

Ehsan Samei

List of Publications by Citations

Source: <https://exaly.com/author-pdf/1173523/ehsan-samei-publications-by-citations.pdf>

Version: 2024-04-17

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

539
papers

9,837
citations

50
h-index

83
g-index

666
ext. papers

11,603
ext. citations

5.2
avg, IF

6.46
L-index

#	Paper	IF	Citations
539	A method for measuring the presampled MTF of digital radiographic systems using an edge test device. <i>Medical Physics</i> , 1998 , 25, 102-13	4.4	454
538	Low-tube-voltage, high-tube-current multidetector abdominal CT: improved image quality and decreased radiation dose with adaptive statistical iterative reconstruction algorithm--initial clinical experience. <i>Radiology</i> , 2010 , 254, 145-53	20.5	429
537	Assessment of display performance for medical imaging systems: executive summary of AAPM TG18 report. <i>Medical Physics</i> , 2005 , 32, 1205-25	4.4	221
536	Towards task-based assessment of CT performance: system and object MTF across different reconstruction algorithms. <i>Medical Physics</i> , 2012 , 39, 4115-22	4.4	220
535	Achieving routine submillisievert CT scanning: report from the summit on management of radiation dose in CT. <i>Radiology</i> , 2012 , 264, 567-80	20.5	205
534	Hypervascular liver tumors: low tube voltage, high tube current multidetector CT during late hepatic arterial phase for detection--initial clinical experience. <i>Radiology</i> , 2009 , 251, 771-9	20.5	200
533	Detection of subtle lung nodules: relative influence of quantum and anatomic noise on chest radiographs. <i>Radiology</i> , 1999 , 213, 727-34	20.5	195
532	An experimental comparison of detector performance for direct and indirect digital radiography systems. <i>Medical Physics</i> , 2003 , 30, 608-22	4.4	194
531	Hypervascular liver tumors: low tube voltage, high tube current multi-detector row CT for enhanced detection--phantom study. <i>Radiology</i> , 2008 , 246, 125-32	20.5	157
530	Recent advances in chest radiography. <i>Radiology</i> , 2006 , 241, 663-83	20.5	143
529	Intercomparison of methods for image quality characterization. II. Noise power spectrum. <i>Medical Physics</i> , 2006 , 33, 1466-75	4.4	125
528	Detection of pancreatic tumors, image quality, and radiation dose during the pancreatic parenchymal phase: effect of a low-tube-voltage, high-tube-current CT technique--preliminary results. <i>Radiology</i> , 2010 , 256, 450-9	20.5	121
527	Patient-specific radiation dose and cancer risk estimation in CT: part II. Application to patients. <i>Medical Physics</i> , 2011 , 38, 408-19	4.4	116
526	Diagnostic Performance of an Advanced Modeled Iterative Reconstruction Algorithm for Low-Contrast Detectability with a Third-Generation Dual-Source Multidetector CT Scanner: Potential for Radiation Dose Reduction in a Multireader Study. <i>Radiology</i> , 2015 , 275, 735-45	20.5	115
525	Assessment of the dose reduction potential of a model-based iterative reconstruction algorithm using a task-based performance metrology. <i>Medical Physics</i> , 2015 , 42, 314-23	4.4	109
524	Population of anatomically variable 4D XCAT adult phantoms for imaging research and optimization. <i>Medical Physics</i> , 2013 , 40, 043701	4.4	104
523	A framework for optimising the radiographic technique in digital X-ray imaging. <i>Radiation Protection Dosimetry</i> , 2005 , 114, 220-9	0.9	102

522	Intercomparison of methods for image quality characterization. I. Modulation transfer function. <i>Medical Physics</i> , 2006 , 33, 1454-65	4.4	98
521	Patient-specific radiation dose and cancer risk for pediatric chest CT. <i>Radiology</i> , 2011 , 259, 862-74	20.5	94
520	An experimental comparison of detector performance for computed radiography systems. <i>Medical Physics</i> , 2002 , 29, 447-59	4.4	91
519	Reproducibility of CT Radiomic Features within the Same Patient: Influence of Radiation Dose and CT Reconstruction Settings. <i>Radiology</i> , 2019 , 293, 583-591	20.5	90
518	Quantitative comparison of noise texture across CT scanners from different manufacturers. <i>Medical Physics</i> , 2012 , 39, 6048-55	4.4	90
517	Patient-specific radiation dose and cancer risk estimation in CT: part I. development and validation of a Monte Carlo program. <i>Medical Physics</i> , 2011 , 38, 397-407	4.4	89
516	Experimental comparison of noise and resolution for 2k and 4k storage phosphor radiography systems. <i>Medical Physics</i> , 1999 , 26, 1612-23	4.4	89
515	An exposure indicator for digital radiography: AAPM Task Group 116 (executive summary). <i>Medical Physics</i> , 2009 , 36, 2898-914	4.4	84
514	Generalized "satisfaction of search": adverse influences on dual-target search accuracy. <i>Journal of Experimental Psychology: Applied</i> , 2010 , 16, 60-71	1.8	83
513	Quantitative Features of Liver Lesions, Lung Nodules, and Renal Stones at Multi-Detector Row CT Examinations: Dependency on Radiation Dose and Reconstruction Algorithm. <i>Radiology</i> , 2016 , 279, 185-94	20.5	78
512	Impact of dual-energy multi-detector row CT with virtual monochromatic imaging on renal cyst pseudoenhancement: in vitro and in vivo study. <i>Radiology</i> , 2014 , 272, 767-76	20.5	76
511	A methodology for image quality evaluation of advanced CT systems. <i>Medical Physics</i> , 2013 , 40, 031908	4.4	75
510	Quantum noise properties of CT images with anatomical textured backgrounds across reconstruction algorithms: FBP and SAFIRE. <i>Medical Physics</i> , 2014 , 41, 091908	4.4	69
509	Characteristic image quality of a third generation dual-source MDCT scanner: Noise, resolution, and detectability. <i>Medical Physics</i> , 2015 , 42, 4941-53	4.4	68
508	A method for modifying the image quality parameters of digital radiographic images. <i>Medical Physics</i> , 2003 , 30, 3006-17	4.4	68
507	Performance evaluation of computed tomography systems: Summary of AAPM Task Group 233. <i>Medical Physics</i> , 2019 , 46, e735-e756	4.4	66
506	Assessment of volumetric noise and resolution performance for linear and nonlinear CT reconstruction methods. <i>Medical Physics</i> , 2014 , 41, 071909	4.4	65
505	Subtle lung nodules: influence of local anatomic variations on detection. <i>Radiology</i> , 2003 , 228, 76-84	20.5	64

504	Effect of Radiation Dose Reduction and Reconstruction Algorithm on Image Noise, Contrast, Resolution, and Detectability of Subtle Hypoattenuating Liver Lesions at Multidetector CT: Filtered Back Projection versus a Commercial Model-based Iterative Reconstruction Algorithm. <i>Radiology</i> , 2017 , 284, 777-787	20.5	60
503	Optimization of exposure parameters in full field digital mammography. <i>Medical Physics</i> , 2008 , 35, 2414-23	4.4	60
502	Development of realistic physical breast phantoms matched to virtual breast phantoms based on human subject data. <i>Medical Physics</i> , 2015 , 42, 4116-26	4.4	59
501	Automated Technique to Measure Noise in Clinical CT Examinations. <i>American Journal of Roentgenology</i> , 2015 , 205, W93-9	5.4	58
500	Monte Carlo reference data sets for imaging research: Executive summary of the report of AAPM Research Committee Task Group 195. <i>Medical Physics</i> , 2015 , 42, 5679-91	4.4	58
499	An Improved Index of Image Quality for Task-based Performance of CT Iterative Reconstruction across Three Commercial Implementations. <i>Radiology</i> , 2015 , 275, 725-34	20.5	58
498	Automated size-specific CT dose monitoring program: assessing variability in CT dose. <i>Medical Physics</i> , 2012 , 39, 7131-9	4.4	58
497	Image quality in two phosphor-based flat panel digital radiographic detectors. <i>Medical Physics</i> , 2003 , 30, 1747-57	4.4	58
496	Optimized image acquisition for breast tomosynthesis in projection and reconstruction space. <i>Medical Physics</i> , 2009 , 36, 4859-69	4.4	56
495	Dose dependence of mass and microcalcification detection in digital mammography: free response human observer studies. <i>Medical Physics</i> , 2007 , 34, 400-7	4.4	56
494	Chest radiography: optimization of X-ray spectrum for cesium iodide-amorphous silicon flat-panel detector. <i>Radiology</i> , 2003 , 226, 221-30	20.5	55
493	Pencil beam coded aperture x-ray scatter imaging. <i>Optics Express</i> , 2012 , 20, 16310	3.3	54
492	Simulation of mammographic lesions. <i>Academic Radiology</i> , 2006 , 13, 860-70	4.3	54
491	Simulation of subtle lung nodules in projection chest radiography. <i>Radiology</i> , 1997 , 202, 117-24	20.5	51
490	Does image quality matter? Impact of resolution and noise on mammographic task performance. <i>Medical Physics</i> , 2007 , 34, 3971-81	4.4	50
489	AAPM/RSNA tutorial on equipment selection: PACS equipment overview: general guidelines for purchasing and acceptance testing of PACS equipment. <i>Radiographics</i> , 2004 , 24, 313-34	5.4	50
488	Simulation study of a quasi-monochromatic beam for x-ray computed mamotomography. <i>Medical Physics</i> , 2004 , 31, 800-13	4.4	50
487	Performance evaluation of computed radiography systems. <i>Medical Physics</i> , 2001 , 28, 361-71	4.4	50

