

Scott B Crowe

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.

110
papers

959
citations

17
h-index

26
g-index

117
ext. papers

1,168
ext. citations

2.4
avg, IF

4.47
L-index

#	Paper	IF	Citations
110	A practical and theoretical definition of very small field size for radiotherapy output factor measurements. <i>Medical Physics</i> , 2014 , 41, 041707	4.4	60
109	Radiological properties of 3D printed materials in kilovoltage and megavoltage photon beams. <i>Physica Medica</i> , 2017 , 38, 111-118	2.7	48
108	Dosimetry of cone-defined stereotactic radiosurgery fields with a commercial synthetic diamond detector. <i>Medical Physics</i> , 2014 , 41, 111702	4.4	48
107	Monte Carlo-based diode design for correction-less small field dosimetry. <i>Physics in Medicine and Biology</i> , 2013 , 58, 4501-12	3.8	43
106	Treatment plan complexity metrics for predicting IMRT pre-treatment quality assurance results. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2014 , 37, 475-82	1.9	42
105	Examination of the properties of IMRT and VMAT beams and evaluation against pre-treatment quality assurance results. <i>Physics in Medicine and Biology</i> , 2015 , 60, 2587-601	3.8	39
104	Technical Note: Relationships between gamma criteria and action levels: Results of a multicenter audit of gamma agreement index results. <i>Medical Physics</i> , 2016 , 43, 1501-6	4.4	34
103	The effect of very small air gaps on small field dosimetry. <i>Physics in Medicine and Biology</i> , 2012 , 57, 6947-50	3.8	33
102	A comparison of surface doses for very small field size x-ray beams: Monte Carlo calculations and radiochromic film measurements. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2014 , 37, 303-9	1.9	32
101	An experimental extrapolation technique using the Gafchromic EBT3 film for relative output factor measurements in small x-ray fields. <i>Medical Physics</i> , 2016 , 43, 4687	4.4	26
100	Modeling a complex micro-multileaf collimator using the standard BEAMnrc distribution. <i>Medical Physics</i> , 2010 , 37, 1761-7	4.4	23
99	A virtual radiation therapy workflow training simulation. <i>Radiography</i> , 2016 , 22, e59-e63	2	22
98	Use of 3D Printed Materials as Tissue-Equivalent Phantoms. <i>IFMBE Proceedings</i> , 2015 , 728-731	0.2	22
97	Technical Note: Preliminary investigations into the use of a functionalised polymer to reduce diffusion in Fricke gel dosimeters. <i>Medical Physics</i> , 2015 , 42, 6798-803	4.4	20
96	Photon optimizer (PO) vs progressive resolution optimizer (PRO): a conformality- and complexity-based comparison for intensity-modulated arc therapy plans. <i>Medical Dosimetry</i> , 2018 , 43, 267-275	1.3	18
95	Monte Carlo verification of gel dosimetry measurements for stereotactic radiotherapy. <i>Physics in Medicine and Biology</i> , 2012 , 57, 3359-69	3.8	17
94	Retrospective evaluation of dosimetric quality for prostate carcinomas treated with 3D conformal, intensity modulated and volumetric modulated arc radiotherapy. <i>Journal of Medical Radiation Sciences</i> , 2013 , 60, 131-8	1.5	17

