

# Peter E Metcalfe

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5659719/publications.pdf>

Version: 2024-02-01

175  
papers

3,447  
citations

126708

33  
h-index

168136

53  
g-index

178  
all docs

178  
docs citations

178  
times ranked

2773  
citing authors

#	ARTICLE	IF	CITATIONS
1	Radiochromic film for medical radiation dosimetry. <i>Materials Science and Engineering Reports</i> , 2003, 41, 61-120.	14.8	264
2	The Potential for an Enhanced Role for MRI in Radiation-Therapy Treatment Planning. <i>Technology in Cancer Research and Treatment</i> , 2013, 12, 429-446.	0.8	162
3	A review of methods of analysis in contouring studies for radiation oncology. <i>Journal of Medical Imaging and Radiation Oncology</i> , 2010, 54, 401-410.	0.9	118
4	Measurement of radiotherapy x-ray skin dose on a chest wall phantom. <i>Medical Physics</i> , 2000, 27, 1676-1680.	1.6	111
5	MRI distortion: considerations for MRI based radiotherapy treatment planning. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2014, 37, 103-113.	1.4	109
6	A new radiotherapy surface dose detector: The MOSFET. <i>Medical Physics</i> , 1996, 23, 655-658.	1.6	105
7	Future of medical physics: Real-time MRI-guided proton therapy. <i>Medical Physics</i> , 2017, 44, e77-e90.	1.6	99
8	X-ray surface dose measurements using TLD extrapolation. <i>Medical Physics</i> , 1993, 20, 703-711.	1.6	79
9	Directional dependence in film dosimetry: radiographic and radiochromic film. <i>Physics in Medicine and Biology</i> , 2001, 46, 1391-1397.	1.6	79
10	Effects on skin dose from unwanted air gaps under bolus in photon beam radiotherapy. <i>Radiation Measurements</i> , 2000, 32, 201-204.	0.7	72
11	Effects of read-out light sources and ambient light on radiochromic film. <i>Physics in Medicine and Biology</i> , 1998, 43, 2407-2412.	1.6	70
12	Monte Carlo characterization of skin doses in 6 MV transverse field MRI- <i>linac</i> systems: Effect of field size, surface orientation, magnetic field strength, and exit bolus. <i>Medical Physics</i> , 2010, 37, 5208-5217.	1.6	66
13	Investigation of the tissue equivalence of gels used for NMR dosimetry. <i>Physics in Medicine and Biology</i> , 1993, 38, 139-150.	1.6	63
14	Characterization of a novel two dimensional diode array the "magic plate" as a radiation detector for radiation therapy treatment. <i>Medical Physics</i> , 2012, 39, 2544-2558.	1.6	63
15	Comparison of Prostate IMRT and VMAT Biologically Optimised Treatment Plans. <i>Medical Dosimetry</i> , 2011, 36, 292-298.	0.4	60
16	High resolution entry and exit Monte Carlo dose calculations from a linear accelerator 6 MV beam under the influence of transverse magnetic fields. <i>Medical Physics</i> , 2009, 36, 3549-3559.	1.6	58
17	The use of the linear quadratic model in radiotherapy: a review. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2001, 24, 132-146.	1.4	56
18	Dosimetry of 6-MV x-ray beam penumbra. <i>Medical Physics</i> , 1993, 20, 1439-1445.	1.6	52

