

Catharine H Clark

List of Publications by Year in descending order

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Version: 2024-02-01

88
papers

5,097
citations

159585

30
h-index

88630

70
g-index

88
all docs

88
docs citations

88
times ranked

5371
citing authors

#	ARTICLE	IF	CITATIONS
1	Parotid-sparing intensity modulated versus conventional radiotherapy in head and neck cancer (PARSPORT): a phase 3 multicentre randomised controlled trial. <i>Lancet Oncology</i> , The, 2011, 12, 127-136.	10.7	1,407
2	Radiotherapy plus cisplatin or cetuximab in low-risk human papillomavirus-positive oropharyngeal cancer (De-ESCALaTE HPV): an open-label randomised controlled phase 3 trial. <i>Lancet</i> , The, 2019, 393, 51-60.	13.7	697
3	Volumetric modulated arc therapy: a review of current literature and clinical use in practice. <i>British Journal of Radiology</i> , 2011, 84, 967-996.	2.2	503
4	Conventional versus hypofractionated high-dose intensity-modulated radiotherapy for prostate cancer: preliminary safety results from the CHHiP randomised controlled trial. <i>Lancet Oncology</i> , The, 2012, 13, 43-54.	10.7	303
5	A comparison of the gamma index analysis in various commercial IMRT/VMAT QA systems. <i>Radiotherapy and Oncology</i> , 2013, 109, 370-376.	0.6	130
6	Challenges in calculation of the gamma index in radiotherapy – Towards good practice. <i>Physica Medica</i> , 2017, 36, 1-11.	0.7	121
7	The impact of introducing intensity modulated radiotherapy into routine clinical practice. <i>Radiotherapy and Oncology</i> , 2005, 77, 241-246.	0.6	103
8	Evaluation of Gafchromic EBT-XD film, with comparison to EBT3 film, and application in high dose radiotherapy verification. <i>Physics in Medicine and Biology</i> , 2015, 60, 8741-8752.	3.0	81
9	Tissue mimicking materials for imaging and therapy phantoms: a review. <i>Physics in Medicine and Biology</i> , 2020, 65, .	3.0	74
10	Dosimetric explanations of fatigue in head and neck radiotherapy: An analysis from the PARSPORT Phase III trial. <i>Radiotherapy and Oncology</i> , 2012, 104, 205-212.	0.6	73
11	Intensity-modulated radiotherapy improves target coverage, spinal cord sparing and allows dose escalation in patients with locally advanced cancer of the larynx. <i>Radiotherapy and Oncology</i> , 2004, 70, 189-198.	0.6	55
12	Radiation therapy quality assurance in clinical trials – Global harmonisation group. <i>Radiotherapy and Oncology</i> , 2014, 111, 327-329.	0.6	55
13	A phase I study of dose-escalated chemoradiation with accelerated intensity modulated radiotherapy in locally advanced head and neck cancer. <i>Radiotherapy and Oncology</i> , 2007, 85, 36-41.	0.6	53
14	Organ at risk delineation for radiation therapy clinical trials: Global Harmonization Group consensus guidelines. <i>Radiotherapy and Oncology</i> , 2020, 150, 30-39.	0.6	53
15	Dosimetry audit for a multi-centre IMRT head and neck trial. <i>Radiotherapy and Oncology</i> , 2009, 93, 102-108.	0.6	52
16	Intensity Modulated Radiotherapy (IMRT) in locally advanced thyroid cancer: Acute toxicity results of a phase I study. <i>Radiotherapy and Oncology</i> , 2007, 85, 58-63.	0.6	50
17	Radiotherapy dosimetry audit: three decades of improving standards and accuracy in UK clinical practice and trials. <i>British Journal of Radiology</i> , 2015, 88, 20150251.	2.2	50
18	A multi-institutional dosimetry audit of rotational intensity-modulated radiotherapy. <i>Radiotherapy and Oncology</i> , 2014, 113, 272-278.	0.6	49