486	Kilovoltage cone-beam CT: comparative dose and image quality evaluations in partial and full-angle scan protocols. <i>Medical Physics</i> , 2010 , 37, 3648-59	4.4	49
485	Fundamental imaging characteristics of a slot-scan digital chest radiographic system. <i>Medical Physics</i> , 2004 , 31, 2687-98	4.4	49
484	Determination of the detective quantum efficiency of a digital x-ray detector: comparison of three evaluations using a common image data set. <i>Medical Physics</i> , 2004 , 31, 2205-11	4.4	49
483	How does c-view image quality compare with conventional 2D FFDM?. <i>Medical Physics</i> , 2016 , 43, 2538	4.4	48
482	Radiation dose reduction in abdominal computed tomography during the late hepatic arterial phase using a model-based iterative reconstruction algorithm: how low can we go?. <i>Investigative Radiology</i> , 2012 , 47, 468-74	10.1	47
481	Detector or system? Extending the concept of detective quantum efficiency to characterize the performance of digital radiographic imaging systems. <i>Radiology</i> , 2008 , 249, 926-37	20.5	47
480	Pediatric chest and abdominopelvic CT: organ dose estimation based on 42 patient models. <i>Radiology</i> , 2014 , 270, 535-47	20.5	46
479	An anthropomorphic breast model for breast imaging simulation and optimization. <i>Academic Radiology</i> , 2011 , 18, 536-46	4.3	46
478	A generic framework to simulate realistic lung, liver and renal pathologies in CT imaging. <i>Physics in Medicine and Biology</i> , 2014 , 59, 6637-57	3.8	45
477	Volumetric quantification of lung nodules in CT with iterative reconstruction (ASiR and MBIR). <i>Medical Physics</i> , 2013 , 40, 111902	4.4	45
476	Organ doses, effective doses, and risk indices in adult CT: comparison of four types of reference phantoms across different examination protocols. <i>Medical Physics</i> , 2012 , 39, 3404-23	4.4	45
475	Evaluating iterative reconstruction performance in computed tomography. <i>Medical Physics</i> , 2014 , 41, 121913	4.4	44
474	Patient-based estimation of organ dose for a population of 58 adult patients across 13 protocol categories. <i>Medical Physics</i> , 2014 , 41, 072104	4.4	44
473	Effective DQE (eDQE) and speed of digital radiographic systems: an experimental methodology. <i>Medical Physics</i> , 2009 , 36, 3806-17	4.4	44
472	The Effect of Contrast Material on Radiation Dose at CT: Part II. A Systematic Evaluation across 58 Patient Models. <i>Radiology</i> , 2017 , 283, 749-757	20.5	43
471	Dual-energy MDCT in hypervascular liver tumors: effect of body size on selection of the optimal monochromatic energy level. <i>American Journal of Roentgenology</i> , 2014 , 203, 1257-64	5.4	43
470	Effects of protocol and obesity on dose conversion factors in adult body CT. <i>Medical Physics</i> , 2012 , 39, 6550-71	4.4	42
469	Introduction to grayscale calibration and related aspects of medical imaging grade liquid crystal displays. <i>Journal of Digital Imaging</i> , 2008 , 21, 193-207	5.3	42

468	Physical characterization of a prototype selenium-based full field digital mammography detector. <i>Medical Physics</i> , 2005 , 32, 588-99	4.4	42
467	A Third-Generation Adaptive Statistical Iterative Reconstruction Technique: Phantom Study of Image Noise, Spatial Resolution, Lesion Detectability, and Dose Reduction Potential. <i>American Journal of Roentgenology</i> , 2018 , 210, 1301-1308	5.4	41
466	Comparison of low-contrast detectability between two CT reconstruction algorithms using voxel-based 3D printed textured phantoms. <i>Medical Physics</i> , 2016 , 43, 6497	4.4	41
465	Digital mammography: effects of reduced radiation dose on diagnostic performance. <i>Radiology</i> , 2007 , 243, 396-404	20.5	40
464	Patient-specific quantification of image quality: An automated method for measuring spatial resolution in clinical CT images. <i>Medical Physics</i> , 2016 , 43, 5330	4.4	39
463	Detection of Colorectal Hepatic Metastases Is Superior at Standard Radiation Dose CT versus Reduced Dose CT. <i>Radiology</i> , 2019 , 290, 400-409	20.5	38
462	Quantitative imaging in breast tomosynthesis and CT: comparison of detection and estimation task performance. <i>Medical Physics</i> , 2010 , 37, 2627-37	4.4	37
461	AAPM/RSNA physics tutorial for residents: technological and psychophysical considerations for digital mammographic displays. <i>Radiographics</i> , 2005 , 25, 491-501	5.4	37
460	Effect of a Noise-Optimized Second-Generation Monoenergetic Algorithm on Image Noise and Conspicuity of Hypervascular Liver Tumors: An In Vitro and In Vivo Study. <i>American Journal of Roentgenology</i> , 2016 , 206, 1222-32	5.4	36
459	Noise and spatial resolution properties of a commercially available deep learning-based CT reconstruction algorithm. <i>Medical Physics</i> , 2020 , 47, 3961-3971	4.4	35
458	Ambient illumination revisited: a new adaptation-based approach for optimizing medical imaging reading environments. <i>Medical Physics</i> , 2007 , 34, 81-90	4.4	35
457	Assessment of detective quantum efficiency: intercomparison of a recently introduced international standard with prior methods. <i>Radiology</i> , 2007 , 243, 785-95	20.5	35
456	Comparative scatter and dose performance of slot-scan and full-field digital chest radiography systems. <i>Radiology</i> , 2005 , 235, 940-9	20.5	35
455	Patient-specific dose estimation for pediatric chest CT. <i>Medical Physics</i> , 2008 , 35, 5821-8	4.4	34
454	DQE of direct and indirect digital radiography systems 2001 ,		34
453	Relating noise to image quality indicators in CT examinations with tube current modulation. <i>American Journal of Roentgenology</i> , 2013 , 200, 592-600	5.4	33
452	Automated breast mass detection in 3D reconstructed tomosynthesis volumes: a featureless approach. <i>Medical Physics</i> , 2008 , 35, 3626-36	4.4	33
451	A mathematical model platform for optimizing a multiprojection breast imaging system. <i>Medical Physics</i> , 2008 , 35, 1337-45	4.4	33

450	Dose coefficients in pediatric and adult abdominopelvic CT based on 100 patient models. <i>Physics in Medicine and Biology</i> , 2013 , 58, 8755-68	3.8	32
449	The impact on CT dose of the variability in tube current modulation technology: a theoretical investigation. <i>Physics in Medicine and Biology</i> , 2014 , 59, 4525-48	3.8	32
448	Can compression be reduced for breast tomosynthesis? Monte carlo study on mass and microcalcification conspicuity in tomosynthesis. <i>Radiology</i> , 2009 , 251, 673-82	20.5	32
447	The effect of breast compression on mass conspicuity in digital mammography. <i>Medical Physics</i> , 2008 , 35, 4464-73	4.4	32
446	The development of a population of 4D pediatric XCAT phantoms for imaging research and optimization. <i>Medical Physics</i> , 2015 , 42, 4719-26	4.4	31
445	Effect of dose reduction on the detection of mammographic lesions: a mathematical observer model analysis. <i>Medical Physics</i> , 2007 , 34, 3385-98	4.4	31
444	Design and development of a fully 3D dedicated x-ray computed mamotomography system 2005 , 5745, 189		31
443	Clinical impact of an adaptive statistical iterative reconstruction algorithm for detection of hypervascular liver tumours using a low tube voltage, high tube current MDCT technique. <i>European Radiology</i> , 2013 , 23, 3325-35	8	30
442	Comparison of edge analysis techniques for the determination of the MTF of digital radiographic systems. <i>Physics in Medicine and Biology</i> , 2005 , 50, 3613-25	3.8	30
441	Application of the 4-D XCAT Phantoms in Biomedical Imaging and Beyond. <i>IEEE Transactions on Medical Imaging</i> , 2018 , 37, 680-692	11.7	29
440	Resolution and noise measurements of five CRT and LCD medical displays. <i>Medical Physics</i> , 2006 , 33, 308-19	4.4	29
439	Quantitative CT: technique dependence of volume estimation on pulmonary nodules. <i>Physics in Medicine and Biology</i> , 2012 , 57, 1335-48	3.8	28
438	The Effect of Contrast Material on Radiation Dose at CT: Part I. Incorporation of Contrast Material Dynamics in Anthropomorphic Phantoms. <i>Radiology</i> , 2017 , 283, 739-748	20.5	27
437	Development and application of a suite of 4-D virtual breast phantoms for optimization and evaluation of breast imaging systems. <i>IEEE Transactions on Medical Imaging</i> , 2014 , 33, 1401-9	11.7	27
436	Digital mammography image quality: image display. <i>Journal of the American College of Radiology</i> , 2006 , 3, 615-27	3.5	27
435	Virtual clinical trials in medical imaging: a review. <i>Journal of Medical Imaging</i> , 2020 , 7, 042805	2.6	27
434	Imaging properties of digital magnification radiography. <i>Medical Physics</i> , 2006 , 33, 984-96	4.4	26
433	Patient-specific quantification of image quality: An automated technique for measuring the distribution of organ Hounsfield units in clinical chest CT images. <i>Medical Physics</i> , 2017 , 44, 4736-4746	4.4	25

