

Frank Van den Heuvel

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.

92
papers

1,677
citations

22
h-index

39
g-index

126
ext. papers

1,905
ext. citations

3.2
avg, IF

4.13
L-index

#	Paper	IF	Citations
92	Pediatric Outcome after Maternal Cancer Diagnosed during Pregnancy. <i>New England Journal of Medicine</i> , 2015 , 373, 1824-34	59.2	201
91	Gynecologic cancers in pregnancy: guidelines of a second international consensus meeting. <i>International Journal of Gynecological Cancer</i> , 2014 , 24, 394-403	3.5	135
90	Routine clinical on-line portal imaging followed by immediate field adjustment using a tele-controlled patient couch. <i>Radiotherapy and Oncology</i> , 1992 , 24, 45-54	5.3	104
89	Electronic portal imaging with on-line correction of setup error in thoracic irradiation: clinical evaluation. <i>International Journal of Radiation Oncology Biology Physics</i> , 1998 , 40, 967-76	4	90
88	Independent verification of ultrasound based image-guided radiation treatment, using electronic portal imaging and implanted gold markers. <i>Medical Physics</i> , 2003 , 30, 2878-87	4.4	86
87	Interactive use of on-line portal imaging in pelvic radiation. <i>International Journal of Radiation Oncology Biology Physics</i> , 1993 , 25, 517-24	4	64
86	The benefits of including clinical factors in rectal normal tissue complication probability modeling after radiotherapy for prostate cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012 , 82, 1233-42	4	57
85	Prostate post-implant dosimetry: interobserver variability in seed localisation, contouring and fusion. <i>Radiotherapy and Oncology</i> , 2012 , 104, 192-8	5.3	52
84	Hematologic Malignancies in Pregnancy: Management Guidelines From an International Consensus Meeting. <i>Journal of Clinical Oncology</i> , 2016 , 34, 501-8	2.2	49
83	Calibrating page sized Gafchromic EBT3 films. <i>Medical Physics</i> , 2013 , 40, 012102	4.4	47
82	Clinical application of a repositioning scheme, using gold markers and electronic portal imaging. <i>Radiotherapy and Oncology</i> , 2006 , 79, 94-100	5.3	44
81	RapidArc, SmartArc and TomoHD compared with classical step and shoot and sliding window intensity modulated radiotherapy in an oropharyngeal cancer treatment plan comparison. <i>Radiation Oncology</i> , 2013 , 8, 37	4.2	42
80	Beam energy considerations for gold nano-particle enhanced radiation treatment. <i>Physics in Medicine and Biology</i> , 2010 , 55, 4509-20	3.8	40
79	Primary brain tumours, meningiomas and brain metastases in pregnancy: report on 27 cases and review of literature. <i>European Journal of Cancer</i> , 2014 , 50, 1462-71	7.5	39
78	Quantification of radiation-induced lung damage with CT scans: the possible benefit for radiogenomics. <i>Acta Oncologica</i> , 2013 , 52, 1405-10	3.2	38
77	Intensity-modulated radiotherapy for locally advanced non-small-cell lung cancer: a dose-escalation planning study. <i>International Journal of Radiation Oncology Biology Physics</i> , 2011 , 80, 306-13	4	35
76	Clinical implementation of an objective computer-aided protocol for intervention in intra-treatment correction using electronic portal imaging. <i>Radiotherapy and Oncology</i> , 1995 , 35, 232-9	5.3	35

