Annette Haworth

List of Publications by Year in descending order

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117 papers	2,546 citations	201575 27 h-index	233338 45 g-index
119 all docs	119 docs citations	119 times ranked	2448 citing authors

#	Article	IF	Citations
1	Current status of intra-cranial stereotactic radiotherapy and stereotactic radiosurgery in Australia and New Zealand: key considerations from a workshop and surveys. Physical and Engineering Sciences in Medicine, 2022, 45, 251-259.	1.3	3
2	In Regard to Shortall et al. International Journal of Radiation Oncology Biology Physics, 2022, 112, 831-833.	0.4	1
3	A statistical, voxelised model of prostate cancer for biologically optimised radiotherapy. Physics and Imaging in Radiation Oncology, 2022, 21, 136-145.	1.2	8
4	Evaluating the utility of knowledge-based planning for clinical trials using the TROG 08.03 post prostatectomy radiation therapy planning data. Physics and Imaging in Radiation Oncology, 2022, 22, 91-97.	1.2	1
5	MRI radiomics in the prediction of therapeutic response to neoadjuvant therapy for locoregionally advanced rectal cancer: a systematic review. Expert Review of Anticancer Therapy, 2021, 21, 425-449.	1.1	14
6	Use of deformable image registration techniques to estimate dose to organs at risk following prostate external beam radiation therapy and high-dose-rate brachytherapy. Journal of Contemporary Brachytherapy, 2021, 13, 72-79.	0.4	3
7	Artificial intelligence and imaging biomarkers for prostate radiation therapy during and after treatment. Journal of Medical Imaging and Radiation Oncology, 2021, 65, 612-626.	0.9	3
8	A review of medical image data augmentation techniques for deep learning applications. Journal of Medical Imaging and Radiation Oncology, 2021, 65, 545-563.	0.9	297
9	Artificial intelligence in medical imaging and radiation oncology: Opportunities and challenges. Journal of Medical Imaging and Radiation Oncology, 2021, 65, 481-485.	0.9	7
10	Biologically Targeted Radiation Therapy: Incorporating Patient-Specific Hypoxia Data Derived from Quantitative Magnetic Resonance Imaging. Cancers, 2021, 13, 4897.	1.7	9
11	Automatic radiotherapy delineation quality assurance on prostate MRI with deep learning in a multicentre clinical trial. Physics in Medicine and Biology, 2021, 66, 195008.	1.6	7
12	Low-dose-rate iodine-125 seed air kerma strength measurement intercomparison. Brachytherapy, 2020, 19, 119-125.	0.2	0
13	Adjuvant radiotherapy versus early salvage radiotherapy following radical prostatectomy (TROG) Tj ETQq1 1 0.784314 rgBT /Overlock 1(2020, 21, 1331-1340.	5.1	197
14	Will COVID-19 change the way we teach medical physics post pandemic?. Physical and Engineering Sciences in Medicine, 2020, 43, 735-738.	1.3	5
15	Increased Dose to Organs in Urinary Tract Associates With Measures of Genitourinary Toxicity in Pooled Voxel-Based Analysis of 3 Randomized Phase III Trials. Frontiers in Oncology, 2020, 10, 1174.	1.3	10
16	Reduced Dose Posterior to Prostate Correlates With Increased PSA Progression in Voxel-Based Analysis of 3 Randomized Phase 3 Trials. International Journal of Radiation Oncology Biology Physics, 2020, 108, 1304-1318.	0.4	9
17	Relationships between rectal and perirectal doses and rectal bleeding or tenesmus in pooled voxel-based analysis of 3 randomised phase III trials. Radiotherapy and Oncology, 2020, 150, 281-292.	0.3	5
18	Deforming to Best Practice: Key considerations for deformable image registration in radiotherapy. Journal of Medical Radiation Sciences, 2020, 67, 318-332.	0.8	15