432	Three-dimensional simulation of lung nodules for paediatric multidetector array CT. <i>British Journal of Radiology</i> , 2009 , 82, 401-11	3.4	25
431	Dual-energy contrast-enhanced breast tomosynthesis: optimization of beam quality for dose and image quality. <i>Physics in Medicine and Biology</i> , 2011 , 56, 6359-78	3.8	25
430	Mass detection on mammograms: influence of signal shape uncertainty on human and model observers. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2009 , 26, 425-38	1.8	25
429	Comparison of patient specific dose metrics between chest radiography, tomosynthesis, and CT for adult patients of wide ranging body habitus. <i>Medical Physics</i> , 2014 , 41, 023901	4.4	24
428	Estimation of radiation exposure for brain perfusion CT: standard protocol compared with deviations in protocol. <i>American Journal of Roentgenology</i> , 2013 , 201, W730-4	5.4	24
427	Pediatric MDCT: towards assessing the diagnostic influence of dose reduction on the detection of small lung nodules. <i>Academic Radiology</i> , 2009 , 16, 872-80	4.3	24
426	A technique optimization protocol and the potential for dose reduction in digital mammography. <i>Medical Physics</i> , 2010 , 37, 962-9	4.4	24
425	Object detectability at increased ambient lighting conditions. <i>Medical Physics</i> , 2008 , 35, 2204-13	4.4	24
424	Assessing task performance in FFDM, DBT, and synthetic mammography using uniform and anthropomorphic physical phantoms. <i>Medical Physics</i> , 2016 , 43, 5593	4.4	24
423	Medical imaging dose optimisation from ground up: expert opinion of an international summit. <i>Journal of Radiological Protection</i> , 2018 , 38, 967-989	1.2	24
422	Prospective estimation of organ dose in CT under tube current modulation. <i>Medical Physics</i> , 2015 , 42, 1575-85	4.4	23
421	Modeling Lung Architecture in the XCAT Series of Phantoms: Physiologically Based Airways, Arteries and Veins. <i>IEEE Transactions on Medical Imaging</i> , 2018 , 37, 693-702	11.7	23
420	A set of 4D pediatric XCAT reference phantoms for multimodality research. <i>Medical Physics</i> , 2014 , 41, 033701	4.4	23
419	Population of 224 realistic human subject-based computational breast phantoms. <i>Medical Physics</i> , 2016 , 43, 23	4.4	23
418	Can Texture Analysis Be Used to Distinguish Benign From Malignant Adrenal Nodules on Unenhanced CT, Contrast-Enhanced CT, or In-Phase and Opposed-Phase MRI?. <i>American Journal of Roentgenology</i> , 2019 , 212, 554-561	5.4	23
417	DukeSim: A Realistic, Rapid, and Scanner-Specific Simulation Framework in Computed Tomography. <i>IEEE Transactions on Medical Imaging</i> , 2019 , 38, 1457-1465	11.7	23
416	Virtual Unenhanced Images at Dual-Energy CT: Influence on Renal Lesion Characterization. <i>Radiology</i> , 2019 , 291, 381-390	20.5	22
415	Effect of gadolinium chelate contrast agents on diffusion weighted MR imaging of the liver, spleen, pancreas and kidney at 3 T. <i>European Journal of Radiology</i> , 2011 , 80, e1-7	4.7	22

414	. <i>IEEE Transactions on Nuclear Science</i> , 2005 , 52, 1243-1250	1.7	22
413	An efficient polyenergetic SART (pSART) reconstruction algorithm for quantitative myocardial CT perfusion. <i>Medical Physics</i> , 2014 , 41, 021911	4.4	21
412	Predictive models for observer performance in CT: applications in protocol optimization 2011 ,		21
411	Finite-element modeling of compression and gravity on a population of breast phantoms for multimodality imaging simulation. <i>Medical Physics</i> , 2016 , 43, 2207	4.4	21
410	Expanding the Concept of Diagnostic Reference Levels to Noise and Dose Reference Levels in CT. <i>American Journal of Roentgenology</i> , 2019 , 213, 889-894	5.4	20
409	Correlation between human detection accuracy and observer model-based image quality metrics in computed tomography. <i>Journal of Medical Imaging</i> , 2016 , 3, 035506	2.6	20
408	Awareness of medical radiation exposure among patients: A patient survey as a first step for effective communication of ionizing radiation risks. <i>Physica Medica</i> , 2017 , 43, 57-62	2.7	19
407	Effective dose efficiency: an application-specific metric of quality and dose for digital radiography. <i>Physics in Medicine and Biology</i> , 2011 , 56, 5099-118	3.8	19
406	Simulation of liver lesions for pediatric CT. <i>Radiology</i> , 2006 , 238, 699-705	20.5	19
405	Optimized radiographic spectra for small animal digital subtraction angiography. <i>Medical Physics</i> , 2006 , 33, 4249-57	4.4	19
404	Tomographic digital subtraction angiography for lung perfusion estimation in rodents. <i>Medical Physics</i> , 2007 , 34, 1546-55	4.4	19
403	Assessment of flat panel LCD primary class display performance based on AAPM TG 18 acceptance protocol. <i>Medical Physics</i> , 2004 , 31, 2155-64	4.4	19
402	Evaluation of Low-Contrast Detectability of Iterative Reconstruction across Multiple Institutions, CT Scanner Manufacturers, and Radiation Exposure Levels. <i>Radiology</i> , 2015 , 277, 124-33	20.5	18
401	Task-based strategy for optimized contrast enhanced breast imaging: analysis of six imaging techniques for mammography and tomosynthesis. <i>Medical Physics</i> , 2014 , 41, 061908	4.4	18
400	Radiation risk index for pediatric CT: a patient-derived metric. <i>Pediatric Radiology</i> , 2017 , 47, 1737-1744	2.8	18
399	The effects of ambient lighting in chest radiology reading rooms. <i>Journal of Digital Imaging</i> , 2012 , 25, 520-6	5.3	18
398	Comparative performance of multiview stereoscopic and mammographic display modalities for breast lesion detection. <i>Medical Physics</i> , 2011 , 38, 1972-80	4.4	18
397	Quantitative breast tomosynthesis: from detectability to estimability. <i>Medical Physics</i> , 2010 , 37, 6157-654.4	4.4	18

396	Contrast-detail analysis of three flat panel detectors for digital radiography. <i>Medical Physics</i> , 2006 , 33, 1707-19	4.4	18
395	Evaluation of a flat panel digital radiographic system for low-dose portable imaging of neonates. <i>Medical Physics</i> , 2003 , 30, 601-7	4.4	18
394	Accurate assessment and prediction of noise in clinical CT images. <i>Medical Physics</i> , 2016 , 43, 475	4.4	17
393	Precision of iodine quantification in hepatic CT: effects of iterative reconstruction with various imaging parameters. <i>American Journal of Roentgenology</i> , 2013 , 200, W475-82	5.4	17
392	Lung nodule detection in pediatric chest CT: quantitative relationship between image quality and radiologist performance. <i>Medical Physics</i> , 2011 , 38, 2609-18	4.4	17
391	A comparative contrast-detail study of five medical displays. <i>Medical Physics</i> , 2008 , 35, 1358-64	4.4	17
390	Measurement of the detective quantum efficiency in digital detectors consistent with the IEC 62220-1 standard: practical considerations regarding the choice of filter material. <i>Medical Physics</i> , 2005 , 32, 2305-11	4.4	17
389	Convolution-based estimation of organ dose in tube current modulated CT. <i>Physics in Medicine and Biology</i> , 2016 , 61, 3935-54	3.8	17
388	How accurate and precise are CT based measurements of iodine concentration? A comparison of the minimum detectable concentration difference among single source and dual source dual energy CT in a phantom study. <i>European Radiology</i> , 2019 , 29, 2069-2078	8	17
387	Image noise and dose performance across a clinical population: Patient size adaptation as a metric of CT performance. <i>Medical Physics</i> , 2017 , 44, 2141-2147	4.4	16
386	Viewing angle performance of medical liquid crystal displays. <i>Medical Physics</i> , 2006 , 33, 645-54	4.4	16
385	Impact of variations in physical parameters on glow curves for planchet heating of TL dosimeters. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1994 , 353, 415-419	1.2	16
384	Micro-CT imaging of breast tumors in rodents using a liposomal, nanoparticle contrast agent. <i>International Journal of Nanomedicine</i> , 2009 , 4, 277-82	7.3	16
383	Patient dose monitoring and the use of diagnostic reference levels for the optimization of protection in medical imaging: current status and challenges worldwide. <i>Journal of Medical Imaging</i> , 2017 , 4, 031214	2.6	15
382	Analysis of a novel offset cone-beam computed mammatomography system geometry for accomodating various breast sizes. <i>Physica Medica</i> , 2006 , 21 Suppl 1, 48-55	2.7	15
381	Size-specific optimization of CT protocols based on minimum detectability. <i>Medical Physics</i> , 2017 , 44, 1301-1311	4.4	14
380	CT breast dose reduction with the use of breast positioning and organ-based tube current modulation. <i>Medical Physics</i> , 2017 , 44, 665-678	4.4	14
379	Volumetric x-ray coherent scatter imaging of cancer in resected breast tissue: a Monte Carlo study using virtual anthropomorphic phantoms. <i>Physics in Medicine and Biology</i> , 2015 , 60, 6355-70	3.8	14

