

Arjen van der Schaaf

List of Publications by Year in descending order

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52

papers

2,176

citations

257450

24

h-index

233421

45

g-index

52

all docs

52

docs citations

52

times ranked

2837

citing authors

#	ARTICLE	IF	CITATIONS
1	Validation and Modification of a Prediction Model for Acute Cardiac Events in Patients With Breast Cancer Treated With Radiotherapy Based on Three-Dimensional Dose Distributions to Cardiac Substructures. <i>Journal of Clinical Oncology</i> , 2017, 35, 1171-1178.	1.6	331
2	Sparing the region of the salivary gland containing stem cells preserves saliva production after radiotherapy for head and neck cancer. <i>Science Translational Medicine</i> , 2015, 7, 305ra147.	12.4	165
3	NTCP models for patient-rated xerostomia and sticky saliva after treatment with intensity modulated radiotherapy for head and neck cancer: The role of dosimetric and clinical factors. <i>Radiotherapy and Oncology</i> , 2012, 105, 101-106.	0.6	149
4	The Quest for Evidence for Proton Therapy: Model-Based Approach and Precision Medicine. <i>International Journal of Radiation Oncology Biology Physics</i> , 2016, 95, 30-36.	0.8	105
5	CT image biomarkers to improve patient-specific prediction of radiation-induced xerostomia and sticky saliva. <i>Radiotherapy and Oncology</i> , 2017, 122, 185-191.	0.6	95
6	The potential of intensity-modulated proton radiotherapy to reduce swallowing dysfunction in the treatment of head and neck cancer: A planning comparative study. <i>Acta Oncologica</i> , 2013, 52, 561-569.	1.8	89
7	Development of a multivariable normal tissue complication probability (NTCP) model for tube feeding dependence after curative radiotherapy/chemo-radiotherapy in head and neck cancer. <i>Radiotherapy and Oncology</i> , 2014, 113, 95-101.	0.6	84
8	The tubarial salivary glands: A potential new organ at risk for radiotherapy. <i>Radiotherapy and Oncology</i> , 2021, 154, 292-298.	0.6	77
9	Clinical Trial Strategies to Compare Protons With Photons. <i>Seminars in Radiation Oncology</i> , 2018, 28, 79-87.	2.2	71
10	Acute symptoms during the course of head and neck radiotherapy or chemoradiation are strong predictors of late dysphagia. <i>Radiotherapy and Oncology</i> , 2015, 115, 56-62.	0.6	66
11	Functional Diffusion Tensor Imaging: Measuring Task-Related Fractional Anisotropy Changes in the Human Brain along White Matter Tracts. <i>PLoS ONE</i> , 2008, 3, e3631.	2.5	66
12	Swallowing sparing intensity modulated radiotherapy (SW-IMRT) in head and neck cancer: Clinical validation according to the model-based approach. <i>Radiotherapy and Oncology</i> , 2016, 118, 298-303.	0.6	55
13	Comprehensive toxicity risk profiling in radiation therapy for head and neck cancer: A new concept for individually optimised treatment. <i>Radiotherapy and Oncology</i> , 2021, 157, 147-154.	0.6	54
14	Multivariate modeling of complications with data driven variable selection: Guarding against overfitting and effects of data set size. <i>Radiotherapy and Oncology</i> , 2012, 105, 115-121.	0.6	53
15	Normal tissue complication probability (NTCP) models for late rectal bleeding, stool frequency and fecal incontinence after radiotherapy in prostate cancer patients. <i>Radiotherapy and Oncology</i> , 2016, 119, 381-387.	0.6	49
16	Impact of Statistical Learning Methods on the Predictive Power of Multivariate Normal Tissue Complication Probability Models. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012, 82, e677-e684.	0.8	46
17	Is the coronary artery calcium score associated with acute coronary events in breast cancer patients treated with radiotherapy?. <i>Radiotherapy and Oncology</i> , 2018, 126, 170-176.	0.6	40
18	Selection of head and neck cancer patients for adaptive radiotherapy to decrease xerostomia. <i>Radiotherapy and Oncology</i> , 2016, 120, 36-40.	0.6	39