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19	Radiation Dose Escalation or Longer Androgen Suppression to Prevent Distant Progression in Men With Locally Advanced Prostate Cancer: 10-Year Data From the TROG 03.04 RADAR Trial. International Journal of Radiation Oncology Biology Physics, 2020, 106, 693-702.	0.4	48
20	Stereotactic ablative body radiation therapy (SABR) in NSW. Physical and Engineering Sciences in Medicine, 2020, 43, 641-650.	1.3	5
21	Progress towards Patient-Specific, Spatially-Continuous Radiobiological Dose Prescription and Planning in Prostate Cancer IMRT: An Overview. Cancers, 2020, 12, 854.	1.7	7
22	Association analysis between quantitative MRI features and hypoxia-related genetic profiles in prostate cancer: a pilot study. British Journal of Radiology, 2019, 92, 20190373.	1.0	23
23	Automatic stratification of prostate tumour aggressiveness using multiparametric MRI: a horizontal comparison of texture features. Acta OncolÃ³gica, 2019, 58, 1118-1126.	0.8	13
24	Use of contemporary prostate brachytherapy approaches in clinical trials. Journal of Physics: Conference Series, 2019, 1154, 012010.	0.3	0
25	Contour variation is a primary source of error when delivering post prostatectomy radiotherapy: Results of the Transâ€Tasman Radiation Oncology Group 08.03 Radiotherapy Adjuvant Versus Early Salvage (RAVES) benchmarking exercise. Journal of Medical Imaging and Radiation Oncology, 2019, 63, 390-398.	0.9	13
26	Multiparametric MRI and radiomics in prostate cancer: a review. Australasian Physical and Engineering Sciences in Medicine, 2019, 42, 3-25.	1.4	87
27	Women and men in the Australasian College of Physical Scientists and Engineers in Medicine: workforce survey. Australasian Physical and Engineering Sciences in Medicine, 2019, 42, 33-41.	1.4	4
28	Voxelâ€wise correlation of positron emission tomography/computed tomography with multiparametric magnetic resonance imaging and histology of the prostate using a sophisticated registration framework. BJU International, 2019, 123, 1020-1030.	1.3	9
29	Understanding the Relationship Between Interactive Optimisation and Visual Analytics in the Context of Prostate Brachytherapy. IEEE Transactions on Visualization and Computer Graphics, 2018, 24, 319-329.	2.9	18
30	Voxel-wise prostate cell density prediction using multiparametric magnetic resonance imaging and machine learning. Acta OncolÃ³gica, 2018, 57, 1540-1546.	0.8	19
31	An integrated system for clinical treatment verification of HDR prostate brachytherapy combining source tracking with pretreatment imaging. Brachytherapy, 2018, 17, 111-121.	0.2	32
32	Association between measures of treatment quality and disease progression in prostate cancer radiotherapy: An exploratory analysis from the <scp>TROG</scp> 03.04 <scp>RADAR</scp> trial. Journal of Medical Imaging and Radiation Oncology, 2018, 62, 248-255.	0.9	6
33	Association between treatment planning and delivery factors and disease progression in prostate cancer radiotherapy: Results from the TROG 03.04 RADAR trial. Radiotherapy and Oncology, 2018, 126, 249-256.	0.3	13
34	Radiobiological parameters in a tumour control probability model for prostate cancer LDR brachytherapy. Physics in Medicine and Biology, 2018, 63, 135011.	1.6	3
35	Predicting prostate tumour location from multiparametric MRI using Gaussian kernel support vector machines: a preliminary study. Australasian Physical and Engineering Sciences in Medicine, 2017, 40, 39-49.	1.4	29
36	3D catheter reconstruction in HDR prostate brachytherapy for pre-treatment verification using a flat panel detector. Physica Medica, 2017, 39, 121-131.	0.4	10

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37	High dose rate brachytherapy source measurement intercomparison. Australasian Physical and Engineering Sciences in Medicine, 2017, 40, 377-383.	1.4	3