#	ARTICLE	IF	CITATIONS
19	<i>In vivo</i> real-time rectal wall dosimetry for prostate radiotherapy. <i>Physics in Medicine and Biology</i> , 2010, 55, 3859-3871.	1.6	51
20	<i>In vivo</i> verification of superficial dose for head and neck treatments using intensity-modulated techniques. <i>Medical Physics</i> , 2009, 36, 59-70.	1.6	50
21	Monte Carlo study of the potential reduction in out-of-field dose using a patient-specific aperture in pencil beam scanning proton therapy. <i>Physics in Medicine and Biology</i> , 2012, 57, 2829-2842.	1.6	47
22	Continuous table acquisition MRI for radiotherapy treatment planning: Distortion assessment with a new extended 3D volumetric phantom. <i>Medical Physics</i> , 2015, 42, 1982-1991.	1.6	47
23	Multicentre quality assurance of intensity-modulated radiation therapy plans: A precursor to clinical trials. <i>Journal of Medical Imaging and Radiation Oncology</i> , 2007, 51, 472-479.	0.6	46
24	A two dimensional silicon detectors array for quality assurance in stereotactic radiotherapy: MagicPlate <sup>®</sup> 512. <i>Medical Physics</i> , 2014, 41, 091707.	1.6	45
25	Technical Note: Experimental results from a prototype high-field inline MRI linac. <i>Medical Physics</i> , 2016, 43, 5188-5194.	1.6	43
26	Extrapolated surface dose measurements with radiochromic film. <i>Medical Physics</i> , 1999, 26, 485-488.	1.6	41
27	Radiochromic Film Dosimetry and its Applications in Radiotherapy. <i>AIP Conference Proceedings</i> , 2011, , ,	0.3	41
28	Perturbation of radiotherapy beams by radiographic film: measurements and Monte Carlo simulations. <i>Physics in Medicine and Biology</i> , 1999, 44, 1755-1765.	1.6	39
29	Radiochromic film as a radiotherapy surface-dose detector. <i>Physics in Medicine and Biology</i> , 1996, 41, 1073-1078.	1.6	38
30	Effect of hip prostheses on radiotherapy dose. <i>Journal of Medical Imaging and Radiation Oncology</i> , 2000, 44, 290-295.	0.6	37
31	Surface dosimetry for breast radiotherapy in the presence of immobilization cast material. <i>Physics in Medicine and Biology</i> , 2011, 56, 1001-1013.	1.6	37
32	Verification of lung dose in an anthropomorphic phantom calculated by the collapsed cone convolution method. <i>Physics in Medicine and Biology</i> , 2000, 45, N143-N149.	1.6	36
33	Dosimetric verification of helical tomotherapy for total scalp irradiation. <i>Medical Physics</i> , 2008, 35, 5061-5068.	1.6	36
34	High sensitivity radiochromic film dose comparisons. <i>Physics in Medicine and Biology</i> , 2002, 47, N291-N295.	1.6	33
35	Production of Ac-225 for cancer therapy by photon-induced transmutation of Ra-226. <i>Applied Radiation and Isotopes</i> , 2007, 65, 1014-1022.	0.7	33
36	Measurement of off-axis and peripheral skin dose using radiochromic film. <i>Physics in Medicine and Biology</i> , 1998, 43, 2647-2650.	1.6	31