93	Predicting the likelihood of QA failure using treatment plan accuracy metrics. <i>Journal of Physics: Conference Series</i> , 2014 , 489, 012051	0.3	16
92	Measuring dose from radiotherapy treatments in the vicinity of a cardiac pacemaker. <i>Physica Medica</i> , 2016 , 32, 1529-1536	2.7	15
91	Effects of inaccurate small field dose measurements on calculated treatment doses. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2016 , 39, 747-53	1.9	14
90	Monitoring Daily QA 3 constancy for routine quality assurance on linear accelerators. <i>Physica Medica</i> , 2016 , 32, 1479-1487	2.7	14
89	Design and experimental testing of air slab caps which convert commercial electron diodes into dual purpose, correction-free diodes for small field dosimetry. <i>Medical Physics</i> , 2014 , 41, 101701	4.4	14
88	THE DEVELOPMENT OF A MONTE CARLO SYSTEM TO VERIFY RADIOTHERAPY TREATMENT DOSE CALCULATIONS. <i>Radiotherapy and Oncology</i> , 2009 , 92, S71	5.3	14
87	Xylenol orange functionalised polymers to overcome diffusion in Fricke gel radiation dosimeters. <i>Reactive and Functional Polymers</i> , 2018 , 132, 81-88	4.6	13
86	Accuracy and efficiency of published film dosimetry techniques using a flat-bed scanner and EBT3 film. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2018 , 41, 117-128	1.9	12
85	Utilising the Virtual Environment for Radiotherapy Training System to Support Undergraduate Teaching of IMRT, VMAT, DCAT Treatment Planning, and QA Concepts. <i>Journal of Medical Imaging and Radiation Sciences</i> , 2018 , 49, 31-38	1.4	12
84	Quasi-simultaneous 3D printing of muscle-, lung- and bone-equivalent media: a proof-of-concept study. <i>Physical and Engineering Sciences in Medicine</i> , 2020 , 43, 701-710	7	12
83	Clinical use of diodes and micro-chambers to obtain accurate small field output factor measurements. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2015 , 38, 357-67	1.9	11
82	Dosimetric quality, accuracy, and deliverability of modulated radiotherapy treatments for spinal metastases. <i>Medical Dosimetry</i> , 2016 , 41, 258-66	1.3	10
81	Experimental Evaluation of MCDTK, the Monte Carlo DICOM Tool-Kit. <i>IFMBE Proceedings</i> , 2013 , 1807-1810	10	10
80	Technical Note: Calibrating radiochromic film in beams of uncertain quality. <i>Medical Physics</i> , 2016 , 43, 5647	4.4	10
79	The appearance and effects of metallic implants in CT images. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2013 , 36, 209-17	1.9	9
78	Investigation of stereotactic radiotherapy dose using dosimetry film and Monte Carlo simulations. <i>Radiation Measurements</i> , 2011 , 46, 1985-1988	1.5	9
77	Effects of collimator backscatter in an Elekta linac by Monte Carlo simulation. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2009 , 32, 129-35	1.9	9
76	Wearable glass beads for in vivo dosimetry of total skin electron irradiation treatments. <i>Radiation Physics and Chemistry</i> , 2017 , 140, 314-318	2.5	8