38	A generic TGâ€186 shielded applicator for commissioning modelâ€based dose calculation algorithms for highâ€doseâ€rate ¹⁹²Ir brachytherapy. Medical Physics, 2017, 44, 5961-5976.	1.6	34
39	Prostate cancer focal brachytherapy: Improving treatment plan robustness using a convolved dose rate model. Procedia Computer Science, 2017, 108, 1522-1531.	1.2	2
40	Identification of Catheter Displacements in HDR Prostate Brachytherapy Using a â€˜Shift Imageâ€™ Reconstruction Technique. Brachytherapy, 2017, 16, S106.	0.2	0
41	Clinical Application of Pre-Treatment Image Verification of Catheter Positions for HDR Prostate Brachytherapy. Brachytherapy, 2017, 16, S114-S115.	0.2	2
42	A virtual dosimetry audit â€“ Towards transferability of gamma index analysis between clinical trial QA groups. Radiotherapy and Oncology, 2017, 125, 398-404.	0.3	12
43	A pilot study on geometrical uncertainties for intra ocular cancers in radiotherapy. Australasian Physical and Engineering Sciences in Medicine, 2017, 40, 433-439.	1.4	0
44	Automatic 3D modelling for prostate cancer brachytherapy. , 2017, , .		2
45	Focal therapy for prostate cancer: the technical challenges. Journal of Contemporary Brachytherapy, 2017, 4, 383-389.	0.4	10
46	Patient specific quality control for Stereotactic Ablative Body Radiotherapy (SABR): it takes more than one phantom. Journal of Physics: Conference Series, 2017, 777, 012017.	0.3	4
47	Tenâ€year outcomes using low dose rate brachytherapy for localised prostate cancer: An update to the first Australian experience. Journal of Medical Imaging and Radiation Oncology, 2016, 60, 531-538.	0.9	11
48	Which patients benefit from postâ€implant <scp>CT</scp> dosimetry after realâ€time intraoperative planning for <scp>LDR</scp> prostate brachytherapy: Should intraoperatively planned patients be treated differently?. Journal of Medical Imaging and Radiation Oncology, 2016, 60, 244-246.	0.9	1
49	A method for verification of treatment delivery in HDR prostate brachytherapy using a flat panel detector for both imaging and source tracking. Medical Physics, 2016, 43, 2435-2442.	1.6	20
50	On the use of a convolutionâ€“superposition algorithm for plan checking in lung stereotactic body radiation therapy. Journal of Applied Clinical Medical Physics, 2016, 17, 99-110.	0.8	6
51	A radiobiology-based inverse treatment planning method for optimisation of permanent I-125 prostate implants in focal brachytherapy. Physics in Medicine and Biology, 2016, 61, 430-444.	1.6	16
52	Testing the <scp>A</scp>ssessment of <scp>N</scp>ew <scp>R</scp>adiation <scp>O</scp>ncology <scp>T</scp>echnology and <scp>T</scp>reatments framework using the evaluation of postâ€prostatectomy radiotherapy techniques. Journal of Medical Imaging and Radiation Oncology, 2016, 60, 129-137.	0.9	2
53	Brachytherapy: a dying art or missed opportunity?. Australasian Physical and Engineering Sciences in Medicine, 2016, 39, 5-9.	1.4	4
54	The Importance of Quasi-4D Path-Integrated Dose Accumulation for More Accurate Risk Estimation in Stereotactic Liver Radiotherapy. Technology in Cancer Research and Treatment, 2016, 15, 428-436.	0.8	2

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55	<scp>T</scp>rans <scp>T</scp>asman <scp>R</scp>adiation <scp>O</scp>ncology <scp>G</scp>roup: Development of the <scp>A</scp>ssessment of <scp>N</scp>ew <scp>R</scp>adiation <scp>O</scp>ncology <scp>T</scp>echnology and <scp>T</scp>reatments (<scp>ANROTAT</scp>) <scp>F</scp>ramework. Journal of Medical Imaging and Radiation Oncology, 2015, 59, 363-370.	0.9	12
56	Development of a registration framework to validate MRI with histology for prostate focal therapy. Medical Physics, 2015, 42, 7078-7089.	1.6	45