#	ARTICLE	IF	CITATIONS
37	A silicon strip detector dose magnifying glass for IMRT dosimetry. <i>Medical Physics</i> , 2010, 37, 427-439.	1.6	30
38	<i>In vivo</i> real-time dosimetric verification in high dose rate prostate brachytherapy. <i>Medical Physics</i> , 2011, 38, 4785-4794.	1.6	30
39	Correlation of contouring variation with modeled outcome for conformal non-small cell lung cancer radiotherapy. <i>Radiotherapy and Oncology</i> , 2014, 112, 332-336.	0.3	30
40	Multichannel Data Acquisition System comparison for Quality Assurance in external beam radiation therapy. <i>Radiation Measurements</i> , 2014, 71, 338-341.	0.7	29
41	Intensity modulated radiation therapy (IMRT) surface dose measurements using a PTW advanced Markus chamber. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2010, 33, 23-34.	1.4	27
42	Comparison of skin dose between conventional radiotherapy and IMRT. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2006, 29, 272-277.	1.4	26
43	Real-Time In Vivo Dosimetry With MOSFET Detectors in Serial Tomotherapy for Head and Neck Cancer Patients. <i>International Journal of Radiation Oncology Biology Physics</i> , 2011, 80, 1581-1588.	0.4	25
44	The use of a silicon strip detector dose magnifying glass in stereotactic radiotherapy QA and dosimetry. <i>Medical Physics</i> , 2011, 38, 1226-1238.	1.6	24
45	Multicentre dosimetry study of mantle treatment in Australia and New Zealand. <i>Radiotherapy and Oncology</i> , 1996, 40, 171-180.	0.3	21
46	Verification of a rounded leaf-end MLC model used in a radiotherapy treatment planning system. <i>Physics in Medicine and Biology</i> , 2006, 51, N65-N78.	1.6	21
47	MagicPlate-512: A 2D silicon detector array for quality assurance of stereotactic motion adaptive radiotherapy. <i>Medical Physics</i> , 2015, 42, 2992-3004.	1.6	21
48	MRI geometric distortion: Impact on tangential whole-breast IMRT. <i>Journal of Applied Clinical Medical Physics</i> , 2016, 17, 7-19.	0.8	21
49	Investigation of the radiation dose from cone-beam CT for image-guided radiotherapy: A comparison of methodologies. <i>Journal of Applied Clinical Medical Physics</i> , 2018, 19, 174-183.	0.8	21
50	Beam hardening of 10 MV radiotherapy X-rays: analysis using a convolution/superposition method. <i>Physics in Medicine and Biology</i> , 1990, 35, 1533-1549.	1.6	19
51	A comparative analysis of multichannel Data Acquisition Systems for quality assurance in external beam radiation therapy. <i>Journal of Instrumentation</i> , 2014, 9, T06003-T06003.	0.5	19
52	Rectal dose reduction with IMRT for prostate radiotherapy. <i>Journal of Medical Imaging and Radiation Oncology</i> , 2010, 54, 235-248.	0.9	18
53	Australian survey on current practices for breast radiotherapy. <i>Journal of Medical Imaging and Radiation Oncology</i> , 2015, 59, 736-742.	0.9	18
54	Comparison of Magnetic Resonance Imaging and Computed Tomography for Breast Target Volume Delineation in Prone and Supine Positions. <i>International Journal of Radiation Oncology Biology Physics</i> , 2016, 96, 905-912.	0.4	18

#	ARTICLE	IF	CITATIONS
55	Brachytherapy: Proof-of-principle of a novel in-body gamma camera for low dose-rate prostate brachytherapy. <i>Medical Physics</i> , 2013, 40, 041709.	1.6	17
56	Direct and pulsed current annealing of p-MOSFET based dosimeter: the "eMOSkin". <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2014, 37, 311-319.	1.4	17
57	Monte Carlo simulation of the dose response of a novel 2D silicon diode array for use in hybrid MRI-LINAC systems. <i>Medical Physics</i> , 2015, 42, 856-865.	1.6	17
58	The penumbra of a 6-MV x-ray beam as measured by thermoluminescent dosimetry and evaluated using an inverse square root function. <i>Medical Physics</i> , 1993, 20, 1429-1438.	1.6	16
59	Experimental characterization of magnetically focused electron contamination at the surface of a high-field inline MRI-linac. <i>Medical Physics</i> , 2019, 46, 5780-5789.	1.6	16
60	Thermoluminescence dosimetry of therapeutic X-rays with LiF ribbons and rods. <i>Physics in Medicine and Biology</i> , 1993, 38, 833-845.	1.6	13
61	Assessment of large single-fraction, low-energy X-ray dose with radiochromic film. <i>International Journal of Radiation Oncology Biology Physics</i> , 2000, 46, 1071-1075.	0.4	13
62	A comparison of proton therapy and IMRT treatment plans for prostate radiotherapy. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2008, 31, 325-331.	1.4	13
63	Megavoltage cone beam CT near surface dose measurements: potential implications for breast radiotherapy. <i>Medical Physics</i> , 2011, 38, 6222-6227.	1.6	13
64	Experimental verification of dose enhancement effects in a lung phantom from inline magnetic fields. <i>Radiotherapy and Oncology</i> , 2017, 125, 433-438.	0.3	13
65	Dosimetric effects of brass mesh bolus on skin dose and dose at depth for postmastectomy chest wall irradiation. <i>Physica Medica</i> , 2018, 54, 84-93.	0.4	13
66	Magnetic repulsion of linear accelerator contaminates. <i>Medical Physics</i> , 1996, 23, 953-955.	1.6	12
67	Matchline dosimetry in step and shoot IMRT fields: a film study. <i>Physics in Medicine and Biology</i> , 2004, 49, N287-N292.	1.6	12
68	Tissue equivalency of phantom materials for neutron dosimetry in proton therapy. <i>Medical Physics</i> , 2009, 36, 5412-5419.	1.6	12
69	Endorectal balloons in the post prostatectomy setting: Do gains in stability lead to more predictable dosimetry?. <i>Radiotherapy and Oncology</i> , 2013, 109, 493-497.	0.3	12
70	Technical Note: Angular dependence of a 2D monolithic silicon diode array for small field dosimetry. <i>Medical Physics</i> , 2017, 44, 4313-4321.	1.6	12
71	Dose planning variations related to delineation variations in MRI-guided brachytherapy for locally advanced cervical cancer. <i>Brachytherapy</i> , 2020, 19, 146-153.	0.2	12
72	Endo-rectal balloon cavity dosimetry in a phantom: Performance under IMRT and helical tomotherapy beams. <i>Radiotherapy and Oncology</i> , 2009, 92, 48-56.	0.3	11

