

# Andrew M Hernandez

## List of Publications by Year in descending order

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Version: 2024-02-01

28  
papers

527  
citations

758635

12  
h-index

676716

22  
g-index

28  
all docs

28  
docs citations

28  
times ranked

467  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tungsten anode spectral model using interpolating cubic splines: Unfiltered x-ray spectra from 20 kV to 640 kV. <i>Medical Physics</i> , 2014, 41, 042101.	1.6	139
2	Breast dose in mammography is about 30% lower when realistic heterogeneous glandular distributions are considered. <i>Medical Physics</i> , 2015, 42, 6337-6348.	1.6	63
3	Generation and analysis of clinically relevant breast imaging x-ray spectra. <i>Medical Physics</i> , 2017, 44, 2148-2160.	1.6	51
4	Longitudinal Evaluation of Left Ventricular Substrate Metabolism, Perfusion, and Dysfunction in the Spontaneously Hypertensive Rat Model of Hypertrophy Using Small-Animal PET/CT Imaging. <i>Journal of Nuclear Medicine</i> , 2013, 54, 1938-1945.	2.8	30
5	Dataset of patient-derived digital breast phantoms for <i>in silico</i> studies in breast computed tomography, digital breast tomosynthesis, and digital mammography. <i>Medical Physics</i> , 2021, 48, 2682-2693.	1.6	26
6	Location and direction dependence in the 3D MTF for a high-resolution CT system. <i>Medical Physics</i> , 2021, 48, 2760-2771.	1.6	19
7	Average glandular dose coefficients for pendant geometry breast CT using realistic breast phantoms. <i>Medical Physics</i> , 2017, 44, 5096-5105.	1.6	18
8	Updated breast CT dose coefficients ( $D_{gNCT}$ ) using patient-derived breast shapes and heterogeneous fibroglandular distributions. <i>Medical Physics</i> , 2019, 46, 1455-1466.	1.6	15
9	Shading artifact correction in breast CT using an interleaved deep learning segmentation and maximum-likelihood polynomial fitting approach. <i>Medical Physics</i> , 2019, 46, 3414-3430.	1.6	15
10	Conspicuity of suspicious breast lesions on contrast enhanced breast CT compared to digital breast tomosynthesis and mammography. <i>British Journal of Radiology</i> , 2019, 92, 20181034.	1.0	15
11	Validation of synthesized normal-resolution image data generated from high-resolution acquisitions on a commercial CT scanner. <i>Medical Physics</i> , 2020, 47, 4775-4785.	1.6	14
12	Effects of kV, filtration, dose, and object size on soft tissue and iodine contrast in dedicated breast CT. <i>Medical Physics</i> , 2020, 47, 2869-2880.	1.6	14
13	CT Phantom Evaluation of 67,392 American College of Radiology Accreditation Examinations: Implications for Opportunistic Screening of Osteoporosis Using CT. <i>American Journal of Roentgenology</i> , 2021, 216, 447-452.	1.0	13
14	The Effect of Iodine-based Contrast Material on Radiation Dose at CT: It's Complicated. <i>Radiology</i> , 2017, 283, 624-627.	3.6	12
15	Multi-marker quantitative radiomics for mass characterization in dedicated breast CT imaging. <i>Medical Physics</i> , 2021, 48, 313-328.	1.6	12
16	Estimating a size-specific dose for helical head CT examinations using Monte Carlo simulation methods. <i>Medical Physics</i> , 2019, 46, 902-912.	1.6	10
17	Cone beam CT multisource configurations: evaluating image quality, scatter, and dose using phantom imaging and Monte Carlo simulations. <i>Physics in Medicine and Biology</i> , 2020, 65, 235032.	1.6	9
18	Two-dimensional breast dosimetry improved using three-dimensional breast image data. <i>Radiological Physics and Technology</i> , 2017, 10, 129-141.	1.0	8

#	ARTICLE	IF	CITATIONS
19	The Napoli-Varna-Davis project for virtual clinical trials in X-ray breast imaging. , 2019, , .		8
20	Comparisons of glandular breast dose between digital mammography, tomosynthesis and breast CT based on anthropomorphic patient-derived breast phantoms. Physica Medica, 2022, 97, 50-58.	0.4	8
21	Longitudinal Evaluation of Myocardial Fatty Acid and Glucose Metabolism in Fasted and Nonfasted Spontaneously Hypertensive Rats Using MicroPET/CT. Molecular Imaging, 2017, 16, 153601211772455.	0.7	6
22	Computer-aided diagnosis of masses in breast computed tomography imaging: deep learning model with combined handcrafted and convolutional radiomic features. Journal of Medical Imaging, 2021, 8, 024501.	0.8	5
23	High-resolution $\hat{1}/4$ CT imaging for characterizing microcalcification detection performance in breast CT. Journal of Medical Imaging, 2021, 8, 052107.	0.8	5
24	Monte Carlo Basics for Radiation Dose Assessment in Diagnostic Radiology. Journal of the American College of Radiology, 2017, 14, 793-794.	0.9	4
25	Quantification of airway dimensions using a highâ€resolution CT scanner: A phantom study. Medical Physics, 2021, 48, 5874-5883.	1.6	4
26	A prototype Multi-X-ray-source array (MXA) for digital breast tomosynthesis. Physics in Medicine and Biology, 2020, 65, 235033.	1.6	3
27	Phantom-based standardization of CT angiography images for spot sign detection. Neuroradiology, 2017, 59, 839-844.	1.1	1
28	High resolution microcalcification signal profiles for dedicated breast CT. , 2020, 11312, .		0