378	Redefining and reinvigorating the role of physics in clinical medicine: A Report from the AAPM Medical Physics 3.0 Ad Hoc Committee. <i>Medical Physics</i> , 2018 , 45, e783	4.4	14
377	Automated characterization of perceptual quality of clinical chest radiographs: validation and calibration to observer preference. <i>Medical Physics</i> , 2014 , 41, 111918	4.4	14
376	DQE of wireless digital detectors: comparative performance with differing filtration schemes. <i>Medical Physics</i> , 2013 , 40, 081910	4.4	14
375	An image-based technique to assess the perceptual quality of clinical chest radiographs. <i>Medical Physics</i> , 2012 , 39, 7019-31	4.4	14
374	Multiprojection correlation imaging for improved detection of pulmonary nodules. <i>American Journal of Roentgenology</i> , 2007 , 188, 1239-45	5.4	14
373	Comparison of LCD and CRT displays based on efficacy for digital mammography. <i>Academic Radiology</i> , 2006 , 13, 1317-26	4.3	14
372	A method for characterizing and matching CT image quality across CT scanners from different manufacturers. <i>Medical Physics</i> , 2017 , 44, 5705-5717	4.4	13
371	An angle-dependent estimation of CT x-ray spectrum from rotational transmission measurements. <i>Medical Physics</i> , 2014 , 41, 062104	4.4	13
370	Impact of resolution and noise characteristics of digital radiographic detectors on the detectability of lung nodules. <i>Medical Physics</i> , 2004 , 31, 1603-13	4.4	13
369	Estimating detectability index : development and validation of an automated methodology. <i>Journal of Medical Imaging</i> , 2018 , 5, 031403	2.6	13
368	Determining organ dose: the holy grail. <i>Pediatric Radiology</i> , 2014 , 44 Suppl 3, 460-7	2.8	12
367	Are uniform phantoms sufficient to characterize the performance of iterative reconstruction in CT? 2013 ,		12
366	The influence of increased ambient lighting on mass detection in mammograms. <i>Academic Radiology</i> , 2009 , 16, 299-304	4.3	12
365	Digital mammography: comparative performance of color LCD and monochrome CRT displays. <i>Academic Radiology</i> , 2007 , 14, 539-46	4.3	12
364	Evaluation of a quality control phantom for digital chest radiography. <i>Journal of Applied Clinical Medical Physics</i> , 2001 , 2, 90	2.3	12
363	Modeling "Textured" Bones in Virtual Human Phantoms. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2019 , 3, 47-53	4.2	12
362	Variability in Radiation Dose From Repeat Identical CT Examinations: Longitudinal Analysis of 2851 Patients Undergoing 12,635 Thoracoabdominal CT Scans in an Academic Health System. <i>American Journal of Roentgenology</i> , 2017 , 208, 1285-1296	5.4	11
361	Assessment of multi-directional MTF for breast tomosynthesis. <i>Physics in Medicine and Biology</i> , 2013 , 58, 1649-61	3.8	11

360	Patient specific computerized phantoms to estimate dose in pediatric CT 2009 ,		11
359	The quantitative potential for breast tomosynthesis imaging. <i>Medical Physics</i> , 2010 , 37, 1004-16	4.4	11
358	Physical measures of image quality in photostimulable phosphor radiographic systems 1997 ,		11
357	Improving mammographic decision accuracy by incorporating observer ratings with interpretation time. <i>British Journal of Radiology</i> , 2006 , 79 Spec No 2, S117-22	3.4	11
356	Effects of automatic tube potential selection on radiation dose index, image quality, and lesion detectability in pediatric abdominopelvic CT and CTA: a phantom study. <i>European Radiology</i> , 2016 , 26, 157-66	8	10
355	Validation of algorithmic CT image quality metrics with preferences of radiologists. <i>Medical Physics</i> , 2019 , 46, 4837-4846	4.4	10
354	An X-ray scatter system for material identification in cluttered objects: A Monte Carlo simulation study. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2014 , 335, 31-38	1.2	10
353	Techniques for virtual lung nodule insertion: volumetric and morphometric comparison of projection-based and image-based methods for quantitative CT. <i>Physics in Medicine and Biology</i> , 2017 , 62, 7280-7299	3.8	10
352	Model-based CT performance assessment and optimization for iodinated and noniodinated imaging tasks as a function of kVp and body size. <i>Medical Physics</i> , 2014 , 41, 081910	4.4	10
351	3D task-transfer function representation of the signal transfer properties of low-contrast lesions in FBP- and iterative-reconstructed CT. <i>Medical Physics</i> , 2018 , 45, 4977-4985	4.4	10
350	Is regulatory compliance enough to ensure excellence in medicine?. <i>Radiologia Medica</i> , 2020 , 125, 904-905	6.5	9
349	Inter-laboratory comparison of channelized hotelling observer computation. <i>Medical Physics</i> , 2018 , 45, 3019-3030	4.4	9
348	Development of an optimal X-ray beam for dual-mode emission and transmission mammotomography. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2004 , 527, 102-109	1.2	9
347	Effect of viewing angle response on DICOM compliance of liquid crystal displays 2004 ,		9
346	Chest radiographic image quality: comparison of asymmetric screen-film, digital storage phosphor, and digital selenium drum systems--preliminary study. <i>Radiographics</i> , 1998 , 18, 745-54	5.4	9
345	Performance Evaluation of Computed Tomography Systems - The Report of AAPM Task Group 233 2019 ,		9
344	A real-time Monte Carlo tool for individualized dose estimations in clinical CT. <i>Physics in Medicine and Biology</i> , 2019 , 64, 215020	3.8	8
343	Design and implementation of coded aperture coherent scatter spectral imaging of cancerous and healthy breast tissue samples. <i>Journal of Medical Imaging</i> , 2016 , 3, 013505	2.6	8

342	Design of anthropomorphic textured phantoms for CT performance evaluation 2014 ,		8
341	Population of 100 realistic, patient-based computerized breast phantoms for multi-modality imaging research 2014 ,		8
340	Extension of DQE to include scatter, grid, magnification, and focal spot blur: a new experimental technique and metric 2009 ,		8
339	Why Medical Image Perception?. <i>Journal of the American College of Radiology</i> , 2006 , 3, 400-401	3.5	8
338	Sonography of fetal choroid plexus cysts: detection depends on cyst size and gestational age. <i>Journal of Ultrasound in Medicine</i> , 2003 , 22, 1219-27	2.9	8
337	Measurements of an optimized beam for x-ray computed mammotomography 2004 , 5368, 311		8
336	Characterization of breast masses for simulation purposes 2004 ,		8
335	Sensitivity of a mixed field dosimetry algorithm to uncertainties in thermoluminescent element readings. <i>Health Physics</i> , 1995 , 68, 340-9	2.3	8
334	Three-dimensionally-printed anthropomorphic physical phantom for mammography and digital breast tomosynthesis with custom materials, lesions, and uniform quality control region. <i>Journal of Medical Imaging</i> , 2019 , 6, 021604	2.6	8
333	Comparison of patient size-based methods for estimating quantum noise in CT images of the lung. <i>Medical Physics</i> , 2009 , 36, 541-6	4.4	8
332	Dual-Source Single-Energy Multidetector CT Used to Obtain Multiple Radiation Exposure Levels within the Same Patient: Phantom Development and Clinical Validation. <i>Radiology</i> , 2017 , 283, 526-537	20.5	7
331	Technical Note: Validation of TG 233 phantom methodology to characterize noise and dose in patient CT data. <i>Medical Physics</i> , 2020 , 47, 1633-1639	4.4	7
330	Optimizing window settings for improved presentation of virtual monoenergetic images in dual-energy computed tomography. <i>Medical Physics</i> , 2017 , 44, 5686-5696	4.4	7
329	Pros and cons of organ shielding for CT imaging. <i>Pediatric Radiology</i> , 2014 , 44 Suppl 3, 495-500	2.8	7
328	CT performance as a variable function of resolution, noise, and task property for iterative reconstructions 2012 ,		7
327	Relevance of MTF and NPS in quantitative CT: towards developing a predictable model of quantitative performance 2012 ,		7
326	Design and Development of a New Multi-Projection X-Ray System for Chest Imaging. <i>IEEE Transactions on Nuclear Science</i> , 2009 , 56, 36-45	1.7	7
325	Optimization of dual energy contrast enhanced breast tomosynthesis for improved mammographic lesion detection and diagnosis 2008 ,		7