#	ARTICLE	IF	CITATIONS
73	Radiation dose and contralateral breast cancer risk associated with megavoltage cone-beam computed tomographic image verification in breast radiation therapy. <i>Practical Radiation Oncology</i> , 2013, 3, 93-100.	1.1	11
74	Experimental verification of cesium brachytherapy line source emission using a semiconductor detector. <i>Medical Physics</i> , 1988, 15, 702-706.	1.6	10
75	Three-dimensional dosimetry imaging of I-125 plaque for eye cancer treatment. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 633, S276-S278.	0.7	10
76	Dose calibration of EPIDs for segmented IMRT dosimetry. <i>Journal of Applied Clinical Medical Physics</i> , 2014, 15, 103-118.	0.8	10
77	Temporally separating Cherenkov radiation in a scintillator probe exposed to a pulsed X-ray beam. <i>Physica Medica</i> , 2017, 42, 185-188.	0.4	10
78	Intensity-modulated radiation therapy: Not a dry eye in the house. <i>Journal of Medical Imaging and Radiation Oncology</i> , 2004, 48, 35-44.	0.6	9
79	Multileaf collimator end leaf leakage: implications for wide-field IMRT. <i>Physics in Medicine and Biology</i> , 2007, 52, N493-N504.	1.6	9
80	Normal tissue dose and second cancer risk due to megavoltage fan-beam CT, static tomotherapy and helical tomotherapy in breast radiotherapy. <i>Radiotherapy and Oncology</i> , 2013, 108, 266-268.	0.3	9
81	A phantom assessment of achievable contouring concordance across multiple treatment planning systems. <i>Radiotherapy and Oncology</i> , 2015, 117, 438-441.	0.3	9
82	Practical IMRT QA dosimetry using Gafchromic film: a quick start guide. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2016, 39, 533-545.	1.4	9
83	A comparison of three electron planning algorithms for a 16 MeV electron beam. <i>International Journal of Radiation Oncology Biology Physics</i> , 1994, 28, 731-740.	0.4	8
84	Independent quality assurance of a helical tomotherapy machine using the dose magnifying glass. <i>Medical Physics</i> , 2011, 38, 2256-2264.	1.6	8
85	Beam perturbation characteristics of a 2D transmission silicon diode array, Magic Plate. <i>Journal of Applied Clinical Medical Physics</i> , 2016, 17, 85-98.	0.8	8
86	Clinical significance of treatment delivery errors for helical TomoTherapy nasopharyngeal plans – A dosimetric simulation study. <i>Physica Medica</i> , 2017, 33, 159-169.	0.4	8
87	Technical Note: Penumbra width trimming in solid lung dose profiles for 0.9 and 1.5 T MRI-Linac prototypes. <i>Medical Physics</i> , 2018, 45, 479-487.	1.6	8
88	Superposition on a multicomputer system. <i>Medical Physics</i> , 1991, 18, 468-473.	1.6	7
89	Measurement of skin dose variations produced by a silicon-based protective dressing in radiotherapy. <i>Physics in Medicine and Biology</i> , 2002, 47, N145-N151.	1.6	7
90	Feasibility study of a dual detector configuration concept for simultaneous megavoltage imaging and dose verification in radiotherapy. <i>Medical Physics</i> , 2015, 42, 1753-1764.	1.6	7