57	A generic high-dose rate¹⁹²Ir brachytherapy source for evaluation of model-based dose calculations beyond the TG-43 formalism. Medical Physics, 2015, 42, 3048-3062.	1.6	64
58	Dose planning objectives in anal canal cancer IMRT : the TROG ANROTAT experience. Journal of Medical Radiation Sciences, 2015, 62, 99-107.	0.8	5
59	Gastrointestinal Dose-Histogram Effects in the Context of Dose-Volumeâ€“Constrained Prostate Radiation Therapy: Analysis of Data From the RADAR Prostate Radiation Therapy Trial. International Journal of Radiation Oncology Biology Physics, 2015, 91, 595-603.	0.4	31
60	Radiation dose escalation or longer androgen suppression for locally advanced prostate cancer? Data from the TROG 03.04 RADAR trial. Radiotherapy and Oncology, 2015, 115, 301-307.	0.3	52
61	Dosimetry, clinical factors and medication intake influencing urinary symptoms after prostate radiotherapy: An analysis of data from the RADAR prostate radiotherapy trial. Radiotherapy and Oncology, 2015, 116, 112-118.	0.3	36
62	Performance assessment of automated tissue characterization for prostate H and E stained histopathology. Proceedings of SPIE, 2015, , .	0.8	3
63	Optimised Robust Treatment Plans for Prostate Cancer Focal Brachytherapy. Procedia Computer Science, 2015, 51, 914-923.	1.2	15
64	Focal Brachytherapy Treatment Planning Using Multi-Parametric MRI and Biological Dose Optimisation. Brachytherapy, 2015, 14, S11-S12.	0.2	0
65	Technical quality assurance during the <scp>TROG</scp> 03.04 <scp>RADAR</scp> prostate radiotherapy trial: Are the results reflected in observed toxicity rates?. Journal of Medical Imaging and Radiation Oncology, 2015, 59, 99-108.	0.9	5
66	Optimizing Radiation Therapy Quality Assurance in Clinical Trials: A TROG 08.03 RAVES Substudy. International Journal of Radiation Oncology Biology Physics, 2015, 93, 1045-1051.	0.4	11
67	Ensemble Prostate Tumor Classification in H&E Whole Slide Imaging via Stain Normalization and Cell Density Estimation. Lecture Notes in Computer Science, 2015, , 280-287.	1.0	4
68	Derivation and representation of dose-volume response from large clinical trial data sets: an example from the RADAR prostate radiotherapy trial. Journal of Physics: Conference Series, 2014, 489, 012090.	0.3	1
69	Two non-parametric methods for derivation of constraints from radiotherapy doseâ€“histogram data. Physics in Medicine and Biology, 2014, 59, N101-N111.	1.6	2
70	An MLE method for finding LKB NTCP model parameters using Monte Carlo uncertainty estimates. Journal of Physics: Conference Series, 2014, 489, 012087.	0.3	1
71	Global Harmonization of Quality Assurance Naming Conventions in Radiation Therapy Clinical Trials. International Journal of Radiation Oncology Biology Physics, 2014, 90, 1242-1249.	0.4	44
72	A <scp>P</scp>hase <scp>III</scp> trial to investigate the timing of radiotherapy for prostate cancer with highâ€risk features: background and rationale of the Radiotherapy â€“ Adjuvant Versus Early Salvage (<scp>RAVES</scp>) trial. BJU International, 2014, 113, 7-12.	1.3	104

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73	Impact of treatment planning and delivery factors on gastrointestinal toxicity: an analysis of data from the RADAR prostate radiotherapy trial. Radiation Oncology, 2014, 9, 282.	1.2	6
74	Prostate Bed Radiation Therapy: The Utility of Ultrasound Volumetric Imaging of the Bladder. Clinical Oncology, 2014, 26, 789-796.	0.6	8
75	A decision model to estimate the cost-effectiveness of intensity modulated radiation therapy (IMRT) compared to three dimensional conformal radiation therapy (3DCRT) in patients receiving radiotherapy to the prostate bed. Radiotherapy and Oncology, 2014, 112, 187-193.	0.3	19
