1.6	7
24	Quality assurance of the PREOPANC trial (2012-003181-40) for preoperative radiochemotherapy in pancreatic cancer. <i>Strahlentherapie Und Onkologie</i> , 2017, 193, 630-638.	1.0	7
25	Gastric deformation models for adaptive radiotherapy: Personalized vs population-based strategy. <i>Radiotherapy and Oncology</i> , 2022, 166, 126-132.	0.3	6
26	Probabilistic treatment planning for pancreatic cancer treatment: prospective incorporation of respiratory motion shows only limited dosimetric benefit. <i>Acta Oncologica</i> , 2017, 56, 398-404.	0.8	5
27	Probing the Elasticity of Short Proteins with Optical Tweezers. , 2009, , .		3
28	Effect of gastrointestinal gas on the temperature distribution in pancreatic cancer hyperthermia treatment planning. <i>International Journal of Hyperthermia</i> , 2021, 38, 229-240.	1.1	2
29	Position and Intensity Modulations in Holographic Optical Traps Created by a Liquid Crystal Spatial Light Modulator. , 2009, , .		2
30	Mutual influence of time-shared optical traps studied by means of Video Holographic Microscopy. , 2009, , .		0
31	Response:. <i>Gastrointestinal Endoscopy</i> , 2014, 80, 534.	0.5	0