324	Toward clinically relevant standardization of image quality. <i>Journal of Digital Imaging</i> , 2004 , 17, 271-8	5.3	7
323	Evaluation of a quality control phantom for digital chest radiography. <i>Journal of Applied Clinical Medical Physics</i> , 2001 , 2, 90-101	2.3	7
322	Health physics consequences of out-patient treatment of non-Hodgkin's lymphoma with 131I-radiolabeled anti-B1 antibody. <i>Health Physics</i> , 2000 , 79, S52-5	2.3	7
321	Comparison of observer performance for real and simulated nodules in chest radiography 1996 , 2712, 60		7
320	Design and fabrication of heterogeneous lung nodule phantoms for assessing the accuracy and variability of measured texture radiomics features in CT. <i>Journal of Medical Imaging</i> , 2019 , 6, 021606	2.6	7
319	A quantitative metrology for performance characterization of five breast tomosynthesis systems based on an anthropomorphic phantom. <i>Medical Physics</i> , 2016 , 43, 1627	4.4	7
318	Incorporation of the Living Heart Model into the 4D XCAT Phantom for Cardiac Imaging Research. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2019 , 3, 54-60	4.2	7
317	Third generation anthropomorphic physical phantom for mammography and DBT: incorporating voxelized 3D printing and uniform chest wall QC region 2017 ,		6
316	Organ doses from CT localizer radiographs: Development, validation, and application of a Monte Carlo estimation technique. <i>Medical Physics</i> , 2019 , 46, 5262-5272	4.4	6
315	High-Pitch Wide-Coverage Fast-Kilovoltage-Switching Dual-Energy CT: Impact of Pitch on Noise, Spatial Resolution, and Iodine Quantification in a Phantom Study. <i>American Journal of Roentgenology</i> , 2019 , 212, W64-W72	5.4	6
314	Cutting to the Chase: With So Much Physics "Stuff," What Do Radiologists Really Need to Know?. <i>American Journal of Roentgenology</i> , 2016 , 206, W9	5.4	6
313	Dose index analytics: more than a low number. <i>Journal of the American College of Radiology</i> , 2014 , 11, 832-4	3.5	6
312	Improved nuclear medicine uniformity assessment with noise texture analysis. <i>Journal of Nuclear Medicine</i> , 2014 , 55, 169-74	8.9	6
311	The effect of dose heterogeneity on radiation risk in medical imaging. <i>Radiation Protection Dosimetry</i> , 2013 , 155, 42-58	0.9	6
310	A Case for Wide-Angle Breast Tomosynthesis. <i>Academic Radiology</i> , 2015 , 22, 860-9	4.3	6
309	A Monte Carlo investigation on the impact of scattered radiation on mammographic resolution and noise 2006 ,		6
308	Bi-plane correlation imaging for improved detection of lung nodules 2003 , 5030, 284		6
307	Method for in-field evaluation of the modulation transfer function of electronic display devices 2001 , 4319, 599		6

306	Impact of breast structure on lesion detection in breast tomosynthesis, a simulation study. <i>Journal of Medical Imaging</i> , 2016 , 3, 035504	2.6	6
305	Comparison of Low Dose Performance of Photon-Counting and Energy Integrating CT. <i>Academic Radiology</i> , 2021 , 28, 1754-1760	4.3	6
304	Second generation anthropomorphic physical phantom for mammography and DBT: Incorporating voxelized 3D printing and inkjet printing of iodinated lesion inserts 2016 ,		6
303	Correlation of Algorithmic and Visual Assessment of Lesion Detection in Clinical Images. <i>Academic Radiology</i> , 2020 , 27, 847-855	4.3	6
302	Report of AAPM Task Group 162: Software for planar image quality metrology. <i>Medical Physics</i> , 2018 , 45, e32-e39	4.4	6
301	Accuracy and variability of texture-based radiomics features of lung lesions across CT imaging conditions 2017 ,		5
300	Development of a dynamic 4D anthropomorphic breast phantom for contrast-based breast imaging 2012 ,		5
299	Comparison of conventional and simulated reduced-tube current MDCT for evaluation of suspected appendicitis in the pediatric population. <i>American Journal of Roentgenology</i> , 2013 , 201, 651-8	5.4	5
298	Experimental benchmarking of a Monte Carlo dose simulation code for pediatric CT 2007 ,		5
297	Luminance and contrast performance of liquid crystal displays for mammographic applications. <i>Technology in Cancer Research and Treatment</i> , 2004 , 3, 429-36	2.7	5
296	Physical evaluation of a high-frame-rate extended dynamic range flat panel detector for real-time cone beam computed tomography applications 2005 ,		5
295	Size-based quality-informed framework for quantitative optimization of pediatric CT. <i>Journal of Medical Imaging</i> , 2017 , 4, 031209	2.6	5
294	Systematic analysis of bias and variability of morphologic features for lung lesions in computed tomography. <i>Journal of Medical Imaging</i> , 2019 , 6, 013504	2.6	5
293	From patient-informed to patient-specific organ dose estimation in clinical computed tomography 2018 ,		5
292	Multi-organ segmentation in clinical-computed tomography for patient-specific image quality and dose metrology 2019 ,		5
291	Special Section Guest Editorial: Special Section on 3D Printing in Medical Imaging. <i>Journal of Medical Imaging</i> , 2019 , 6, 1	2.6	5
290	Virtual Imaging Trials for Coronavirus Disease (COVID-19). <i>American Journal of Roentgenology</i> , 2021 , 216, 362-368	5.4	5
289	Automated, patient-specific estimation of regional imparted energy and dose from tube current modulated computed tomography exams across 13 protocols. <i>Journal of Medical Imaging</i> , 2017 , 4, 013503	2.6	4

288	Evaluation of Simulated Lesions as Surrogates to Clinical Lesions for Thoracic CT Volumetry: The Results of an International Challenge. <i>Academic Radiology</i> , 2019 , 26, e161-e173	4.3	4
287	Implementation of the ACR Dose Index Registry. <i>Journal of the American College of Radiology</i> , 2015 , 12, 312-3	3.5	4
286	Breast dose reduction with organ-based, wide-angle tube current modulated CT. <i>Journal of Medical Imaging</i> , 2017 , 4, 031208	2.6	4
285	Determination of contrast media administration to achieve a targeted contrast enhancement in computed tomography. <i>Journal of Medical Imaging</i> , 2016 , 3, 013501	2.6	4
284	Automated quality control assessment of clinical chest images. <i>Medical Physics</i> , 2018 , 45, 4377-4391	4.4	4
283	Evaluation of two objective methods to optimize kVp and personnel exposure using a digital indirect flat panel detector and simulated veterinary patients. <i>Veterinary Radiology and Ultrasound</i> , 2013 , 54, 9-16	1.2	4
282	What observer models best reflect low-contrast detectability in CT? 2015 ,		4
281	Experimental implementation of coded aperture coherent scatter spectral imaging of cancerous and healthy breast tissue samples 2015 ,		4
280	Projection-based dose metric: accuracy testing and applications for CT design 2013 ,		4
279	Development of matched virtual and physical breast phantoms based on patient data 2013 ,		4
278	Synthetic positron emission tomography-computed tomography images for use in perceptual studies. <i>Seminars in Nuclear Medicine</i> , 2011 , 41, 437-48	5.4	4
277	Methodology of NEQ (f) analysis for optimization and comparison of digital breast tomosynthesis acquisition techniques and reconstruction algorithms 2007 ,		4
276	Analyzing the effect of dose reduction on the detection of mammographic lesions using mathematical observer models 2006 ,		4
275	A novel method to characterize the MTF in 3D for computed mammothography 2006 , 6142, 697		4
274	Optimal display processing for digital radiography 2001 ,		4
273	Local complexity metrics to quantify the effect of anatomical noise on detectability of lung nodules in chest CT imaging. <i>Journal of Medical Imaging</i> , 2018 , 5, 045502	2.6	4
272	How reliable are texture measurements? 2018 ,		4
271	Estimating Patient Organ Dose with Computed Tomography: A Review of Present Methodology and Required DICOM Information A Joint Report of AAPM Task Group 246 and the European Federation of Organizations for Medical Physics (EFOMP) 2019 ,		4