75	Intrafractional prostate motion during online image guided intensity-modulated radiotherapy for prostate cancer. <i>Radiotherapy and Oncology</i> , 2011 , 98, 181-6	5.3	34
74	Quantitative evaluation of a beam-matching procedure using one-dimensional gamma analysis. <i>Medical Physics</i> , 2007 , 34, 2917-27	4.4	31
73	Accuracy of seed reconstruction in prostate postplanning studied with a CT- and MRI-compatible phantom. <i>Radiotherapy and Oncology</i> , 2006 , 79, 190-7	5.3	29
72	On-line portal imaging: image quality defining parameters for pelvic fields--a clinical evaluation. <i>International Journal of Radiation Oncology Biology Physics</i> , 1993 , 27, 945-52	4	25
71	Clinical brachytherapy with neutron emitting ²⁵² Cf sources and adherence to AAPM TG-43 dosimetry protocol. <i>Medical Physics</i> , 1999 , 26, 87-96	4.4	23
70	Out-of-field contributions for IMRT and volumetric modulated arc therapy measured using gafchromic films and compared to calculations using a superposition/convolution based treatment planning system. <i>Radiotherapy and Oncology</i> , 2012 , 105, 127-32	5.3	21
69	IMRT-based optimization approaches for volumetric modulated single arc radiotherapy planning. <i>Radiotherapy and Oncology</i> , 2010 , 95, 149-52	5.3	18
68	Fast, accurate, and robust automatic marker detection for motion correction based on oblique kV or MV projection image pairs. <i>Medical Physics</i> , 2010 , 37, 1554-64	4.4	18
67	Dependence of Gold Nanoparticle Radiosensitization on Functionalizing Layer Thickness. <i>Radiation Research</i> , 2016 , 185, 384-92	3.1	16
66	Modeling early haematologic adverse events in conformal and intensity-modulated pelvic radiotherapy in anal cancer. <i>Radiotherapy and Oncology</i> , 2015 , 117, 246-51	5.3	16
65	CT- and MRI-based seed localization in postimplant evaluation after prostate brachytherapy. <i>Brachytherapy</i> , 2013 , 12, 580-8	2.4	16
64	On the determination of the effective transmission factor for stainless steel ovoid shielding segments and estimation of their shielding efficacy for the clinical situation. <i>Medical Physics</i> , 1994 , 21, 1677-84	4.4	15
63	Relations of image quality in on-line portal images and individual patient parameters for pelvic field radiotherapy. <i>European Radiology</i> , 1992 , 2, 433-438	8	14
62	Proton vs photon: A model-based approach to patient selection for reduction of cardiac toxicity in locally advanced lung cancer. <i>Radiotherapy and Oncology</i> , 2020 , 152, 151-162	5.3	14
61	The photon dose calculation algorithm used in breast radiotherapy has significant impact on the parameters of radiobiological models. <i>Journal of Applied Clinical Medical Physics</i> , 2014 , 15, 259-269	2.3	12
60	Peripheral doses in radiotherapy: A comparison between IMRT, VMAT and Tomotherapy. <i>Radiation Measurements</i> , 2013 , 57, 62-67	1.5	12
59	Dosimetric adaptive IMRT driven by fiducial points. <i>Medical Physics</i> , 2014 , 41, 061716	4.4	12
58	Tongue cancers during pregnancy: Case reports and review of literature. <i>Head and Neck</i> , 2013 , 35, E102-8.2	4.2	11

57	A semi-automated 2D/3D marker-based registration algorithm modelling prostate shrinkage during radiotherapy for prostate cancer. <i>Radiotherapy and Oncology</i> , 2009 , 90, 331-6	5-3	11
56	Online adaptation and verification of VMAT. <i>Medical Physics</i> , 2015 , 42, 3877-91	4-4	10
55	Intensity modulated neutron radiotherapy for the treatment of adenocarcinoma of the prostate. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007 , 68, 1546-56	4	10
54	Decomposition analysis of differential dose volume histograms. <i>Medical Physics</i> , 2006 , 33, 297-307	4-4	9
53	Clinical implementation of electronic portal imaging: correction strategies and set-up errors. <i>Bulletin Du Cancer Radiotherapie: Journal De La Societe Francaise Du Cancer: Organe De La Societe Francaise De Radiotherapie Oncologique</i> , 1996 , 83, 401-5		9
52	Response of FDG avid pelvic bone marrow to concurrent chemoradiation for anal cancer. <i>Radiotherapy and Oncology</i> , 2020 , 143, 19-23	5-3	9
51	¹⁸ F-FLT and ¹⁸ F-FDG PET to measure response to radiotherapy combined with celecoxib in two colorectal xenograft models. <i>International Journal of Radiation Biology</i> , 2009 , 85, 763-71	2-9	8
50	Dynamic radiotherapy: interactive movement of patient couch for treatment of craniospinal axis. <i>International Journal of Radiation Oncology Biology Physics</i> , 1996 , 35, 771-7	4	8
49	Conformal locoregional breast irradiation with an oblique parasternal photon field technique. <i>Medical Dosimetry</i> , 2011 , 36, 28-34	1-3	7
48	Technical Note: Defining cyclotron-based clinical scanning proton machines in a FLUKA Monte Carlo system. <i>Medical Physics</i> , 2018 , 45, 963-970	4-4	6
47	Companding technique for high dynamic range measurements using Gafchromic films. <i>Medical Physics</i> , 2011 , 38, 6443-8	4-4	6
46	Point/counterpoint. Radiotherapy physicists have become glorified technicians rather than clinical scientists. <i>Medical Physics</i> , 2010 , 37, 1379-81	4-4	6
45	Independent prostate motion as measured by daily BAT ultrasound and electronic portal imaging. <i>International Journal of Radiation Oncology Biology Physics</i> , 2001 , 51, 215	4	5
44	TH-E-BRB-03: Incorporating a Lateral Scan Effect Correction in a EBT3 Calibration Protocol. <i>Medical Physics</i> , 2012 , 39, 4009-4009	4-4	5
43	A systematic review of health economic evaluations of proton beam therapy for adult cancer: Appraising methodology and quality. <i>Clinical and Translational Radiation Oncology</i> , 2020 , 20, 19-26	4-6	5
42	Efficacy and workload analysis of a fixed vertical couch position technique and a fixed-action-level protocol in whole-breast radiotherapy. <i>Journal of Applied Clinical Medical Physics</i> , 2015 , 16, 5265	2-3	4
41	A closed parameterization of DNA-damage by charged particles, as a function of energy - a geometrical approach. <i>PLoS ONE</i> , 2014 , 9, e110333	3-7	4
40	Stereotactic body radiotherapy for moderately central and ultra-central oligometastatic disease: Initial outcomes. <i>Technical Innovations and Patient Support in Radiation Oncology</i> , 2020 , 13, 24-30	1-9	4