#	ARTICLE	IF	CITATIONS
91	Initial experiments with gel-water: towards MRI-linac dosimetry and imaging. Australasian Physical and Engineering Sciences in Medicine, 2016, 39, 921-932.	1.4	7
92	Characterisation of Silicon Diode Arrays for Dosimetry in External Beam Radiation Therapy. IEEE Transactions on Nuclear Science, 2016, 63, 1808-1817.	1.2	7
93	Clinical implementation of an exit detector-based dose reconstruction tool for helical tomotherapy delivery quality assurance. Medical Physics, 2017, 44, 5457-5466.	1.6	7
94	A study into the relationship between the measured penumbra and effective source size in the modeling of the Pinnacle RTPS. Australasian Physical and Engineering Sciences in Medicine, 2011, 34, 233-241.	1.4	6
95	2D mapping of the MV photon fluence and 3D dose reconstruction in real time for quality assurance during radiotherapy treatment. Journal of Instrumentation, 2015, 10, P09019-P09019.	0.5	6
96	Results of the Australasian (Trans-Tasman Oncology Group) radiotherapy benchmarking exercise in preparation for participation in the PORTREC trial. Journal of Medical Imaging and Radiation Oncology, 2016, 60, 554-559.	0.9	6
97	Sensitivity evaluation of two commercial dosimeters in detecting Helical Tomotherapy treatment delivery errors. Physica Medica, 2017, 37, 68-74.	0.4	6
98	Development of a silicon diode detector for skin dosimetry in radiotherapy. Medical Physics, 2017, 44, 5402-5412.	1.6	6
99	A high resolution 2D array detector system for small-field MRI-linac applications. Biomedical Physics and Engineering Express, 2018, 4, 035041.	0.6	6
100	2D monolithic silicon-diode array detectors in megavoltage photon beams: does the fabrication technology matter? A medical physicist's perspective. Australasian Physical and Engineering Sciences in Medicine, 2019, 42, 443-451.	1.4	6
101	Radiobiological indices that consider volume: a review. Australasian Physical and Engineering Sciences in Medicine, 2002, 25, 47-57.	1.4	5
102	Kilovoltage cone-beam CT imaging dose during breast radiotherapy: A dose comparison between a left and right breast setup. Medical Dosimetry, 2014, 39, 190-193.	0.4	5
103	In vivo endorectal dosimetry of prostate tomotherapy using dual MOSkin detectors. Journal of Applied Clinical Medical Physics, 2015, 16, 107-117.	0.8	5
104	Superior target volume and organ stability with the use of endorectal balloons in post-prostatectomy radiotherapy. Journal of Medical Imaging and Radiation Oncology, 2015, 59, 507-513.	0.9	5
105	The impact of imaging modality (CT vs MRI) and patient position (supine vs prone) on tangential whole breast radiation therapy planning. Practical Radiation Oncology, 2018, 8, e87-e97.	1.1	5
106	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
107	Low dose radiation therapy for COVID-19 pneumonia: brief review of the evidence. Physical and Engineering Sciences in Medicine, 2020, 43, 761-763.	1.3	5
108	Decoupling of bowtie and object effects for beam hardening and scatter artefact reduction in iterative cone-beam CT. Physical and Engineering Sciences in Medicine, 2020, 43, 1161-1170.	1.3	5