76	Cell density in prostate histopathology images as a measure of tumor distribution. Proceedings of SPIE, 2014, , .	0.8	9
77	ACPSEM brachytherapy working group recommendations for quality assurance in brachytherapy. Australasian Physical and Engineering Sciences in Medicine, 2013, 36, 387-396.	1.4	19
78	Validation of a radiobiological model for low-dose-rate prostate boost focal therapy treatment planning. Brachytherapy, 2013, 12, 628-636.	0.2	30
79	Dosimetry for audit and clinical trials: challenges and requirements. Journal of Physics: Conference Series, 2013, 444, 012014.	0.3	28
80	Quality improvements in prostate radiotherapy: Outcomes and impact of comprehensive quality assurance during the <scp>TROG</scp> 03.04 â€˜<scp>RADAR</scp>â€™ trial. Journal of Medical Imaging and Radiation Oncology, 2013, 57, 247-257.	0.9	36
81	Australasian brachytherapy audit: Results of the â€˜endâ€toâ€endâ€™ dosimetry pilot study. Journal of Medical Imaging and Radiation Oncology, 2013, 57, 490-498.	0.9	13
82	Comparison of TLD calibration methods for dosimetry. Journal of Applied Clinical Medical Physics, 2013, 14, 258-272.	0.8	11
83	Source position verification and dosimetry in HDR brachytherapy using an EPID. Medical Physics, 2013, 40, 111706.	1.6	39
84	Quality Assurance for Clinical Trials. Frontiers in Oncology, 2013, 3, 311.	1.3	28
85	SU-E-T-509: DICOM Test Case Plans for Model-Based Dose Calculations Methods in Brachytherapy. Medical Physics, 2013, 40, 322-322.	1.6	1
86	TU-G-108-06: Anatomical Localization of Late Rectal Toxicity Predictors in Prostate Radiotherapy. Medical Physics, 2013, 40, 454-454.	1.6	0
87	Benchmarking Dosimetric Quality Assessment of Prostate Intensity-Modulated Radiotherapy. International Journal of Radiation Oncology Biology Physics, 2012, 82, 998-1005.	0.4	11
88	Seminal vesicle interfraction displacement and margins in image guided radiotherapy for prostate cancer. Radiation Oncology, 2012, 7, 139.	1.2	35
89	A dosimetric comparison of 3D conformal vs intensity modulated vs volumetric arc radiation therapy for muscle invasive bladder cancer. Radiation Oncology, 2012, 7, 111.	1.2	35
90	Tools to analyse and display variations in anatomical delineation. Australasian Physical and Engineering Sciences in Medicine, 2012, 35, 159-164.	1.4	2

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91	Optimising the dosimetric quality and efficiency of postâ€prostatectomy radiotherapy: A planning study comparing the performance of volumetricâ€modulated arc therapy (VMAT) with an optimised sevenâ€field intensityâ€modulated radiotherapy (IMRT) technique. Journal of Medical Imaging and Radiation Oncology, 2012, 56, 211-219.	0.9	7
92	Online Adaptive Radiotherapy for Muscle-Invasive Bladder Cancer: Results of a Pilot Study. International Journal of Radiation Oncology Biology Physics, 2011, 81, 765-771.	0.4	108
93	Interfraction patient motion and implant displacement in prostate high dose rate brachytherapy. Medical Physics, 2011, 38, 5838-5843.	1.6	3
94	Evaluation of EBT radiochromic film using a multiple exposure technique. Australasian Physical and Engineering Sciences in Medicine, 2011, 34, 281-289.	1.4	5
95	Lack of backscatter factor measurements in HDR applications with MOSkins. Australasian Physical and Engineering Sciences in Medicine, 2011, 34, 545-552.	1.4	5
96	Development and evaluation of a training program for therapeutic radiographers as a basis for online adaptive radiation therapy for bladder carcinoma. Radiography, 2010, 16, 14-20.	1.1	38
97	Intra-fraction prostate displacement in radiotherapy estimated from pre- and post-treatment imaging of patients with implanted fiducial markers. Radiotherapy and Oncology, 2010, 95, 191-197.	0.3	75