270	A comparison of COVID-19 and imaging radiation risk in clinical patient populations. <i>Journal of Radiological Protection</i> , 2020 ,	1.2	4
269	Patient-Informed Organ Dose Estimation in Clinical CT: Implementation and Effective Dose Assessment in 1048 Clinical Patients. <i>American Journal of Roentgenology</i> , 2021 , 216, 824-834	5.4	4
268	Technical Note: Gray tracking in medical color displays-A report of Task Group 196. <i>Medical Physics</i> , 2016 , 43, 4017	4.4	4
267	Patient-based Performance Assessment for Pediatric Abdominal CT: An Automated Monitoring System Based on Lesion Detectability and Radiation Dose. <i>Academic Radiology</i> , 2021 , 28, 217-224	4.3	4
266	Comparison of 12 surrogates to characterize CT radiation risk across a clinical population. <i>European Radiology</i> , 2021 , 31, 7022-7030	8	4
265	Airways, vasculature, and interstitial tissue: anatomically informed computational modeling of human lungs for virtual clinical trials 2017 ,		3
264	Development of a scanner-specific simulation framework for photon-counting computed tomography. <i>Biomedical Physics and Engineering Express</i> , 2019 , 5,	1.5	3
263	Why physics in medicine?. <i>Physica Medica</i> , 2019 , 64, 319-322	2.7	3
262	Prospective optimization of CT under tube current modulation: I. organ dose 2014 ,		3
261	Monte-Carlo simulations of a coded-aperture x-ray scatter imaging system for molecular imaging 2013 ,		3
260	Hallway Conversations in Physics. <i>American Journal of Roentgenology</i> , 2017 , 208, W24-W27	5.4	3
259	Simulation of anatomical texture in voxelized XCAT phantoms 2013 ,		3
258	Effective DQE (eDQE) for monoscopic and stereoscopic chest radiography imaging systems with the incorporation of anatomical noise. <i>Medical Physics</i> , 2013 , 40, 091916	4.4	3
257	3D task-based performance assessment metrics for optimization of performance and dose in breast tomosynthesis 2011 ,		3
256	Task-based strategy for optimized contrast enhanced breast imaging: analysis of six imaging techniques for mammography and tomosynthesis 2012 ,		3
255	Plate-specific gain map correction for the improvement of detective quantum efficiency in computed radiography. <i>Medical Physics</i> , 2012 , 39, 1495-504	4.4	3
254	Series of 4D adult XCAT phantoms for imaging research and dosimetry 2012 ,		3
253	Use of effective detective quantum efficiency to optimise radiographic exposures for chest imaging with computed radiography 2009 ,		3

252	Utility of a prototype liposomal contrast agent for x-ray imaging of breast cancer: a proof of concept using micro-CT in small animals 2008 ,		3
251	Toward quantification of breast tomosynthesis imaging 2008 ,		3
250	Design of a new multi-projection imaging system for chest radiography 2007 ,		3
249	A method for reduction of eye fatigue by optimizing the ambient light conditions in radiology reading rooms 2006 , 6145, 10		3
248	Clinical verification of TG18 methodology for display quality evaluation 2003 , 5029, 484		3
247	Liquid-crystal displays for medical imaging: a discussion of monochrome versus color 2004 ,		3
246	Detector evaluation of a prototype amorphous selenium-based full field digital mammography system 2005 ,		3
245	Effect of display resolution on the detection of mammographic lesions 2005 ,		3
244	An atlas of selected beta-ray spectra and depth-dose distributions in lithium fluoride and soft tissue generated by a fast Monte Carlo-based sampling method. <i>Radiation Physics and Chemistry</i> , 1996 , 48, 719-725	2.5	3
243	A limited bibliography of the Federal Government-funded human radiation experiments. <i>Health Physics</i> , 1995 , 69, 885-91	2.3	3
242	Systematic analysis of bias and variability of texture measurements in computed tomography. <i>Journal of Medical Imaging</i> , 2019 , 6, 033503	2.6	3
241	Virtual Clinical Trials: Why and What (Special Section Guest Editorial). <i>Journal of Medical Imaging</i> , 2020 , 7, 042801	2.6	3
240	A rapid GPU-based Monte-Carlo simulation tool for individualized dose estimations in CT 2018 ,		3
239	TH-E-217BCD-09: Task-Based Image Quality of CT Iterative Reconstruction Across Three Commercial Implementations. <i>Medical Physics</i> , 2012 , 39, 4016-4016	4.4	3
238	Quantification of uncertainty in the assessment of coronary plaque in CCTA through a dynamic cardiac phantom and 3D-printed plaque model. <i>Journal of Medical Imaging</i> , 2018 , 5, 013501	2.6	3
237	Effect of deep learning image reconstruction in the prediction of resectability of pancreatic cancer: Diagnostic performance and reader confidence. <i>European Journal of Radiology</i> , 2021 , 141, 109825	4.7	3
236	Comparison of model and human observer performance in FFDM, DBT, and synthetic mammography 2016 ,		3
235	The Need for Practical and Accurate Measures of Value for Radiology. <i>Journal of the American College of Radiology</i> , 2019 , 16, 810-813	3.5	3

234	Signal Detection Theory: A Brief History 2018 , 28-48		3
233	Dependency of prescribed CT dose on table height, patient size, and localizer acquisition for one clinical MDCT. <i>Physica Medica</i> , 2018 , 55, 56-60	2.7	3
232	iPhantom: A Framework for Automated Creation of Individualized Computational Phantoms and Its Application to CT Organ Dosimetry. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021 , 25, 3061-3072	7.2	3
231	Accuracy assessment and characterization of x-ray coded aperture coherent scatter spectral imaging for breast cancer classification. <i>Journal of Medical Imaging</i> , 2017 , 4, 013505	2.6	2
230	Validation of lesion simulations in clinical CT data for anonymized chest and abdominal CT databases. <i>Medical Physics</i> , 2019 , 46, 1931-1937	4.4	2
229	A database of 40 patient-based computational models for benchmarking organ dose estimates in CT. <i>Medical Physics</i> , 2020 , 47, 6562-6566	4.4	2
228	Design, fabrication, and implementation of voxel-based 3D printed textured phantoms for task-based image quality assessment in CT 2016 ,		2
227	Development and comparison of projection and image space 3D nodule insertion techniques 2016 ,		2
226	Synthesized interstitial lung texture for use in anthropomorphic computational phantoms 2016 ,		2
225	Coded aperture coherent scatter imaging for breast cancer detection: a Monte Carlo evaluation 2016 ,		2
224	Preliminary evaluation of biplane correlation (BCI) stereographic imaging for lung nodule detection. <i>Journal of Digital Imaging</i> , 2013 , 26, 109-14	5.3	2
223	Comment on [Comparison of patient specific dose metrics between chest radiography, tomosynthesis, and CT for adult patients of wide ranging body habitus][Med. Phys. 41(2), 023901 (12pp.) (2014)]. <i>Medical Physics</i> , 2015 , 42, 2094	4.4	2
222	A second generation of physical anthropomorphic 3D breast phantoms based on human subject data 2014 ,		2
221	X-ray coherent scatter imaging for surgical margin detection: a Monte Carlo study 2014 ,		2
220	A computerized scheme for lung nodule detection in multiprojection chest radiography. <i>Medical Physics</i> , 2012 , 39, 2001-12	4.4	2
219	Digital breast tomosynthesis: a concise overview. <i>Imaging in Medicine</i> , 2013 , 5, 467-476	1	2
218	Toward an international consensus strategy for periodic quality control of digital breast tomosynthesis systems 2010 ,		2
217	Quantification of radiographic image quality based on patient anatomical contrast-to-noise ratio: a preliminary study with chest images 2010 ,		2

216	Towards optimized acquisition scheme for multiprojection correlation imaging of breast cancer. <i>Academic Radiology</i> , 2009 , 16, 456-63	4-3	2
215	Inter-reader variability in alternate forced choice studies 2008 ,		2
214	Computer-aided detection of breast masses in tomosynthesis reconstructed volumes using information-theoretic similarity measures 2008 ,		2
213	Potential for lower absorbed dose in digital mammography: A JAFROC experiment using clinical hybrid images with simulated dose reduction 2006 ,		2
212	Effect of increased ambient lighting on detectability: a psychophysical study 2007 ,		2
211	Visual assessment of angular response in medical liquid crystal displays. <i>Journal of Digital Imaging</i> , 2006 , 19, 240-8	5-3	2
210	Impact of resolution and noise characteristics of digital radiographic detectors on the detectability of lung nodules 2003 ,		2
209	Optimizing beam quality for x-ray computed mamotomography 2003 ,		2
208	Use of Wiener filtering in the measurement of the two-dimensional modulation transfer function 2000 , 3977, 670		2
207	Performance of low-voltage phosphors in emissive flat panel displays for radiologic applications 1996 , 2707, 312		2
206	Inter-algorithm lesion volumetry comparison of real and 3D simulated lung lesions in CT 2017 ,		2
205	3D printed anthropomorphic physical phantom for mammography and DBT with high contrast custom materials, lesions and uniform chest wall region 2018 ,		2
204	Can a 3D task transfer function accurately represent the signal transfer properties of low-contrast lesions in non-linear CT systems? 2018 ,		2
203	Virtual clinical trial in action: textured XCAT phantoms and scanner-specific CT simulator to characterize noise across CT reconstruction algorithms 2018 ,		2
202	TU-C-18C-01: Medical Physics 1.0 to 2.0: Introduction and Panel Discussion. <i>Medical Physics</i> , 2014 , 41, 461-462	4-4	2
201	WE-D-18A-02: Performance Evaluation of Automatic Exposure Control (AEC) Across 12 Clinical CT Systems. <i>Medical Physics</i> , 2014 , 41, 498-498	4-4	2
200	TU-CD-207-08: Intrinsic Image Quality Comparison of Synthesized 2-D and FFDM Images. <i>Medical Physics</i> , 2015 , 42, 3611-3612	4-4	2
199	TH-AB-201-12: A Consumer Report for Mobile Digital Radiography: A Holistic Comparative Evaluation Across Four Systems. <i>Medical Physics</i> , 2015 , 42, 3720-3720	4-4	2

