

# David H Thomas

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

633  
citations

623734

14  
h-index

580821

25  
g-index

38  
all docs

38  
docs citations

38  
times ranked

787  
citing authors

#	ARTICLE	IF	CITATIONS
1	Longitudinal diffusion MRI for treatment response assessment: Preliminary experience using an MRI-guided cobalt 60 radiotherapy system. <i>Medical Physics</i> , 2016, 43, 1369-1373.	3.0	95
2	Online Adaptive Radiation Therapy: Implementation of a New Process of Care. <i>Cureus</i> , 2017, 9, e1618.	0.5	77
3	A Novel Fast Helical 4D-CT Acquisition Technique to Generate Low-Noise Sorting Artifact-Free Images at User-Selected Breathing Phases. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014, 89, 191-198.	0.8	53
4	Initial clinical observations of intra- and interfractional motion variation in MR-guided lung SBRT. <i>British Journal of Radiology</i> , 2018, 91, 20170522.	2.2	44
5	Feasibility evaluation of diffusion-weighted imaging using an integrated MRI-radiotherapy system for response assessment to neoadjuvant therapy in rectal cancer. <i>British Journal of Radiology</i> , 2017, 90, 20160739.	2.2	43
6	A generalized framework unifying image registration and respiratory motion models and incorporating image reconstruction, for partial image data or full images. <i>Physics in Medicine and Biology</i> , 2017, 62, 4273-4292.	3.0	43
7	A novel CT acquisition and analysis technique for breathing motion modeling. <i>Physics in Medicine and Biology</i> , 2013, 58, L31-L36.	3.0	41
8	Dosimetric validation of a magnetic resonance image gated radiotherapy system using a motion phantom and radiochromic film. <i>Journal of Applied Clinical Medical Physics</i> , 2017, 18, 163-169.	1.9	35
9	Microbubble oscillations in capillary tubes. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2013, 60, 105-114.	3.0	25
10	5D respiratory motion model based image reconstruction algorithm for 4D cone-beam computed tomography. <i>Inverse Problems</i> , 2015, 31, 115007.	2.0	20
11	Simulation of X-ray induced acoustic imaging for absolute dosimetry: Accuracy of image reconstruction methods. <i>Medical Physics</i> , 2020, 47, 1280-1290.	3.0	18
12	A Comparison of Amplitude-Based and Phase-Based Positron Emission Tomography Gating Algorithms for Segmentation of Internal Target Volumes of Tumors Subject to Respiratory Motion. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013, 87, 562-569.	0.8	16
13	A Method for Assessing Ground-Truth Accuracy of the 5DCT Technique. <i>International Journal of Radiation Oncology Biology Physics</i> , 2015, 93, 925-933.	0.8	16
14	Computerized triplet beam orientation optimization for MRI-guided Co-60 radiotherapy. <i>Medical Physics</i> , 2016, 43, 5667-5675.	3.0	14
15	Comparison of breathing gated CT images generated using a 5DCT technique and a commercial clinical protocol in a porcine model. <i>Medical Physics</i> , 2015, 42, 4033-4042.	3.0	12
16	Technical Note: Simulation of 4DCT tumor motion measurement errors. <i>Medical Physics</i> , 2015, 42, 6084-6089.	3.0	11
17	The acoustic response from individual attached and unattached rigid shelled microbubbles. <i>Applied Physics Letters</i> , 2008, 93, 223906.	3.3	8
18	On the acoustic response of microbubbles in arteriole sized vessels. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	7

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19	Modeling and incorporating cardiac-induced lung tissue motion in a breathing motion model. Medical Physics, 2014, 41, 043501.	3.0	7
20	Model-Interpolated Gating for Magnetic Resonance Image-Guided Radiation Therapy. International Journal of Radiation Oncology Biology Physics, 2018, 102, 885-894.	0.8	7
21	Objective function to obtain multiple representative waveforms for a novel helical CT scan protocol. Medical Physics, 2015, 42, 1164-1169.	3.0	5
22	Characterizing spatial differences between SPECT-ventilation and SPECT-perfusion in patients with lung cancer undergoing radiotherapy. Radiotherapy and Oncology, 2021, 160, 120-124.	0.6	5
23	Fast simulated annealing and adaptive Monte Carlo sampling based parameter optimization for dense optical-flow deformable image registration of 4DCT lung anatomy. Proceedings of SPIE, 2016, , .	0.8	4
24	Integration of automation into an existing clinical workflow to improve efficiency and reduce errors in the manual treatment planning process for total body irradiation (TBI). Journal of Applied Clinical Medical Physics, 2020, 21, 100-106.	1.9	4
25	Optical observations of microbubble oscillation in small tubes. , 2009, , .		3
26	Automatic dissociation between microvasculature and larger vessels for ultrasound contrast imaging. , 2014, 2014, 5076-9.		3
27	Technical Note: Analysis of motion blurring artifact in fast helical free-breathing thoracic CT scans. Medical Physics, 2017, 44, 1456-1461.	3.0	3
28	Investigating the minimum scan parameters required to generate free-breathing motion artefact-free fast-helical CT. British Journal of Radiology, 2018, 91, 20170597.	2.2	3
29	Comparison of lung tumor motion measured using a model-based 4DCT technique and a commercial protocol. Practical Radiation Oncology, 2018, 8, e175-e183.	2.1	3
30	Safety-oriented design of in-house software for new techniques: A case study using a model-based 4 DCT protocol. Medical Physics, 2019, 46, 1523-1532.	3.0	3
31	The Current State of Physics Plan Review Training in Medical Physics Residency Programs in North America. Practical Radiation Oncology, 2020, 10, e166-e172.	2.1	3
32	Survival of single microbubbles insonated in solution and in narrow tubes. , 2009, , .		1
33	Dependence of subject-specific parameters for a fast helical CT respiratory motion model on breathing rate: an animal study. Physics in Medicine and Biology, 2018, 63, 04NT04.	3.0	1
34	The effect of resonance on transient microbubble response; response; experimental and theoretical observations. , 2012, , .		0
35	A setup for the assessment of the effect of tubular confinement on the acoustic response of microbubbles. , 2014, 2014, 242-5.		0
36	The polydisperse acoustic signature of rigid microbubbles. , 2015, 2015, 133-6.		0

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37	Technical Note: Dosimetric effects of couch position variability on treatment plan quality with an MRI-guided Co-60 radiation therapy machine. <i>Medical Physics</i> , 2016, 43, 4514-4519.	3.0	0
38	Technical Note: Deep Learning approach for automatic detection and identification of patient positioning devices for radiation therapy. <i>Medical Physics</i> , 2020, 47, 5061-5069.	3.0	0