

# Henk Huizenga

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/3897534/henk-huizenga-publications-by-citations.pdf>

**Version:** 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

47  
papers

1,926  
citations

23  
h-index

43  
g-index

48  
ext. papers

2,072  
ext. citations

2.4  
avg, IF

4.05  
L-index

#	Paper	IF	Citations
47	Inclusion of geometrical uncertainties in radiotherapy treatment planning by means of coverage probability. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>1999</b> , 43, 905-19	4	579
46	Portal dose measurement in radiotherapy using an electronic portal imaging device (EPID). <i>Physics in Medicine and Biology</i> , <b>1995</b> , 40, 1943-55	3.8	107
45	Accuracy in radiation field alignment in head and neck cancer: a prospective study. <i>Radiotherapy and Oncology</i> , <b>1988</b> , 11, 181-7	5.3	88
44	Do patients with localized prostate cancer treatment really want more aggressive treatment?. <i>Journal of Clinical Oncology</i> , <b>2006</b> , 24, 4581-6	2.2	72
43	A quality control study of the accuracy of patient positioning in irradiation of pelvic fields. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>1996</b> , 34, 697-708	4	71
42	Pathological fracture prediction in patients with metastatic lesions can be improved with quantitative computed tomography based computer models. <i>Bone</i> , <b>2009</b> , 45, 777-83	4.7	67
41	Doctors and patients preferences for participation and treatment in curative prostate cancer radiotherapy. <i>Journal of Clinical Oncology</i> , <b>2007</b> , 25, 3096-100	2.2	67
40	Performance of a prototype fluoroscopic radiotherapy imaging system. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>1990</b> , 18, 43-50	4	61
39	Derivative-free generation and interpolation of convex Pareto optimal IMRT plans. <i>Physics in Medicine and Biology</i> , <b>2006</b> , 51, 6349-69	3.8	44
38	Numerical calculation of energy deposition by broad high-energy electron beams. <i>Physics in Medicine and Biology</i> , <b>1989</b> , 34, 1371-96	3.8	42
37	Set-up improvement in head and neck radiotherapy using a 3D off-line EPID-based correction protocol and a customised head and neck support. <i>Radiotherapy and Oncology</i> , <b>2003</b> , 68, 137-48	5.3	41
36	Systematic review of the effect of radiation dose on tumor control and morbidity in the treatment of prostate cancer by 3D-CRT. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2006</b> , 64, 534-43	4.3	38
35	How flatbed scanners upset accurate film dosimetry. <i>Physics in Medicine and Biology</i> , <b>2016</b> , 61, 625-49	3.8	37
34	Do prostate cancer patients want to choose their own radiation treatment?. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2006</b> , 66, 1105-11	4	37
33	Offering a treatment choice in the irradiation of prostate cancer leads to better informed and more active patients, without harm to well-being. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2008</b> , 70, 442-8	4	36
32	Convex reformulation of biologically-based multi-criteria intensity-modulated radiation therapy optimization including fractionation effects. <i>Physics in Medicine and Biology</i> , <b>2008</b> , 53, 6345-62	3.8	35
31	The in-air scattering of clinical electron beams as produced by accelerators with scanning beams and diaphragm collimators. <i>Physics in Medicine and Biology</i> , <b>1987</b> , 32, 1011-29	3.8	32