198	TU-H-207A-05: Automated Early Identification of An Excessive Air-In-Oil X-Ray Tube Artifact That Mimics Acute Cerebral Infarct. <i>Medical Physics</i> , 2016 , 43, 3772-3772	4.4	2
197	TH-AB-207A-01: Contrast-Enhanced CT: Correlation of Radiation Dose and Biological Effect. <i>Medical Physics</i> , 2016 , 43, 3859-3859	4.4	2
196	U.S. Diagnostic Reference Levels and Achievable Doses for 10 Pediatric CT Examinations. <i>Radiology</i> , 2021 , 211241	20.5	2
195	Estimability index for volume quantification of homogeneous spherical lesions in computed tomography. <i>Journal of Medical Imaging</i> , 2018 , 5, 031404	2.6	2
194	Development of a fast, voxel-based, and scanner-specific CT simulator for image-quality-based virtual clinical trials 2018 ,		2
193	Interchangeability between real and three-dimensional simulated lung tumors in computed tomography: an interalgorithm volumetry study. <i>Journal of Medical Imaging</i> , 2018 , 5, 035504	2.6	2
192	Using inkjet 3D printing to create contrast-enhanced textured physical phantoms for CT 2019 ,		2
191	Virtual clinical trial for quantifying the effects of beam collimation and pitch on image quality in computed tomography. <i>Journal of Medical Imaging</i> , 2020 , 7, 042806	2.6	2
190	Evaluation of Coronary Plaques and Stents with Conventional and Photon-counting CT: Benefits of High-Resolution Photon-counting CT. <i>Radiology: Cardiothoracic Imaging</i> , 2021 , 3, e210102	8.3	2
189	Multi-projection Correlation Imaging as a New Diagnostic Tool for Improved Breast Cancer Detection. <i>Lecture Notes in Computer Science</i> , 2008 , 635-642	0.9	2
188	Organ dose variability and trends in tomosynthesis and radiography. <i>Journal of Medical Imaging</i> , 2017 , 4, 031207	2.6	2
187	Variability in image quality and radiation dose within and across 97 medical facilities. <i>Journal of Medical Imaging</i> , 2021 , 8, 052105	2.6	2
186	Medical Physics 3.0: Ensuring Quality and Safety in Medical Imaging. <i>Health Physics</i> , 2019 , 116, 247-255	2.3	2
185	Minimum perceivable size difference: how well can radiologists visually detect a change in lung nodule size from CT images?. <i>European Radiology</i> , 2021 , 31, 1947-1955	8	2
184	Cell and extracellular matrix growth theory and its implications for tumorigenesis. <i>BioSystems</i> , 2021 , 201, 104331	1.9	2
183	Breast Screen Reader Assessment Strategy (BREAST): A Research Infrastructure with a Translational Objective 2018 , 343-356		2
182	Why Physics in Medicine?. <i>Journal of the American College of Radiology</i> , 2018 , 15, 1008-1012	3.5	2
181	Clinical Ultrasonography Physics 2020 , 261-286		1

180	Clinical Mammography Physics 2020 , 89-106		1
179	Clinically Acceptable Optimized Dose Reduction in Computed Tomographic Imaging of Necrotizing Pancreatitis Using a Noise Addition Software Tool. <i>Journal of Computer Assisted Tomography</i> , 2018 , 42, 197-203	2.2	1
178	Organ dose conversion coefficients for tube current modulated CT protocols for an adult population 2016 ,		1
177	Estimation of breast dose saving potential using a breast positioning technique for organ-based tube current modulated CT 2016 ,		1
176	The development of a population of 4D pediatric XCAT phantoms for CT imaging research and optimization 2014 ,		1
175	A task-based comparison of two reconstruction algorithms for digital breast tomosynthesis 2014 ,		1
174	Point/Counterpoint: The 2014 initiative can have potentially unintended negative consequences for medical physics in diagnostic imaging and nuclear medicine. <i>Medical Physics</i> , 2012 , 39, 1167-8; discussion 1168-9	4.4	1
173	Development of a phantom-based methodology for the assessment of quantification performance in CT 2013 ,		1
172	Comparative dosimetry of radiography, tomosynthesis, and CT for chest imaging across 59 adult patients 2013 ,		1
171	The myth of mean dose as a surrogate for radiation risk? 2010 ,		1
170	Patient- and cohort-specific dose and risk estimation for abdominopelvic CT: a study based on 100 patients 2012 ,		1
169	The effect of dose reductions on lesion detection in head CT 2009 ,		1
168	Mass detection on mammograms: signal variations and performance changes for human and model observers 2008 ,		1
167	A contrast-detail comparison of computed mammatomography and digital mammography 2007 ,		1
166	Visual image quality metrics for optimization of breast tomosynthesis acquisition technique 2007 ,		1
165	Beam Optimization for Digital Mammography III. <i>Lecture Notes in Computer Science</i> , 2006 , 273-280	0.9	1
164	The impact of angular separation on the performance of biplane correlation imaging for lung nodule detection 2006 ,		1
163	Effect of local background anatomical patterns on the detection of subtle lung nodules in chest radiographs 1998 , 3340, 44		1

162	Special Section Guest Editorial: Visions of Safety: Perspectives on Radiation Exposure and Risk in Medical Imaging. <i>Journal of Medical Imaging</i> , 2017 , 4, 031201	2.6	1
161	Deep learning of 3D CT images for organ segmentation using 2D multi-channel SegNet model 2019 ,		1
160	Utilizing deformable image registration to create new living human heart models for imaging simulation 2019 ,		1
159	Impact of energy threshold on material quantification of contrast agents in photon-counting CT 2019 ,		1
158	Modeling dynamic, nutrient-access-based lesion progression using stochastic processes 2019 ,		1
157	MO-D-W-608-01: Display Evaluation Demonstration Workshop. <i>Medical Physics</i> , 2005 , 32, 2063-2063	4.4	1
156	MO-D-BRA-01: Limits of Dose Reduction in CT: Where are They and How Will We Know When We Get There?. <i>Medical Physics</i> , 2012 , 39, 3868	4.4	1
155	SU-C-12A-03: The Impact of Contrast Medium On Radiation Dose in CT: A Systematic Evaluation Across 58 Patient Models. <i>Medical Physics</i> , 2014 , 41, 106-106	4.4	1
154	TH-E-9A-01: Medical Physics 1.0 to 2.0, Session 4: Computed Tomography, Ultrasound and Nuclear Medicine. <i>Medical Physics</i> , 2014 , 41, 574-575	4.4	1
153	SU-G-206-13: Validating Dose Split: A Method to Image the Same Patient at Multiple Doses with a Single CT Acquisition. <i>Medical Physics</i> , 2016 , 43, 3642-3642	4.4	1
152	TU-FG-209-07: Medical Physics 1.0 Versus Medical Physics 2.0: A Case Study. <i>Medical Physics</i> , 2016 , 43, 3762-3762	4.4	1
151	Patient Communication for Medical Physicists. <i>Journal of the American College of Radiology</i> , 2021 , 18, 1601-1604	3.5	1
150	Classification of Multiple Diseases on Body CT Scans Using Weakly Supervised Deep Learning.. <i>Radiology: Artificial Intelligence</i> , 2022 , 4, e210026	8.7	1
149	Deep learning classification of COVID-19 in chest radiographs: performance and influence of supplemental training. <i>Journal of Medical Imaging</i> , 2021 , 8, 064501	2.6	1
148	Reduced-Dose Deep Learning Reconstruction for Abdominal CT of Liver Metastases.. <i>Radiology</i> , 2022 , 211838	20.5	1
147	Development and validation of an automated methodology to assess perceptual noise texture in liver CT. <i>Journal of Medical Imaging</i> , 2021 , 8, 052113	2.6	1
146	Bias and variability in morphology features of lung lesions across CT imaging conditions 2018 ,		1
145	Knowledge Transfer across Breast Cancer Screening Modalities: A Pilot Study Using an Information-Theoretic CADe System for Mass Detection. <i>Lecture Notes in Computer Science</i> , 2008 , 292-298	0.9	1