75	Statistical process control and verifying positional accuracy of a cobra motion couch using step-wedge quality assurance tool. <i>Journal of Applied Clinical Medical Physics</i> , 2017 , 18, 70-79	2.3	8
74	Distributive quality assurance and delivery of stereotactic ablative radiotherapy treatments amongst beam matched linear accelerators: A feasibility study. <i>Journal of Applied Clinical Medical Physics</i> , 2019 , 20, 99-105	2.3	8
73	A multi-institutional evaluation of machine performance check system on treatment beam output and symmetry using statistical process control. <i>Journal of Applied Clinical Medical Physics</i> , 2019 , 20, 71-80	2.3	8
72	Establishing the impact of temporary tissue expanders on electron and photon beam dose distributions. <i>Physica Medica</i> , 2015 , 31, 281-5	2.7	8
71	Response variation of optically stimulated luminescence dosimeters. <i>Radiation Measurements</i> , 2014 , 61, 21-24	1.5	8
70	Investigating output and energy variations and their relationship to delivery QA results using Statistical Process Control for helical tomotherapy. <i>Physica Medica</i> , 2017 , 38, 105-110	2.7	8
69	Women in medical physics: a preliminary analysis of workforce and research participation in Australia and New Zealand. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2016 , 39, 525-32	1.9	7
68	A simple method to account for skin dose enhancement during treatment planning of VMAT treatments of patients in contact with immobilization equipment. <i>Journal of Applied Clinical Medical Physics</i> , 2018 , 19, 239-245	2.3	7
67	A reduction of diffusion in PVA Fricke hydrogels. <i>Journal of Physics: Conference Series</i> , 2015 , 573, 012046	6.3	7
66	Dosimetric effects of a high-density spinal implant. <i>Journal of Physics: Conference Series</i> , 2013 , 444, 012103	6.3	7
65	Investigating the use of image thresholding in brachytherapy catheter reconstruction. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2016 , 39, 913-919	1.9	6
64	Analysis of dose comparison techniques for patient-specific quality assurance in radiation therapy. <i>Journal of Applied Clinical Medical Physics</i> , 2019 , 20, 189-198	2.3	6
63	A very low diffusion Fricke gel dosimeter with functionalised xylenol orange-PVA (XOPVA). <i>Physics in Medicine and Biology</i> , 2019 , 64, 205017	3.8	5
62	Assessing the fit of 3D printed bolus from CT, optical scanner and photogrammetry methods. <i>Physical and Engineering Sciences in Medicine</i> , 2020 , 43, 601-607	7	5
61	Conservatism in linear accelerator bunker shielding. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2019 , 42, 781-787	1.9	5
60	Correcting radiation survey data to account for increased leakage during intensity modulated radiotherapy treatments. <i>Medical Physics</i> , 2013 , 40, 111708	4.4	5
59	Internal calibration of gel dosimeters: A feasibility study. <i>Journal of Physics: Conference Series</i> , 2009 , 164, 012014	0.3	5
58	Monte Carlo evaluation of collapsed-cone convolution calculations in head and neck radiotherapy treatment plans. <i>IFMBE Proceedings</i> , 2013 , 1803-1806	0.2	5

57	Application of retrospective data analysis to clinical protocol design: can the potential benefits of breath-hold techniques for breast radiotherapy be assessed without testing on patients?. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2019 , 42, 227-233	1.9	4
56	A review of stereotactic body radiotherapy for the spine. <i>Physical and Engineering Sciences in Medicine</i> , 2020 , 43, 799-824	7	4
55	Tomotherapy treatment site specific planning using statistical process control. <i>Physica Medica</i> , 2018 , 53, 32-39	2.7	4
54	Technical note: A modified gamma evaluation method for dose distribution comparisons. <i>Journal of Applied Clinical Medical Physics</i> , 2019 , 20, 193-200	2.3	4
53	In vivo monitoring of total skin electron dose using optically stimulated luminescence dosimeters. <i>Reports of Practical Oncology and Radiotherapy</i> , 2020 , 25, 35-40	1.5	4
52	Investigating the use of aperture shape controller in VMAT treatment deliveries. <i>Medical Dosimetry</i> , 2020 , 45, 284-292	1.3	4
51	Clinical implementation of a Monte Carlo based independent TPS dose checking system. <i>Physical and Engineering Sciences in Medicine</i> , 2020 , 43, 1113-1123	7	4
50	Monte Carlo calculated output correction factors for Gafchromic EBT3 film for relative dosimetry in small stereotactic radiosurgery fields. <i>Physical and Engineering Sciences in Medicine</i> , 2020 , 43, 609-616	7	4
49	Improving accuracy for stereotactic body radiotherapy treatments of spinal metastases. <i>Journal of Applied Clinical Medical Physics</i> , 2018 , 19, 453-462	2.3	4
48	Linac Leakage Dose Received by Patients Treated Using Non-coplanar Radiotherapy Beams. <i>IFMBE Proceedings</i> , 2019 , 549-551	0.2	3
47	Optically Stimulated Luminescence Dosimeters as an Alternative to Radiographic Film for Performing Head-Wrap Linac Leakage Measurements. <i>IFMBE Proceedings</i> , 2019 , 553-555	0.2	3
46	Effects of gas-filled temporary breast tissue expanders on radiation dose from modulated rotational photon beams. <i>Medical Dosimetry</i> , 2021 , 46, 13-20	1.3	3
45	Technical Note: Dose distributions in the vicinity of high-density implants using 3D gel dosimeters. <i>Medical Physics</i> , 2017 , 44, 1545-1551	4.4	2
44	Commissioning a hobby cutting device for radiochromic film preparation. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2017 , 40, 449-453	1.9	2
43	Retrospective analysis of breast radiotherapy treatment plans: Curating the 'non-curated'. <i>Journal of Medical Imaging and Radiation Oncology</i> , 2019 , 63, 517-529	1.7	2
42	Bulk evaluation and comparison of radiotherapy treatment plans for breast cancer. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2016 , 39, 633-44	1.9	2
41	Characterisation of the half-field beam penumbra for a variety of blocking set-ups. <i>Journal of Physics: Conference Series</i> , 2015 , 573, 012073	0.3	2
40	The influence of Monte Carlo source parameters on detector design and dose perturbation in small field dosimetry. <i>Journal of Physics: Conference Series</i> , 2014 , 489, 012006	0.3	2