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19	Low-cost commercial glass beads as dosimeters in radiotherapy. <i>Radiation Physics and Chemistry</i> , 2014, 97, 95-101.	2.8	48
20	A critical evaluation of the PTW 2D $\hat{\text{ARRAY}}$ seven ²⁹ and OCTAVIUS II phantom for IMRT and VMAT verification. <i>Journal of Applied Clinical Medical Physics</i> , 2013, 14, 274-292.	1.9	47
21	Global Harmonization of Quality Assurance Naming Conventions in Radiation Therapy Clinical Trials. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014, 90, 1242-1249.	0.8	44
22	Pre-trial quality assurance processes for an intensity-modulated radiation therapy (IMRT) trial: PARSPORT, a UK multicentre Phase III trial comparing conventional radiotherapy and parotid-sparing IMRT for locally advanced head and neck cancer. <i>British Journal of Radiology</i> , 2009, 82, 585-594.	2.2	43
23	Dose-Escalated Intensity-Modulated Radiotherapy Is Feasible and May Improve Locoregional Control and Laryngeal Preservation in Laryngo-Hypopharyngeal Cancers. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012, 82, 539-547.	0.8	40
24	Intensity-modulated Radiotherapy Allows Escalation of the Radiation Dose to the Pelvic Lymph Nodes in Patients with Locally Advanced Prostate Cancer: Preliminary Results of a Phase I Dose Escalation Study. <i>Clinical Oncology</i> , 2010, 22, 236-244.	1.4	38
25	A methodology for dosimetry audit of rotational radiotherapy using a commercial detector array. <i>Radiotherapy and Oncology</i> , 2013, 108, 78-85.	0.6	34
26	The role of complexity metrics in a multi-institutional dosimetry audit of VMAT. <i>British Journal of Radiology</i> , 2016, 89, 20150445.	2.2	34
27	Dose to Bone Marrow Using IMRT Techniques in Prostate Cancer Patients. <i>Strahlentherapie Und Onkologie</i> , 2005, 181, 172-178.	2.0	33
28	Grand challenges for medical physics in radiation oncology. <i>Radiotherapy and Oncology</i> , 2020, 153, 7-14.	0.6	33
29	Target Volume Definition for Head and Neck Intensity Modulated Radiotherapy: Pre-clinical Evaluation of PARSPORT Trial Guidelines. <i>Clinical Oncology</i> , 2007, 19, 604-613.	1.4	32
30	The role of dosimetry audit in lung SBRT multi-centre clinical trials. <i>Physica Medica</i> , 2017, 44, 171-176.	0.7	32
31	A national dosimetry audit for stereotactic ablative radiotherapy in lung. <i>Radiotherapy and Oncology</i> , 2017, 122, 406-410.	0.6	31
32	A phase II trial of induction chemotherapy and chemo-IMRT for head and neck squamous cell cancers at risk of bilateral nodal spread: the application of a bilateral superficial lobe parotid-sparing IMRT technique and treatment outcomes. <i>British Journal of Cancer</i> , 2015, 112, 32-38.	6.4	29
33	IMRT clinical implementation: Prostate and pelvic node irradiation using Helios and a 120-leaf multileaf collimator. <i>Journal of Applied Clinical Medical Physics</i> , 2002, 3, 273.	1.9	29
34	IMRT clinical implementation: Prostate and pelvic node irradiation using Helios and a 120-leaf multileaf collimator. <i>Journal of Applied Clinical Medical Physics</i> , 2002, 3, 273-284.	1.9	27
35	Implementation of IMRT in the radiotherapy department. <i>British Journal of Radiology</i> , 2003, 76, 850-856.	2.2	24
36	Intensity Modulated Radiotherapy Improves Target Coverage and Parotid Gland Sparing When Delivering Total Mucosal Irradiation in Patients With Squamous Cell Carcinoma of Head and Neck of Unknown Primary Site. <i>Medical Dosimetry</i> , 2007, 32, 188-195.	0.9	24