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19	Direct use of multivariable normal tissue complication probability models in treatment plan optimisation for individualised head and neck cancer radiotherapy produces clinically acceptable treatment plans. <i>Radiotherapy and Oncology</i> , 2014, 112, 430-436.	0.6	36
20	Statistical Validation of Normal Tissue Complication Probability Models. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012, 84, e123-e129.	0.8	35
21	Embracing Phenomenological Approaches to Normal Tissue Complication Probability Modeling: A Question of Method. <i>International Journal of Radiation Oncology Biology Physics</i> , 2015, 91, 468-471.	0.8	34
22	National Protocol for Model-Based Selection for Proton Therapy in Head and Neck Cancer. <i>International Journal of Particle Therapy</i> , 2021, 8, 354-365.	1.8	32
23	Development and Validation of a Prediction Model for Tube Feeding Dependence after Curative (Chemo-) Radiation in Head and Neck Cancer. <i>PLoS ONE</i> , 2014, 9, e94879.	2.5	31
24	Development of a prediction model for late urinary incontinence, hematuria, pain and voiding frequency among irradiated prostate cancer patients. <i>PLoS ONE</i> , 2018, 13, e0197757.	2.5	26
25	Role of minor salivary glands in developing patient-rated xerostomia and sticky saliva during day and night. <i>Radiotherapy and Oncology</i> , 2013, 109, 311-316.	0.6	25
26	Impact of radiation-induced toxicities on quality of life of patients treated for head and neck cancer. <i>Radiotherapy and Oncology</i> , 2021, 160, 47-53.	0.6	25
27	Key challenges in normal tissue complication probability model development and validation: towards a comprehensive strategy. <i>Radiotherapy and Oncology</i> , 2020, 148, 151-156.	0.6	24
28	Quantitative Comparison of Commercial and Non-Commercial Metal Artifact Reduction Techniques in Computed Tomography. <i>PLoS ONE</i> , 2015, 10, e0127932.	2.5	23
29	Pre-treatment radiomic features predict individual lymph node failure for head and neck cancer patients. <i>Radiotherapy and Oncology</i> , 2020, 146, 58-65.	0.6	23
30	Patient-Reported Toxicity and Quality-of-Life Profiles in Patients With Head and Neck Cancer Treated With Definitive Radiation Therapy or Chemoradiation. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021, 111, 456-467.	0.8	23
31	Parotid Gland Stem Cell Sparing Radiation Therapy for Patients With Head and Neck Cancer: A Double-Blind Randomized Controlled Trial. <i>International Journal of Radiation Oncology Biology Physics</i> , 2022, 112, 306-316.	0.8	22
32	The Importance of Radiation Dose to the Atherosclerotic Plaque in the Left Anterior Descending Coronary Artery for Radiation-Induced Cardiac Toxicity of Breast Cancer Patients?. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021, 110, 1350-1359.	0.8	21
33	Feasibility and accuracy of tissue characterization with dual source computed tomography. <i>Physica Medica</i> , 2012, 28, 25-32.	0.7	20
34	Head and neck IMPT probabilistic dose accumulation: Feasibility of a 2Âmm setup uncertainty setting. <i>Radiotherapy and Oncology</i> , 2021, 154, 45-52.	0.6	18
35	Multivariable normal tissue complication probability model-based treatment plan optimization for grade 2-4 dysphagia and tube feeding dependence in head and neck radiotherapy. <i>Radiotherapy and Oncology</i> , 2016, 121, 374-380.	0.6	15
36	External validation of a multifactorial normal tissue complication probability model for tube feeding dependence at 6 months after definitive radiotherapy for head and neck cancer. <i>Radiotherapy and Oncology</i> , 2018, 129, 403-408.	0.6	14

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37	Development of Normal Tissue Complication Probability Model for Trismus in Head and Neck Cancer Patients Treated With Radiotherapy: The Role of Dosimetric and Clinical Factors. <i>Anticancer Research</i> , 2019, 39, 6787-6798.	1.1	12
38	Performance of binary prediction models in high-correlation low-dimensional settings: a comparison of methods. <i>Diagnostic and Prognostic Research</i> , 2022, 6, 1.	1.8	11
39	Working memory deficits after resection of the dorsolateral prefrontal cortex predicted by functional magnetic resonance imaging and electrocortical stimulation mapping. <i>Journal of Neurosurgery: Pediatrics</i> , 2007, 106, 501-505.	1.3	10
40	Feasibility of patient specific quality assurance for proton therapy based on independent dose calculation and predicted outcomes. <i>Radiotherapy and Oncology</i> , 2020, 150, 136-141.	0.6	10
41	The tubarial glands paper: A starting point. A reply to comments. <i>Radiotherapy and Oncology</i> , 2021, 154, 308-311.	0.6	10
42	Present developments in reaching an international consensus for a model-based approach to particle beam therapy. <i>Journal of Radiation Research</i> , 2018, 59, i72-i76.	1.6	8
43	Can the mean linear energy transfer of organs be directly related to patient toxicities for current head and neck cancer intensity-modulated proton therapy practice?. <i>Radiotherapy and Oncology</i> , 2021, 165, 159-165.	0.6	7
44	Comparison of Acute and Subacute Genitourinary and Gastrointestinal Adverse Events of Radiotherapy for Prostate Cancer Using Intensity-modulated Radiation Therapy, Three-dimensional Conformal Radiation Therapy, Permanent Implant Brachytherapy and High-dose-rate Brachytherapy. <i>Tumori</i> , 2014, 100, 265-271.	1.1	5
45	Validation of separate multi-atlases for auto segmentation of cardiac substructures in CT-scans acquired in deep inspiration breath hold and free breathing. <i>Radiotherapy and Oncology</i> , 2021, 163, 46-54.	0.6	5
46	A Decision Support Tool to Optimize Selection of Head and Neck Cancer Patients for Proton Therapy. <i>Cancers</i> , 2022, 14, 681.	3.7	5
47	Updating Photon-Based Normal Tissue Complication Probability Models for Pneumonitis in Patients With Lung Cancer Treated With Proton Beam Therapy. <i>Practical Radiation Oncology</i> , 2020, 10, e330-e338.	2.1	4
48	Development of advanced preselection tools to reduce redundant plan comparisons in model-based selection of head and neck cancer patients for proton therapy. <i>Radiotherapy and Oncology</i> , 2021, 160, 61-68.	0.6	4
49	Quality of life and toxicity guided treatment plan optimisation for head and neck cancer. <i>Radiotherapy and Oncology</i> , 2021, 162, 85-90.	0.6	3
50	Relationship between videofluoroscopic and subjective (physician- and patient- rated) assessment of late swallowing dysfunction after (chemo) radiation: Results of a prospective observational study. <i>Radiotherapy and Oncology</i> , 2021, 164, 253-260.	0.6	1
51	Existing radiotherapy dose quantification methods in published late effects studies: a review of the literature. <i>Tijdschrift Voor Kindergeneeskunde</i> , 2013, 81, 67-68.	0.0	0
52	In Reply to Sari and Yazici. <i>International Journal of Radiation Oncology Biology Physics</i> , 2022, 112, 1291-1293.	0.8	0