39	Using narrow beam profiles to quantify focal spot size, for accurate Monte Carlo simulations of SRS/SRT systems. <i>Journal of Physics: Conference Series</i> , 2014 , 489, 012014	0.3	2
38	Long-Term Reliability of Optically Stimulated Luminescence Dosimeters. <i>IFMBE Proceedings</i> , 2019 , 561-564		2
37	Radiotherapy Quality Assurance Using Statistical Process Control. <i>IFMBE Proceedings</i> , 2019 , 437-442	0.2	2
36	Predicting the required thickness of custom shielding materials in kilovoltage radiotherapy beams. <i>Physica Medica</i> , 2021 , 81, 94-101	2.7	2
35	Anatomical Modelling of the Pregnant Radiotherapy Patient. <i>IFMBE Proceedings</i> , 2015 , 557-560	0.2	1
34	Suitability of Diodes for Point Dose Measurements in IMRT/VMAT Beams. <i>IFMBE Proceedings</i> , 2015 , 657-660		1
33	Characteristics of inverse gamma histograms. <i>Physical and Engineering Sciences in Medicine</i> , 2020 , 43, 659-664	7	1
32	Reduction of artefacts caused by missing ray-sum data in optical-CT imaging of implants in gel dosimeters. <i>Journal of Physics: Conference Series</i> , 2017 , 847, 012070	0.3	1
31	Can a commercial gel dosimetry system be used to verify stereotactic spinal radiotherapy treatment dose distributions?. <i>Journal of Physics: Conference Series</i> , 2017 , 847, 012071	0.3	1
30	Feasibility of 3D printed air slab diode caps for small field dosimetry. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2017 , 40, 631-642	1.9	1
29	PAGAT gel dosimeters for dose distribution measurements in the vicinity of high-density implants: A preliminary study. <i>Journal of Physics: Conference Series</i> , 2015 , 573, 012061	0.3	1
28	Photon beam dose distributions for patients with implanted temporary tissue expanders. <i>Journal of Physics: Conference Series</i> , 2015 , 573, 012062	0.3	1
27	Retrospective Audit of Patient Specific Quality Assurance Results Obtained Using Helical Diode Arrays. <i>IFMBE Proceedings</i> , 2019 , 447-450	0.2	1
26	Optimising a Radiotherapy Optical Surface Monitoring System to Account for the Effects of Patient Skin Contour and Skin Colour. <i>IFMBE Proceedings</i> , 2019 , 451-454	0.2	1
25	Impact of radiopacified bone cement on radiotherapy dose calculation. <i>Physics and Imaging in Radiation Oncology</i> , 2020 , 14, 12-16	3.1	1
24	Exploring the gamma surface: A new method for visualising modulated radiotherapy quality assurance results. <i>Physica Medica</i> , 2020 , 78, 166-172	2.7	1
23	Monte Carlo calculations of radiotherapy dose in "homogeneous" anatomy. <i>Physica Medica</i> , 2020 , 78, 156-165	2.7	1
22	Technical Note: Small field dose correction factors for radiochromic film in lung phantoms. <i>Medical Physics</i> , 2021 , 48, 2667-2672	4.4	1