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37	Dose-response analysis of parotid gland function: What is the best measure of xerostomia?. <i>Radiotherapy and Oncology</i> , 2013, 106, 341-345.	0.6	24
38	Verification of patient position and delivery of IMRT by electronic portal imaging. <i>Radiotherapy and Oncology</i> , 2004, 73, 339-347.	0.6	23
39	Adaptation and validation of a commercial head phantom for cranial radiosurgery dosimetry end-to-end audit. <i>British Journal of Radiology</i> , 2017, 90, 20170053.	2.2	23
40	Current status of cranial stereotactic radiosurgery in the UK. <i>British Journal of Radiology</i> , 2016, 89, 20150452.	2.2	22
41	The use of electronic portal imaging to verify patient position during intensity-modulated radiotherapy delivered by the dynamic MLC technique. <i>International Journal of Radiation Oncology Biology Physics</i> , 2002, 54, 1225-1234.	0.8	21
42	Final long-term results of a phase I/II study of dose-escalated intensity-modulated radiotherapy for locally advanced laryngo-hypopharyngeal cancers. <i>Oral Oncology</i> , 2014, 50, 1089-1097.	1.5	21
43	The role of dosimetry audit in achieving high quality radiotherapy. <i>Physics and Imaging in Radiation Oncology</i> , 2018, 5, 85-87.	2.9	21
44	Report dose-to-medium in clinical trials where available; a consensus from the Global Harmonisation Group to maximize consistency. <i>Radiotherapy and Oncology</i> , 2021, 159, 106-111.	0.6	21
45	Glass beads and Ge-doped optical fibres as thermoluminescence dosimeters for small field photon dosimetry. <i>Physics in Medicine and Biology</i> , 2014, 59, 6875-6889.	3.0	19
46	The use of log file analysis within VMAT audits. <i>British Journal of Radiology</i> , 2016, 89, 20150489.	2.2	19
47	Characterisation of a plastic scintillation detector to be used in a multicentre stereotactic radiosurgery dosimetry audit. <i>Radiation Physics and Chemistry</i> , 2017, 140, 373-378.	2.8	19
48	Remote beam output audits: A global assessment of results out of tolerance. <i>Physics and Imaging in Radiation Oncology</i> , 2018, 7, 39-44.	2.9	19
49	Energy response of glass bead TLDs irradiated with radiation therapy beams. <i>Radiation Physics and Chemistry</i> , 2014, 104, 208-211.	2.8	18
50	Novel methodologies for dosimetry audits: Adapting to advanced radiotherapy techniques. <i>Physics and Imaging in Radiation Oncology</i> , 2018, 5, 76-84.	2.9	18
51	Changes in Patterns of Intensity-modulated Radiotherapy Verification and Quality Assurance in the UK. <i>Clinical Oncology</i> , 2016, 28, e28-e34.	1.4	17
52	Volumetric modulated arc therapy (VMAT): a review of clinical outcomes-what is the clinical evidence for the most effective implementation?. <i>British Journal of Radiology</i> , 2022, 95, .	2.2	17
53	Radiotherapy reference dose audit in the United Kingdom by the National Physical Laboratory: 20 years of consistency and improvements. <i>Physics and Imaging in Radiation Oncology</i> , 2017, 3, 21-27.	2.9	16
54	Comparing Proton to Photon Radiotherapy Plans: UK Consensus Guidance for Reporting Under Uncertainty for Clinical Trials. <i>Clinical Oncology</i> , 2020, 32, 459-466.	1.4	16

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55	Expanding the scientific role of medical physics in radiotherapy: Time to act. <i>Radiotherapy and Oncology</i> , 2015, 117, 401-402.	0.6	15
56	Development of a novel treatment planning test for credentialing rotational intensity-modulated radiotherapy techniques in the UK. <i>British Journal of Radiology</i> , 2013, 86, 20120315.	2.2	12
57	A virtual dosimetry audit – Towards transferability of gamma index analysis between clinical trial QA groups. <i>Radiotherapy and Oncology</i> , 2017, 125, 398-404.	0.6	12
58	Radiotherapy Quality Assurance for the CHHiP Trial: Conventional Versus Hypofractionated High-Dose Intensity-Modulated Radiotherapy in Prostate Cancer. <i>Clinical Oncology</i> , 2019, 31, 611-620.	1.4	12
59	A multi-centre analysis of radiotherapy beam output measurement. <i>Physics and Imaging in Radiation Oncology</i> , 2017, 4, 39-43.	2.9	11
60	An end-to-end assessment on the accuracy of adaptive radiotherapy in an MR-linac. <i>Physics in Medicine and Biology</i> , 2021, 66, 055021.	3.0	11
61	The 3rd ESTRO-EFOMP core curriculum for medical physics experts in radiotherapy. <i>Radiotherapy and Oncology</i> , 2022, 170, 89-94.	0.6	11
62	Feasibility of using glass-bead thermoluminescent dosimeters for radiotherapy treatment plan verification. <i>British Journal of Radiology</i> , 2015, 88, 20140804.	2.2	10
63	Multi-institutional dosimetric delivery assessment of intracranial stereotactic radiosurgery on different treatment platforms. <i>Radiotherapy and Oncology</i> , 2020, 147, 153-161.	0.6	10
64	Inter-departmental dosimetry audits – development of methods and lessons learned. <i>Journal of Medical Physics</i> , 2015, 40, 183.	0.3	10
65	IAEA methodology for on-site end-to-end IMRT/VMAT audits: an international pilot study. <i>Acta Oncologica</i> , 2020, 59, 141-148.	1.8	9
66	Multivariate log file analysis for multi-leaf collimator failure prediction in radiotherapy delivery. <i>Physics and Imaging in Radiation Oncology</i> , 2020, 15, 72-76.	2.9	8
67	Towards an updated ESTRO-EFOMP core curriculum for education and training of medical physics experts in radiotherapy – A survey of current education and training practice in Europe. <i>Physica Medica</i> , 2021, 84, 65-71.	0.7	8
68	Volumetric-modulated arc therapy (RapidArc) vs. conventional fixed-field intensity-modulated radiotherapy for 18F-FDG-PET-guided dose escalation in oropharyngeal cancer: A planning study. <i>Medical Dosimetry</i> , 2013, 38, 18-24.	0.9	7
69	National audit of a system for rectal contact brachytherapy. <i>Physics and Imaging in Radiation Oncology</i> , 2017, 1, 1-5.	2.9	7
70	Automatic evaluation of contours in radiotherapy planning utilising conformity indices and machine learning. <i>Physics and Imaging in Radiation Oncology</i> , 2020, 16, 149-155.	2.9	7
71	Clinical use, challenges, and barriers to implementation of deformable image registration in radiotherapy – the need for guidance and QA tools. <i>British Journal of Radiology</i> , 2021, 94, 20210001.	2.2	7
72	Adapting training for medical physicists to match future trends in radiation oncology. <i>Physics and Imaging in Radiation Oncology</i> , 2019, 11, 71-75.	2.9	6