98	Comparison of DVH data from multiple radiotherapy treatment planning systems. Physics in Medicine and Biology, 2010, 55, N337-N346.	1.6	60
99	Simple methods to reduce patient dose in a Varian cone beam CT system for delivery verification in pelvic radiotherapy. British Journal of Radiology, 2009, 82, 855-859.	1.0	29
100	Megavoltage versus kilovoltage image guidance for efficiency and accuracy in head and neck IMRT. Journal of Radiotherapy in Practice, 2009, 8, 177-184.	0.2	2
101	Online Kidney Position Verification Using Non-Contrast Radiographs on a Linear Accelerator with on Board KV X-Ray Imaging Capability. Medical Dosimetry, 2009, 34, 293-300.	0.4	0
102	Rectal Filling at Planning Does Not Predict Stability of the Prostate Gland during a Course of Radical Radiotherapy if Patients with Large Rectal Filling are Re-imaged. Clinical Oncology, 2009, 21, 760-767.	0.6	16
103	Offline adaptive radiotherapy for bladder cancer using cone beam computed tomography. Journal of Medical Imaging and Radiation Oncology, 2009, 53, 226-233.	0.9	49
104	Assuring high quality treatment delivery in clinical trials â€“ Results from the Trans-Tasman Radiation Oncology Group (TROG) study 03.04 â€œRADARâ€•set-up accuracy study. Radiotherapy and Oncology, 2009, 90, 299-306.	0.3	35
105	Interâ€observer variability of clinical target volume delineation for bladder cancer using CT and cone beam CT. Journal of Medical Imaging and Radiation Oncology, 2009, 53, 100-106.	0.9	36
106	Verification of target position in the postâ€prostatectomy cancer patient using cone beam CT. Journal of Medical Imaging and Radiation Oncology, 2009, 53, 212-220.	0.9	29
107	Prospective development of an individualised predictive model for treatment coverage using offline cone beam computed tomography surrogate measures in postâ€prostatectomy radiotherapy. Journal of Medical Imaging and Radiation Oncology, 2009, 53, 574-580.	0.9	7
108	Comparison of192Ir air kerma calibration coefficients derived at ARPANSA using the interpolation method and at the National Physical Laboratory using a direct measurement. Australasian Physical and Engineering Sciences in Medicine, 2008, 31, 332-338.	1.4	14

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109	Detailed review and analysis of complex radiotherapy clinical trial planning data: Evaluation and initial experience with the SWAN software system. Radiotherapy and Oncology, 2008, 86, 200-210.	0.3	70
110	Impact of selection of post-implant technique on dosimetry parameters for permanent prostate implants. Brachytherapy, 2005, 4, 146-153.	0.2	11
111	Prospective trial of intraoperative radiation treatment for breast cancer. ANZ Journal of Surgery, 2004, 74, 1043-1048.	0.3	25
112	Multicentre analysis of treatment planning information: Technical requirements, possible applications and a proposal. Journal of Medical Imaging and Radiation Oncology, 2004, 48, 347-352.	0.6	12
113	Iodine-125 brachytherapy for prostate cancer: First published Australian experience. Journal of Medical Imaging and Radiation Oncology, 2004, 48, 181-187.	0.6	2
114	Australian and New Zealand three-dimensional conformal radiation therapy consensus guidelines for prostate cancer. Journal of Medical Imaging and Radiation Oncology, 2004, 48, 493-501.	0.6	24
115	Assessment of i-125 prostate implants by tumor bioeffect. International Journal of Radiation Oncology Biology Physics, 2004, 59, 1405-1413.	0.4	25
116	Prostate implant evaluation using tumour control probabilityâ€"the effect of input parameters. Physics in Medicine and Biology, 2004, 49, 3649-3664.	1.6	18
117	Dosimetry of a low-kV intra-operative X-ray source using basic analytical beam models. Australasian Physical and Engineering Sciences in Medicine, 2002, 25, 119-123.	1.4	12