#	ARTICLE	IF	CITATIONS
109	Consistency of smallâ€field dosimetry, on and off axis, in beamâ€matched linacs used for stereotactic radiosurgery. Journal of Applied Clinical Medical Physics, 2021, 22, 185-193.	0.8	5
110	Determining the longitudinal accuracy and reproducibility of T 1 and T 2 in a 3T MRI scanner. Journal of Applied Clinical Medical Physics, 2021, 22, 143-150.	0.8	5
111	Reducing axial truncation artifacts in iterative coneâ€beam CT for radiation therapy using a priori preconditioned information. Medical Physics, 2021, 48, 7089-7098.	1.6	5
112	Measurements of human tolerance to horizontal rotation within an MRI scanner: Towards gantryâ€free radiation therapy. Journal of Medical Imaging and Radiation Oncology, 2021, 65, 112-119.	0.9	5
113	Characterizing magnetically focused contamination electrons by offâ€axis irradiation on an inline MRIâ€Linac. Journal of Applied Clinical Medical Physics, 2022, , e13591.	0.8	5
114	Radiotherapy Planning Accuracy in Terms of C.T. Numbers and Inhomogeneity Correction Techniques: Presented at the Australasian College of Physical Scientists in Medicine (New Zealand Branch) Conference, November 1986, Hamilton, New Zealand. Journal of Medical Imaging and Radiation Oncology, 1988, 32, 371-379.	0.6	4
115	Accounting for treatment delays when treating highly proliferative tumours. Physics in Medicine and Biology, 1999, 44, 223-234.	1.6	4
116	Intensity modulated radiation therapy: Film verification of planar dose maps. Australasian Physical and Engineering Sciences in Medicine, 2003, 26, 194-199.	1.4	4
117	Comparison of natural and synthetic diamond X-ray detectors. Australasian Physical and Engineering Sciences in Medicine, 2010, 33, 301-306.	1.4	4
118	Atlas-based segmentation technique incorporating inter-observer delineation uncertainty for whole breast. Journal of Physics: Conference Series, 2017, 777, 012002.	0.3	4
119	Feasibility of a dual detector system to perform transit dosimetry and MV imaging in-vivo. Journal of Instrumentation, 2019, 14, P01019-P01019.	0.5	4
120	First application of a highâ€resolution silicon detector for proton beam Bragg peak detection in a 0.95 T magnetic field. Medical Physics, 2020, 47, 181-189.	1.6	4
121	Simulation and measurement of air generated electron contamination in radiotherapy. Radiation Measurements, 2000, 32, 105-111.	0.7	3
122	Evaluation of a radiotherapy electron contamination deflecting system. Radiation Measurements, 2000, 32, 101-104.	0.7	3
123	An Integrated 2-dimensional Dosimeter and Electronic Portal Imaging Device for In Vivo Dosimetry: A Feasibility Study. International Journal of Radiation Oncology Biology Physics, 2012, 84, S764.	0.4	3
124	Review of four novel dosimeters developed for use in radiotherapy. Journal of Physics: Conference Series, 2013, 444, 012008.	0.3	3
125	A comparison of coordinate systems for use in determining a radiotherapy delineation margin for whole breast. Journal of Physics: Conference Series, 2014, 489, 012057.	0.3	3
126	Application of MO <i>Skin</i> detector for <i>in vivo</i> dosimetry on total skin electron therapy (TSET). Biomedical Physics and Engineering Express, 2018, 4, 024002.	0.6	3



