

# David H Thomas

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9508059/publications.pdf>

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  | Characterizing spatial differences between SPECT-ventilation and SPECT-perfusion in patients with lung cancer undergoing radiotherapy. <i>Radiotherapy and Oncology</i> , 2021, 160, 120-124.   | 0.6 | 5         |
| 2  | 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        |
| 3  | The Current State of Physics Plan Review Training in Medical Physics Residency Programs in North America. <i>Practical Radiation Oncology</i> , 2020, 10, e166-e172.  | 2.1 | 3         |
| 4  | 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). <i>Journal of Applied Clinical Medical Physics</i> , 2020, 21, 100-106. | 1.9 | 4         |
| 5  | 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         |
| 6  | Safety-oriented design of in-house software for new techniques: A case study using a model-based 4 DCT protocol. <i>Medical Physics</i> , 2019, 46, 1523-1532.  | 3.0 | 3         |
| 7  | Investigating the minimum scan parameters required to generate free-breathing motion artefact-free fast-helical CT. <i>British Journal of Radiology</i> , 2018, 91, 20170597.   | 2.2 | 3         |
| 8  | Dependence of subject-specific parameters for a fast helical CT respiratory motion model on breathing rate: an animal study. <i>Physics in Medicine and Biology</i> , 2018, 63, 04NT04.   | 3.0 | 1         |
| 9  | Comparison of lung tumor motion measured using a model-based 4DCT technique and a commercial protocol. <i>Practical Radiation Oncology</i> , 2018, 8, e175-e183.  | 2.1 | 3         |
| 10 | 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        |
| 11 | Model-Interpolated Gating for Magnetic Resonance Image-Guided Radiation Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018, 102, 885-894.   | 0.8 | 7         |
| 12 | 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        |
| 13 | Technical Note: Analysis of motion blurring artifact in fast helical free-breathing thoracic CT scans. <i>Medical Physics</i> , 2017, 44, 1456-1461.  | 3.0 | 3         |
| 14 | 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        |
| 15 | 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        |
| 16 | Online Adaptive Radiation Therapy: Implementation of a New Process of Care. <i>Cureus</i> , 2017, 9, e1618.   | 0.5 | 77        |
| 17 | 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        |
| 18 | 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         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Computerized triplet beam orientation optimization for MRI-guided Co <sup>60</sup> radiotherapy. Medical Physics, 2016, 43, 5667-5675.  | 3.0 | 14        |
| 20 | 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         |
| 21 | Technical Note: Simulation of 4DCT tumor motion measurement errors. Medical Physics, 2015, 42, 6084-6089.   | 3.0 | 11        |
| 22 | Comparison of breathing gated CT images generated using a 5DCT technique and a commercial clinical protocol in a porcine model. Medical Physics, 2015, 42, 4033-4042.   | 3.0 | 12        |
| 23 | Objective function to obtain multiple representative waveforms for a novel helical CT scan protocol. Medical Physics, 2015, 42, 1164-1169.  | 3.0 | 5         |
| 24 | 5D respiratory motion model based image reconstruction algorithm for 4D cone-beam computed tomography. Inverse Problems, 2015, 31, 115007.  | 2.0 | 20        |
| 25 | The polydisperse acoustic signature of rigid microbubbles. , 2015, 2015, 133-6.   |     | 0         |
| 26 | A Method for Assessing Ground-Truth Accuracy of the 5DCT Technique. International Journal of Radiation Oncology Biology Physics, 2015, 93, 925-933.   | 0.8 | 16        |
| 27 | Automatic dissociation between microvasculature and larger vessels for ultrasound contrast imaging. , 2014, 2014, 5076-9.   |     | 3         |
| 28 | A setup for the assessment of the effect of tubular confinement on the acoustic response of microbubbles. , 2014, 2014, 242-5.  |     | 0         |
| 29 | Modeling and incorporating cardiac-induced lung tissue motion in a breathing motion model. Medical Physics, 2014, 41, 043501.   | 3.0 | 7         |
| 30 | A Novel Fast Helical 4D-CT Acquisition Technique to Generate Low-Noise Sorting Artifact-Free Images at User-Selected Breathing Phases. International Journal of Radiation Oncology Biology Physics, 2014, 89, 191-198.  | 0.8 | 53        |
| 31 | 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. International Journal of Radiation Oncology Biology Physics, 2013, 87, 562-569. | 0.8 | 16        |
| 32 | Microbubble oscillations in capillary tubes. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 105-114.  | 3.0 | 25        |
| 33 | A novel CT acquisition and analysis technique for breathing motion modeling. Physics in Medicine and Biology, 2013, 58, L31-L36.  | 3.0 | 41        |
| 34 | The effect of resonance on transient microbubble response; response; experimental and theoretical observations. , 2012, , .   |     | 0         |
| 35 | On the acoustic response of microbubbles in arteriole sized vessels. Applied Physics Letters, 2011, 99, .   | 3.3 | 7         |
| 36 | Optical observations of microbubble oscillation in small tubes. , 2009, , .   |     | 3         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | Survival of single microbubbles insonated in solution and in narrow tubes. , 2009, , .   |     | 1         |
| 38 | The acoustic response from individual attached and unattached rigid shelled microbubbles. Applied Physics Letters, 2008, 93, 223906. | 3.3 | 8         |