39	Potential benefits of dosimetric VMAT tracking verified with 3D film measurements. <i>Medical Physics</i> , 2016 , 43, 2162	4.4	4
38	Quantifying target-specific motion in anal cancer patients treated with intensity modulated radiotherapy (IMRT). <i>Radiotherapy and Oncology</i> , 2016 , 121, 92-97	5.3	4
37	Accuracy of a new paired imaging technique for position correction in whole breast radiotherapy. <i>Journal of Applied Clinical Medical Physics</i> , 2015 , 16, 4796	2.3	3
36	Point/Counterpoint. Within the next 10-15 years protons will likely replace photons as the most common type of radiation for curative radiotherapy. <i>Medical Physics</i> , 2008 , 35, 4285-8	4.4	3
35	Evaluation of an ultrasoundguided prostate positioning system using implanted gold markers. <i>International Journal of Radiation Oncology Biology Physics</i> , 2002 , 54, 178-179	4	3
34	Development and clinical implementation of an enhanced display algorithm for use in networked electronic portal imaging. <i>International Journal of Radiation Oncology Biology Physics</i> , 1999 , 45, 1041-53	4	3
33	Is an analytical dose engine sufficient for intensity modulated proton therapy in lung cancer?. <i>British Journal of Radiology</i> , 2020 , 93, 20190583	3.4	3
32	High Quality Clinical Stereotactic Radiosurgery Planning and Delivery With Standard Resolution (5 mm) Multileaf Collimation and Multiple Isocenters. <i>Practical Radiation Oncology</i> , 2020 , 10, 293-300	2.8	3
31	Impact of abdominal compression on setup error and image matching during radical abdominal radiotherapy. <i>Technical Innovations and Patient Support in Radiation Oncology</i> , 2019 , 12, 28-33	1.9	3
30	Development of robustness evaluation strategies for enabling statistically consistent reporting. <i>Physics in Medicine and Biology</i> , 2021 , 66, 045002	3.8	3
29	Robustness assessment using probabilistic scenarios of intensity modulated proton therapy and volumetric arc therapy in non-small-cell lung cancer: an in-silico radiotherapy planning study. <i>Lancet, The</i> , 2017 , 389, S94	4.0	2
28	EP-1458: Proton breast treatments: eclipse vs Monte Carlo Fluka dose comparison study. <i>Radiotherapy and Oncology</i> , 2015 , 115, S790	5.3	2
27	Assessment of robustness against setup uncertainties using probabilistic scenarios in lung cancer: a comparison of proton with photon therapy. <i>British Journal of Radiology</i> , 2020 , 93, 20190584	3.4	2
26	327 oral A RELIABLE AND FAST (REAL-TIME) POSITIONING SYSTEM (NAVOTEK(r)) REDUCES THE OVERALL TIME PER TREATMENT SESSION.. <i>Radiotherapy and Oncology</i> , 2011 , 99, S131	5.3	2
25	Correlating setup errors and patient individual parameters. <i>Radiotherapy and Oncology</i> , 1996 , 41, 95-6	5.3	2
24	Image enhancement techniques allowing observation of intra-fractional motion in IMRT treatment for prostate carcinoma. <i>IFMBE Proceedings</i> , 2009 , 840-843	0.2	2
23	Using stable distributions to characterize proton pencil beams. <i>Medical Physics</i> , 2018 , 45, 2278-2288	4.4	1
22	In modern linacs monitor units should be defined in water at 10cm depth rather than at d. <i>Medical Physics</i> , 2018 , 45, 4789-4792	4.4	1