#	ARTICLE	IF	CITATIONS
127	eXaSkin: A novel high-density bolus for 6MV X-rays radiotherapy. <i>Physica Medica</i> , 2020, 80, 42-46.	0.4	3
128	Conformance of a 3T Radiotherapy MRI Scanner to the QIBA Diffusion Profile. <i>Medical Physics</i> , 2022, , .	1.6	3
129	Comparison of organ and effective dose estimations from different Monte Carlo simulation-based software methods in infant CT and comparison with direct phantom measurements. <i>Journal of Applied Clinical Medical Physics</i> , 2022, 23, e13625.	0.8	3
130	Educate to dominate. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2007, 30, xiii-xiv.	1.4	2
131	From HEP to medical radiation dosimetry – The silicon strip detector dose magnifying glass. <i>Radiation Measurements</i> , 2011, 46, 1615-1618.	0.7	2
132	Image guidance during breast radiotherapy: a phantom dosimetry and radiation-induced second cancer risk study. <i>Journal of Physics: Conference Series</i> , 2013, 444, 012046.	0.3	2
133	Clinical validation of an in-house EPID dosimetry system for IMRT QA at the Prince of Wales Hospital. <i>Journal of Physics: Conference Series</i> , 2013, 444, 012043.	0.3	2
134	High resolution silicon array detector implementation in an inline MRI-linac. <i>Medical Physics</i> , 2020, 47, 1920-1929.	1.6	2
135	Incident contamination lepton doses measured using radiochromic film in radiotherapy. <i>Radiation Measurements</i> , 1998, 29, 605-609.	0.7	1
136	Standard effective doses for proliferative tumours. <i>Physics in Medicine and Biology</i> , 1999, 44, 2127-2142.	1.6	1
137	Intensity-modulated radiation therapy: overlapping co-axial modulated fields. <i>Physics in Medicine and Biology</i> , 2004, 49, 3629-3637.	1.6	1
138	RE: Multicentre quality assurance of intensity-modulated radiation therapy planning: Beware the benchmarker. <i>Journal of Medical Imaging and Radiation Oncology</i> , 2008, 52, 303-303.	0.9	1
139	A predictive method of calculating the dosimetric effect of 1-D motion on narrow multileaf collimated segments. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2009, 32, 1-10.	1.4	1
140	Surface Dosimetry for Breast Radiotherapy using MOSkins to Measure the Influence of Immobilization Cast Material. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010, 78, S762-S763.	0.4	1
141	EP-1282I: An assessment of MRI distortion for the purpose of radiotherapy treatment planning. <i>Radiotherapy and Oncology</i> , 2013, 106, S484.	0.3	1
142	Introducing dynamic dosimaging: potential applications for MRI-linac. <i>Journal of Physics: Conference Series</i> , 2017, 777, 012007.	0.3	1
143	The angular dependence of a two dimensional monolithic detector array for dosimetry in small radiation fields. <i>Journal of Physics: Conference Series</i> , 2017, 777, 012020.	0.3	1
144	4D Monte Carlo dose calculations for pre-treatment quality assurance of VMAT SBRT: a phantom-based feasibility study. <i>Physics in Medicine and Biology</i> , 2019, 64, 21NT01.	1.6	1

#	ARTICLE	IF	CITATIONS
145	A feasibility study for high-resolution silicon array detector performance in the magnetic field of a permanent magnet system. <i>Medical Physics</i> , 2019, 46, 4224-4232.	1.6	1
146	Dose verification for liver target volumes undergoing respiratory motion. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2019, 42, 619-626.	1.4	1
147	In-line MRI-LINAC depth dose measurements using an in-house plastic scintillation dosimeter. <i>Biomedical Physics and Engineering Express</i> , 2021, 7, 025012.	0.6	1
148	A review of current imaging techniques used for the detection of occult bony fractures in young children suspected of sustaining non-accidental injury. <i>Journal of Medical Imaging and Radiation Oncology</i> , 2022, 66, 68-78.	0.9	1
149	TU-2016: EPID Operation in a Bi-Directional MRI-Linac System: A Monte Carlo Study. <i>Medical Physics</i> , 2012, 39, 3889-3889.	1.6	1
150	SU-C-201-05: Silicon Array Dosimeter in Situ with Electronic Portal Image Device for Simultaneous Transit Dose and Image Verification in Radiotherapy. <i>Medical Physics</i> , 2016, 43, 3316-3316.	1.6	1
151	WE-2015: Inline Magnetic Fields Enhance Tumor Dose for Small Lung Cancers. <i>Medical Physics</i> , 2015, 42, 3689-3689.	1.6	1
152	Addendum to the penumbra of a 6-MV x-ray beam as measured by thermoluminescent dosimetry and evaluated using an inverse square root function [Med. Phys. 20, 1429-1438 (1993)]. <i>Medical Physics</i> , 1994, 21, 1261-1261.	1.6	0
153	Radiotherapy dose compensation for lung patients. <i>Journal of Medical Imaging and Radiation Oncology</i> , 1999, 43, 210-214.	0.6	0
154	Effects of water light absorption properties of a radiographic film. <i>Physics in Medicine and Biology</i> , 2002, 47, N279-N284.	1.6	0
155	Verification of CT number to density conversion for a simulator-CT attachment. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2002, 25, 78-80.	1.4	0
156	IMRT: is it Nirvana?. <i>Progress in Palliative Care</i> , 2004, 12, 16-23.	0.7	0
157	Evaluation of dose from kV cone-beam computed tomography during radiotherapy: a comparison of methodologies. <i>Journal of Physics: Conference Series</i> , 2017, 777, 012003.	0.3	0
158	Linearization of EBT3 film dose response and virtual film dosimetry for SBRT quality assurance. <i>Journal of Physics: Conference Series</i> , 2017, 777, 012005.	0.3	0
159	Modelling the x-ray source for the Australian MRI-Linac. <i>Journal of Physics: Conference Series</i> , 2019, 1154, 012025.	0.3	0
160	Dose build up characteristics with eXaSkin bolus during 6MV radiotherapy: MO <i>i&gt;</i> Skin</i> dosimetry results. <i>Journal of Physics: Conference Series</i> , 2019, 1154, 012024.	0.3	0
161	Characterization of a high spatiotemporal resolution monolithic silicon strip detector for MRI-linac dosimetry. <i>Journal of Physics: Conference Series</i> , 2019, 1154, 012006.	0.3	0
162	Should ACPSEM develop its own position papers or just adopt those of the AAPM?. <i>Physical and Engineering Sciences in Medicine</i> , 2020, 43, 749-753.	1.3	0

