

# Geoff Budgell

## List of Publications by Year in descending order

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29  
papers

773  
citations

567281

15  
h-index

501196

28  
g-index

29  
all docs

29  
docs citations

29  
times ranked

550  
citing authors

#	ARTICLE	IF	CITATIONS
1	Verification of dynamic multileaf collimation using an electronic portal imaging device. <i>Physics in Medicine and Biology</i> , 2000, 45, 495-509.	3.0	67
2	Requirements for leaf position accuracy for dynamic multileaf collimation. <i>Physics in Medicine and Biology</i> , 2000, 45, 1211-1227.	3.0	62
3	Quality assurance of the dose delivered by small radiation segments. <i>Physics in Medicine and Biology</i> , 1998, 43, 2665-2675.	3.0	59
4	A national dosimetric audit of IMRT. <i>Radiotherapy and Oncology</i> , 2011, 99, 246-252.	0.6	58
5	Use of an amorphous silicon electronic portal imaging device for multileaf collimator quality control and calibration. <i>Physics in Medicine and Biology</i> , 2005, 50, 1377-1392.	3.0	52
6	Quantitative analysis of patient-specific dosimetric IMRT verification. <i>Physics in Medicine and Biology</i> , 2005, 50, 103-119.	3.0	49
7	IPEM topical report 1: guidance on implementing flattening filter free (FFF) radiotherapy. <i>Physics in Medicine and Biology</i> , 2016, 61, 8360-8394.	3.0	45
8	Daily monitoring of linear accelerator beam parameters using an amorphous silicon EPID. <i>Physics in Medicine and Biology</i> , 2007, 52, 1721-1733.	3.0	44
9	Leaf position verification during dynamic beam delivery: A comparison of three applications using electronic portal imaging. <i>Medical Physics</i> , 2000, 27, 1601-1609.	3.0	38
10	Improving IMRT quality control efficiency using an amorphous silicon electronic portal imager. <i>Medical Physics</i> , 2005, 32, 3267-3278.	3.0	36
11	Use of an amorphous silicon EPID for measuring MLC calibration at varying gantry angle. <i>Physics in Medicine and Biology</i> , 2008, 53, 473-485.	3.0	35
12	Quantification of static magnetic field effects on radiotherapy ionization chambers. <i>Physics in Medicine and Biology</i> , 2017, 62, 1731-1743.	3.0	33
13	The Future of Image-guided Radiotherapy. <i>Clinical Oncology</i> , 2017, 29, 662-666.	1.4	33
14	Therapeutic Radiographers at the Helm: Moving Towards Radiographer-Led MR-Guided Radiotherapy. <i>Journal of Medical Imaging and Radiation Sciences</i> , 2020, 51, 364-372.	0.3	28
15	Rectangular edge synchronization for intensity modulated radiation therapy with dynamic multileaf collimation. <i>Physics in Medicine and Biology</i> , 1998, 43, 2769-2784.	3.0	17
16	Temporal resolution requirements for intensity modulated radiation therapy delivered by multileaf collimators. <i>Physics in Medicine and Biology</i> , 1999, 44, 1581-1596.	3.0	14
17	Improved delivery efficiency for step and shoot intensity modulated radiotherapy using a fast-tuning magnetron. <i>Physics in Medicine and Biology</i> , 2001, 46, N253-N261.	3.0	14
18	Electron beam quality control using an amorphous silicon EPID. <i>Medical Physics</i> , 2009, 36, 1859-1866.	3.0	14

#	ARTICLE	IF	CITATIONS
19	Clinical implementation of dynamic multileaf collimation for compensated bladder treatments. Radiotherapy and Oncology, 2001, 59, 31-38.	0.6	13
20	Prediction of Scattered Dose to the Testes in Abdominopelvic Radiotherapy. Clinical Oncology, 2001, 13, 120-125.	1.4	13
21	Analysis of the measurement precision of an amorphous silicon EPID used for MLC leaf position quality control and the long-term calibration stability of an optically controlled MLC. Physics in Medicine and Biology, 2008, 53, N297-N306.	3.0	11
22	Quantitative evaluation of 4D Cone beam CT scans with reduced scan time in lung cancer patients. Radiotherapy and Oncology, 2019, 136, 64-70.	0.6	10
23	Customised compensation using intensity modulated beams delivered by dynamic multileaf collimation. Radiotherapy and Oncology, 1999, 53, 59-65.	0.6	9
24	Intensity modulated radiotherapy (IMRT) – an introduction. Radiography, 2002, 8, 241-249.	2.1	8
25	A separated primary and scatter model for independent dose calculation of intensity modulated radiotherapy. Radiotherapy and Oncology, 2006, 80, 385-390.	0.6	7
26	Intensity-modulated Radiotherapy Planning from Limited Anatomical Information: Is Sim-CT Sufficient for Planning Women with Breast Cancer Receiving Intensity-modulated Radiotherapy?. Clinical Oncology, 2005, 17, 343-351.	1.4	2
27	Comment on “On the insensitivity of single field planar dosimetry to IMRT inaccuracies”. Medical Physics, 2010, 37, 6497-6498.	3.0	1
28	Absolute Calibration of the Elekta Unity MR Linac Using the UK Code of Practice for High-Energy Photon Dosimetry. IFMBE Proceedings, 2019, , 455-458.	0.3	1
29	SU-CC-293: Development of National Radiotherapy Audit in the UK. Medical Physics, 2010, 37, 3253-3253. 3.0	3.0	0