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73	SEAFARER " A new concept for validating radiotherapy patient specific QA for clinical trials and clinical practice. Radiotherapy and Oncology, 2022, 171, 121-128.	0.6	6
74	A quantitative study of IMRT delivery effects in commercial planning systems for the case of oesophagus and prostate tumours. British Journal of Radiology, 2006, 79, 401-408.	2.2	5
75	Feasibility study of silica bead thermoluminescence detectors (TLDs) in an external radiotherapy dosimetry audit programme. Radiation Physics and Chemistry, 2017, 141, 251-256.	2.8	5
76	Thermoluminescence measurements of eye-lens dose in a multi-centre stereotactic radiosurgery audit. Radiation Physics and Chemistry, 2019, 155, 75-81.	2.8	5
77	Professional practice changes in radiotherapy physics during the COVID-19 pandemic. Physics and Imaging in Radiation Oncology, 2021, 19, 25-32.	2.9	5
78	Preliminary investigations of two types of silica-based dosimeter for small-field radiotherapy. Radiation Physics and Chemistry, 2014, 104, 139-144.	2.8	3
79	Development of a heterogeneous phantom to measure range in clinical proton therapy beams. Physica Medica, 2022, 93, 59-68.	0.7	3
80	Impact of Intrafraction Motion on TCP and Rectal NTCP Values in Patients Receiving IG-IMRT for Prostate Cancer. International Journal of Radiation Oncology Biology Physics, 2010, 78, S363-S364.	0.8	2
81	Quantification of the uncertainties within the radiotherapy dosimetry chain and their impact on tumour control. Physics and Imaging in Radiation Oncology, 2021, 19, 33-38.	2.9	2
82	Quality assurance of dysphagia-optimised intensity modulated radiotherapy treatment planning for head and neck cancer. Physics and Imaging in Radiation Oncology, 2021, 20, 46-50.	2.9	2
83	In regard to Lee et al., IJROBP 2002;53:630"637. International Journal of Radiation Oncology Biology Physics, 2003, 55, 1150.	0.8	1
84	Intensity Modulated Radiotherapy in Cancer of the Larynx. , 2006, , 335-344.		0
85	EP-1935: Impact of standardised codes of practice and related audit on radiotherapy dosimetry over 20 years. Radiotherapy and Oncology, 2016, 119, S918.	0.6	0
86	1st European Congress of Medical Physics September 1"4, 2016; Medical Physics innovation and vision within Europe and beyond. Physica Medica, 2017, 41, 1-4.	0.7	0
87	OC-0611: Modelling the clinical impact of machine specific dose variations on outcome using national data. Radiotherapy and Oncology, 2018, 127, S322.	0.6	0
88	In reply to the letter to the editor: "In reply to Fiorino et al: The central role of the radiation oncologist in the multidisciplinary and multiprofessional model of modern radiation therapy". Radiotherapy and Oncology, 2021, 155, e22-e23.	0.6	0