#	ARTICLE	IF	CITATIONS
163	Imaging and radiation isocentre determination for inline MR-guided radiotherapy systems – proof of principle using MR-phantom with embedded monolithic silicon detector. Journal of Physics: Conference Series, 2020, 1662, 012008.	0.3	0
164	SU-FF-T-308: Monte Carlo Simulation for Evaluating the Matchline Effect of IMRT Technique. Medical Physics, 2007, 34, 2472-2472.	1.6	0
165	TU-C-204B-04: Monte Carlo Characterization of Skin Doses in MRI-Guided-Radiotherapy. Medical Physics, 2010, 37, 3385-3385.	1.6	0
166	SU-E-T-682: Skin Dose Changes in Transverse Field MRIGRT: The ERE or the LFP?. Medical Physics, 2011, 38, 3647-3647.	1.6	0
167	SU-E-T-679: Electron Contamination Modeling in Longitudinal Field MRI-Linac Systems. Medical Physics, 2011, 38, 3646-3646.	1.6	0
168	SU-E-T-226: Image Acquisition and Processing Characteristics of a Siemens EPID: Potential Problems for EPID Dosimetry. Medical Physics, 2011, 38, 3538-3538.	1.6	0
169	SU-E-T-20: Removal of Electron Contamination in Longitudinal Field MRI-Linac Systems: A Monte Carlo Study. Medical Physics, 2012, 39, 3706-3706.	1.6	0
170	MO-F-213AB-03: Potential Reduction in Out-Of-Field Dose in Pencil Beam Scanning Proton Therapy Through Use of a Patient-Specific Aperture. Medical Physics, 2012, 39, 3872-3872.	1.6	0
171	TH-C-141-04: Endorectal Balloons in Post-Prostatectomy: Do Gains in Stability Lead to More Predictable Dosimetry?. Medical Physics, 2012, 39, 4000-4000.	1.6	0
172	SU-E-J-213: An Evaluation of the Reproducibility of Radiotherapy Contouring Utilizing Multiple Institutions and Treatment Planning Systems. Medical Physics, 2013, 40, 200-200.	1.6	0
173	TH-C-141-09: A Comparison of MRI Distortion Between Scanners and Sequences for Radiotherapy Purposes. Medical Physics, 2013, 40, 541-541.	1.6	0
174	WE-AB-BRB-04: A Novel Monolithic Silicon 2D Detector Array for Use in Stereotactic Applications. Medical Physics, 2015, 42, 3650-3650.	1.6	0
175	A portable magnet for radiation biology and dosimetry studies in magnetic fields. Medical Physics, 2022, 49, 1924-1931.	1.6	0