21	Measuring foetal dose from tomotherapy treatments. <i>Medical Dosimetry</i> , 2021 , 46, 342-346	1.3	1
20	Dosimetric evaluation of a patient-specific 3D-printed oral positioning stent for head-and-neck radiotherapy. <i>Physical and Engineering Sciences in Medicine</i> , 2021 , 44, 887-899	7	1
19	Effect of arc length on skin dose from hypofractionated volumetric modulated arc radiotherapy treatments of the lung and spine. <i>Medical Dosimetry</i> , 2019 , 44, 309-314	1.3	1
18	A method for obtaining three-dimensional measurements of HDR brachytherapy dose distributions using Fricke gel dosimeters and optical computed tomography. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2019 , 42, 221-226	1.9	1
17	Recommendations for simulating and measuring with biofabricated lung equivalent materials based on atomic composition analysis. <i>Physical and Engineering Sciences in Medicine</i> , 2021 , 44, 331-335	7	1
16	Use of electronic portal imaging devices for electron treatment verification. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2016 , 39, 199-209	1.9	0
15	Linear accelerator bunker shielding for stereotactic radiotherapy. <i>Physics in Medicine and Biology</i> , 2019 , 64, 21NT04	3.8	0
14	Report of the ACPSEM radiation oncology medical physics workforce modelling project task group. <i>Physical and Engineering Sciences in Medicine</i> , 2021 , 44, 1013	7	0
13	Comparison of global and local gamma evaluation results using isodose levels. <i>Physical and Engineering Sciences in Medicine</i> , 2021 , 44, 201-206	7	0
12	Determining tolerance levels for quality assurance of 3D printed bolus for modulated arc radiotherapy of the nose. <i>Physical and Engineering Sciences in Medicine</i> , 2021 , 1	7	0
11	Interplay of MLC, gantry and respiratory motion during DCAT delivery. <i>IFMBE Proceedings</i> , 2015 , 428-431b.2		
10	Review of the clinical benefits and implementation of peer review of treatment plans in undergraduate medical dosimetry and radiation therapy training. <i>Journal of Radiotherapy in Practice</i> , 2017 , 16, 85-91	0.4	
9	RSC: A 3D printed eyeball phantom for Sr-90 dosimetry measurements. <i>Journal of Physics: Conference Series</i> , 2022 , 2167, 012018	0.3	
8	Stereotactic Radiosurgery for Multiple Brain Metastases: A Dose-Volume Study. <i>IFMBE Proceedings</i> , 2019 , 443-446	0.2	
7	Calibration Seed Sampling for Iodine-125 Prostate Brachytherapy. <i>IFMBE Proceedings</i> , 2019 , 459-462	0.2	
6	Radiotherapy Dose Measurements Using a Fluorescing Quinine Solution. <i>IFMBE Proceedings</i> , 2019 , 545-548		
5	ASSESSMENT OF INTEGRITY AND LEAD-EQUIVALENCE OF SHIELDED GARMENTS USING TWO-DIMENSIONAL X-RAY IMAGES FROM A COMPUTED TOMOGRAPHY SCANNER. <i>Radiation Protection Dosimetry</i> , 2021 , 193, 155-164	0.9	
4	Departmental action limits for TQA energy variations defined by means of statistical process control methods. <i>Physical and Engineering Sciences in Medicine</i> , 2019 , 43, 29	7	

3	Characterisation of radiological properties of a brachytherapy moulding material. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2018 , 41, 731-737	1.9
2	3D printed brachytherapy jig for Reference Air Kerma Rate calibration. <i>Physical and Engineering Sciences in Medicine</i> , 2021 , 1	7
1	A publicly available dataset of out-of-field dose profiles of a 6 MV linear accelerator.. <i>Physical and Engineering Sciences in Medicine</i> , 2022 , 1	7