21	SU-FF-T-147: Intra Fractional Motion in Clinical IMRT Prostate Treatments, Warrants the Use of Faster Treatment Techniques. <i>Medical Physics</i> , 2009 , 36, 2554-2554	4.4	1
20	SU-E-J-138: Fast 2-D Fiducial Marker Detection on Sequential MV Projections in Arc Therapy. <i>Medical Physics</i> , 2012 , 39, 3684	4.4	1
19	SU-FF-T-162: Does the Implementation of Electron Monte Carlo Simulation Based Treatment Planning Have Radiobiologically Significant Ramifications?. <i>Medical Physics</i> , 2007 , 34, 2438-2438	4.4	1
18	SU-F-BRD-04: Robustness Analysis of Proton Breast Treatments Using An Alpha-Stable Distribution Parameterization. <i>Medical Physics</i> , 2015 , 42, 3526-3526	4.4	0
17	TU-G-BRCD-03: Managing Patient and Organ Motion in Proton Therapy. <i>Medical Physics</i> , 2012 , 39, 3919	4.4	0
16	SU-FF-T-05: Interactive CT Based Seed Visualization, Localization and Verification in 3D. <i>Medical Physics</i> , 2005 , 32, 1950-1950	4.4	
15	SU-FF-T-163: Quantitative Verification of IMRT Intensity Maps Using An Amorphous Silicon Electronic Portal Imager. <i>Medical Physics</i> , 2005 , 32, 1987-1987	4.4	
14	SU-FF-T-67: A TG43 Methodology to Describe Iridium-Wires with Variable Length. <i>Medical Physics</i> , 2006 , 33, 2064-2064	4.4	
13	SU-FF-J-18: Image Guided Neutron Therapy: A Six Degree Correction Method Using Implanted Fiducial Markers. <i>Medical Physics</i> , 2007 , 34, 2372-2372	4.4	
12	SU-GG-T-214: On Technical Aspects of the Implementation of a New Respiratory Gating System with the Option of Three-Dimensional Tracking of a Surrogate's Motion Via a Wall-Mounted Camera. <i>Medical Physics</i> , 2008 , 35, 2774-2774	4.4	
11	WE-C-AUD B-10: Which Patients Benefit From Prospective Gating in Treatment for Loco-Regional Breast Irradiation: A Radiobiological Assessment. <i>Medical Physics</i> , 2008 , 35, 2935-2935	4.4	
10	SU-E-T-523: On the Radiobiological Impact of Lateral Scatter in Proton Beams. <i>Medical Physics</i> , 2014 , 41, 347-347	4.4	
9	SU-GG-T-132: Evaluation of Hybrid Plan IMRT QA with a 2D Ionization Chamber Array. <i>Medical Physics</i> , 2008 , 35, 2756-2756	4.4	
8	SU-FF-T-133: RapidArc™: Commissioning and Dose Escalation Possibilities. <i>Medical Physics</i> , 2009 , 36, 2550-2550	4.4	
7	SU-GG-J-124: On the Search of the Ideal Radiation Source for Gold Nano-Particle Enhanced Radiation Treatment. <i>Medical Physics</i> , 2010 , 37, 3174-3174	4.4	
6	WE-A-204B-01: Possible Causes for the Reduced Efficacy of US Based Image Guided Treatment of Prostate Cancer with External Beam Radiation Therapy. <i>Medical Physics</i> , 2010 , 37, 3411-3411	4.4	
5	SU-GG-T-251: Evaluating Dose Measurements of Rotational Treatment Techniques. <i>Medical Physics</i> , 2010 , 37, 3243-3243	4.4	
4	TU-D-204B-08: A Setup for Patient Individual KV CBCT Scatter Prediction Using Monte Carlo Simulations. <i>Medical Physics</i> , 2010 , 37, 3395-3395	4.4	

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| 3 | SU-E-T-519: Reduction of Matching Errors Due to Variations of Breathing Patterns in Gated Breast Treatments. <i>Medical Physics</i> , 2011 , 38, 3608-3608 | 4-4 |
| 2 | SU-E-T-484: A Closed Parameterization of Microscopic Damage as a Function of Energy in Dose Deposition by Charged Particles. <i>Medical Physics</i> , 2013 , 40, 317-317 | 4-4 |
| 1 | SU-E-T-562: Do the Differences Between Photon Dose Distributions in the Breast Have Significant Impact On the Parameters of Radiobiological Models?. <i>Medical Physics</i> , 2013 , 40, 335-335 | 4-4 |