30	Individualized dose prescription for hypofractionation in advanced non-small-cell lung cancer radiotherapy: an in silico trial. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2012</b> , 83, 1596-602	4	29
29	A model to determine the initial phase space of a clinical electron beam from measured beam data. <i>Physics in Medicine and Biology</i> , <b>2001</b> , 46, 269-86	3.8	29
28	Three-dimensional dose distribution of tangential breast treatment: a national dosimetry intercomparison. <i>Radiotherapy and Oncology</i> , <b>1991</b> , 22, 252-60	5.3	29
27	On a numerical approach of the pencil beam model. <i>Physics in Medicine and Biology</i> , <b>1985</b> , 30, 467-473	3.8	27
26	Clinical validation of the normalized mutual information method for registration of CT and MR images in radiotherapy of brain tumors. <i>Journal of Applied Clinical Medical Physics</i> , <b>2004</b> , 5, 66-79	2.3	26
25	In vivo determination of the accuracy of field matching in breast cancer irradiation using an electronic portal imaging device. <i>Radiotherapy and Oncology</i> , <b>1994</b> , 33, 157-66	5.3	25
24	Effectiveness of couch height-based patient set-up and an off-line correction protocol in prostate cancer radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2001</b> , 50, 569-77	4	23
23	Guidelines for education and training of medical physicists in radiotherapy. Recommendations from an ESTRO/EFOMP working group. <i>Radiotherapy and Oncology</i> , <b>2004</b> , 70, 125-35	5.3	22
22	Effect of set-up uncertainties on the dose distribution in the match region of supraclavicular and tangential breast fields. <i>Radiotherapy and Oncology</i> , <b>1998</b> , 46, 91-8	5.3	22
21	Numerical calculation of energy deposition by high-energy electron beams: III. Three-dimensional heterogeneous media. <i>Physics in Medicine and Biology</i> , <b>1994</b> , 39, 1351-66	3.8	22
20	Numerical calculation of energy deposition by broad high-energy electron beams: II. Multi-layered geometry. <i>Physics in Medicine and Biology</i> , <b>1992</b> , 37, 2103-2116	3.8	22
19	Physical characteristics of a commercial electronic portal imaging device. <i>Medical Physics</i> , <b>1996</b> , 23, 1845-55	4.5	21
18	Scattered radiation from applicators in clinical electron beams. <i>Physics in Medicine and Biology</i> , <b>2003</b> , 48, 2493-507	3.8	19
17	Investigation of the added value of high-energy electrons in intensity-modulated radiotherapy: four clinical cases. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2002</b> , 52, 236-53	4	18
16	Numerical calculation of energy deposition by high-energy electron beams: III-B. Improvements to the 6D phase space evolution model. <i>Physics in Medicine and Biology</i> , <b>1997</b> , 42, 1441-9	3.8	17
15	Mixing intensity modulated electron and photon beams: combining a steep dose fall-off at depth with sharp and depth-independent penumbras and flat beam profiles. <i>Physics in Medicine and Biology</i> , <b>1999</b> , 44, 2171-81	3.8	17
14	Submicron entrance windows for an ultrasoft x-ray camera. <i>Review of Scientific Instruments</i> , <b>1981</b> , 52, 673-677	1.7	14
13	A Parallel Grid Imaging Proportional Counter Optimized for Detection of Low Brightness Stellar XUV-Sources. <i>IEEE Transactions on Nuclear Science</i> , <b>1980</b> , 27, 176-180	1.7	13

12	The curvature of sensitometric curves for Kodak XV-2 film irradiated with photon and electron beams. <i>Medical Physics</i> , <b>2006</b> , 33, 2396-403	4.4	10
11	Optimization of multileaf collimator settings for radiotherapy treatment planning. <i>Physics in Medicine and Biology</i> , <b>2000</b> , 45, 3615-25	3.8	10
10	Sharpening the penumbra of high energy electron beams with low weight narrow photon beams. <i>Radiotherapy and Oncology</i> , <b>1998</b> , 48, 213-20	5.3	10
9	Phase space evolution distribution functions for high energy electron beams. <i>Physics in Medicine and Biology</i> , <b>1996</b> , 41, 2079-90	3.8	9
8	On the initial angular variances of clinical electron beams. <i>Physics in Medicine and Biology</i> , <b>1999</b> , 44, 2803-20	3.20	9
7	Employing the therapeutic operating characteristic (TOC) graph for individualised dose prescription. <i>Radiation Oncology</i> , <b>2013</b> , 8, 55	4.2	7
6	A practical approach to assess clinical planning tradeoffs in the design of individualized IMRT treatment plans. <i>Radiotherapy and Oncology</i> , <b>2010</b> , 97, 561-6	5.3	7
5	eNAL++: a new and effective off-line correction protocol for rotational setup errors when using a robotic couch. <i>Journal of Applied Clinical Medical Physics</i> , <b>2015</b> , 16, 177-185	2.3	4
4	Accuracy of the phase space evolution dose calculation model for clinical 25 MeV electron beams. <i>Physics in Medicine and Biology</i> , <b>2000</b> , 45, 2931-45	3.8	4
3	An anatomically shaped lower body model for CT scanning of cadaver femurs. <i>Physics in Medicine and Biology</i> , <b>2010</b> , 55, N57-62	3.8	3
2	Possible leakage radiation during malfunctioning of a Sagittaire accelerator. <i>Radiotherapy and Oncology</i> , <b>1993</b> , 29, 39-44	5.3	3
1	Camera-based independent couch height verification in radiation oncology. <i>Journal of Applied Clinical Medical Physics</i> , <b>2015</b> , 16, 442-446	2.3	