144	Quantification of Minimum Detectable Difference in Radiomics Features Across Lesions and CT Imaging Conditions. <i>Academic Radiology</i> , 2021 , 28, 1570-1581	4.3	1
143	Development of local complexity metrics to quantify the effect of anatomical noise on detectability of lung nodules in chest CT imaging 2017 ,		1
142	TH-E-217BCD-07: Quantitative Comparison of Noise Texture Across CT Scanners from Different Vendors. <i>Medical Physics</i> , 2012 , 39, 4016-4016	4.4	1
141	Automated Early Identification of an Excessive Air-in-Oil X-ray Tube Artifact That Mimics Acute Cerebral Infarct. <i>Journal of Computer Assisted Tomography</i> , 2019 , 43, 18-21	2.2	1
140	Automated quality control in nuclear medicine using the structured noise index. <i>Journal of Applied Clinical Medical Physics</i> , 2020 , 21, 80-86	2.3	1
139	Variability of quantitative measurements of metastatic liver lesions: a multi-radiation-dose-level and multi-reader comparison. <i>Abdominal Radiology</i> , 2021 , 46, 226-236	3	1
138	A Clinically Driven Task-Based Comparison of Photon Counting and Conventional Energy Integrating CT for Soft Tissue, Vascular, and High-Resolution Tasks. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2021 , 5, 588-595	4.2	1
137	Clinical concordance with Image Gently guidelines for pediatric computed tomography: a study across 663,417 CT scans at 53 clinical facilities. <i>Pediatric Radiology</i> , 2021 , 51, 800-810	2.8	1
136	Review of Technical Advancements and Clinical Applications of Photon-counting Computed Tomography in Imaging of the Thorax. <i>Journal of Thoracic Imaging</i> , 2021 , 36, 84-94	5.6	1
135	Assessment of pleural invasion and adhesion of lung tumors with dynamic chest radiography: A virtual clinical imaging study. <i>Medical Physics</i> , 2021 , 48, 1616-1623	4.4	1
134	The First Moments of Medical Image Perception 2018 , 188-196		1
133	Signal Detection in Radiology 2018 , 49-75		1
132	Satisfaction of Search in Radiology 2018 , 121-166		1
131	Perception of Volumetric Data 2018 , 307-327		1
130	Performance Assessment Using Standardized Data Sets: The PERFORMS Scheme in Breast Screening and Other Domains 2018 , 328-342		1
129	Quantitative Imaging: Images to Numbers 2018 , 407-414		1
128	Ergonomics 2.0: Fatigue in Medical Imaging 2018 , 483-494		1
127	Receiver Operating Characteristic Analysis: Basic Concepts and Practical Applications 2018 , 227-244		1

126	Perception and Training 2018 , 470-482		1
125	Medical physics 3.0 versus 1.0: A case study in digital radiography quality control. <i>Journal of Applied Clinical Medical Physics</i> , 2018 , 19, 694-707	2.3	1
124	CT Radiomic Features of Superior Mesenteric Artery Involvement in Pancreatic Ductal Adenocarcinoma: A Pilot Study. <i>Radiology</i> , 2021 , 301, 610-622	20.5	1
123	Design and implementation of a practical quality control program for dual-energy CT. <i>Journal of Applied Clinical Medical Physics</i> , 2021 , 22, 249-260	2.3	1
122	A scanner-specific framework for simulating CT images with tube current modulation. <i>Physics in Medicine and Biology</i> , 2021 , 66,	3.8	1
121	Anatomically- and physiologically-informed computational model of hepatic contrast perfusion for virtual imaging trials.. <i>Medical Physics</i> , 2022 ,	4.4	1
120	Can Realistic Liver Tissue Surrogates Accurately Quantify the Impact of Reduced-kV Imaging on Attenuation and Contrast of Parenchyma and Lesions?. <i>Academic Radiology</i> , 2019 , 26, 640-650	4.3	0
119	Projection X-ray Imaging 2019 , 217-242		0
118	Estimation of Radiation Dose in CT Based on Projection Data. <i>Journal of Digital Imaging</i> , 2016 , 29, 615-215.3	5.3	0
117	Numerical simulation of a TLD pulsed laser-heating scheme for determination of shallow dose and deep dose in low-LET radiation fields. <i>Applied Radiation and Isotopes</i> , 2000 , 52, 1419-29	1.7	0
116	MO-E-17A-02: Incorporation of Contrast Medium Dynamics in Anthropomorphic Phantoms: The Advent of 5D XCAT Models. <i>Medical Physics</i> , 2014 , 41, 424-424	4.4	0
115	Hallway Conversations in Physics. <i>American Journal of Roentgenology</i> , 2020 , 215, W50-W52	5.4	0
114	Modeling Patient-Informed Liver Contrast Perfusion in Contrast-enhanced Computed Tomography. <i>Journal of Computer Assisted Tomography</i> , 2020 , 44, 882-886	2.2	0
113	Medical physics 3.0: A renewed model for practicing medical physics in clinical imaging.. <i>Physica Medica</i> , 2022 , 94, 53-57	2.7	0
112	Constancy Checking of Digital Breast Tomosynthesis Systems. <i>Lecture Notes in Computer Science</i> , 2010 , 518-525	0.9	0
111	TU-C-103-01: A Framework for 3D Modeling of Anthropomorphic Lesions in CT. <i>Medical Physics</i> , 2013 , 40, 436-436	4.4	0
110	Task-dependent estimability index to assess the quality of cardiac computed tomography angiography for quantifying coronary stenosis. <i>Journal of Medical Imaging</i> , 2021 , 8, 013501	2.6	0
109	Science and practice of imaging physics through 50 years of SPIE Medical Imaging conferences.. <i>Journal of Medical Imaging</i> , 2022 , 9, 012205	2.6	0

108 Imaging Science **2019**, 89-141

107 Imaging Operation and Infrastructure **2019**, 181-216

106 Volumetric X-ray Imaging **2019**, 243-269

105 Clinical Fluoroscopy Physics **2020**, 145-167

104 Clinical CT Physics **2020**, 169-173

103 Clinical CT Physics **2020**, 175-192

102 Clinical Nuclear Imaging Physics **2020**, 211-222

101 Clinical Nuclear Imaging Physics **2020**, 223-248

100 Clinical Ultrasonography Physics **2020**, 249-260

99 Clinical Ultrasonography Physics **2020**, 287-302

98 Clinical MRI Physics **2020**, 303-315

97 Clinical MRI Physics **2020**, 317-338

96 Clinical MRI Physics **2020**, 339-361

95 Clinical Physics in Informatics Display **2020**, 373-412

94 Clinical Physics in Imaging Informatics **2020**, 413-427

93 Clinical Radiography Physics **2020**, 23-34

92 Clinical Radiography Physics **2020**, 35-75

91 Clinical Mammography Physics **2020**, 77-88

90	Clinical Mammography Physics 2020 , 107-121	
89	Clinical Fluoroscopy Physics 2020 , 129-143	
88	A Simulation Paradigm for Evaluation of Subtle Liver Lesions at Pediatric CT: Performance and Confidence. <i>Radiology Imaging Cancer</i> , 2019 , 1, e190027	1.4
87	Organ localization: toward prospective patient-specific organ dosimetry in computed tomography. <i>Medical Physics</i> , 2014 , 41, 121908	4.4
86	Biplane correlation imaging: a feasibility study based on phantom and human data. <i>Journal of Digital Imaging</i> , 2012 , 25, 137-47	5.3
85	Effect of Iodine-based Contrast Material on Radiation Dose at CT. <i>Radiology</i> , 2017 , 285, 1053-1054	20.5
84	Biplane correlation imaging for lung nodule detection: initial human subject results 2006 , 6144, 646	
83	Fast search and localization algorithm based on human visual perception modeling: an application for fast localization of structures in mammograms 2003 , 5034, 270	
82	P-186: A Study of CRT (5-Mpixel) vs. LCD (9-Mpixel) Displays for Breast Lesion Detection in Full-Field Digital Mammography and Ultrasound (FFDMUS) Data Sets via Image-Enhancement Algorithms. <i>Digest of Technical Papers SID International Symposium</i> , 2005 , 36, 368	0.5
81	13.3: MTF and NPS Study of High-Resolution LCDs and CRTs for Mammography. <i>Digest of Technical Papers SID International Symposium</i> , 2005 , 36, 196	0.5
80	Objective performance evaluation of medical image displays: a preliminary report of the AAPM TG18 2001 , 4295, 159	
79	The performance of digital x-ray imaging systems in detection of subtle lung nodules. <i>Medical Physics</i> , 1998 , 25, 2077-2077	4.4
78	Corrections to "iPhantom: A Framework for Automated Creation of Individualized Computational Phantoms and its Application to CT Organ Dosimetry".. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2022 , 26, 478	7.2
77	Quantitative analysis of changes in lung density by dynamic chest radiography in association with CT values: a virtual imaging study and initial clinical corroboration.. <i>Radiological Physics and Technology</i> , 2022 , 15, 45	1.7
76	Breast Mass Detection under Increased Ambient Lighting. <i>Lecture Notes in Computer Science</i> , 2008 , 243-248	2.9
75	Assessment of Low Energies and Slice Depth in the Quantification of Breast Tomosynthesis. <i>Lecture Notes in Computer Science</i> , 2008 , 530-536	0.9
74	WE-E-I-609-01: Advances In Perception & Visualization. <i>Medical Physics</i> , 2005 , 32, 2142-2142	4.4
73	MO-E-W-608-01: Display Evaluation Demonstration Workshop. <i>Medical Physics</i> , 2005 , 32, 2073-2073	4.4

- 72 TU-FF-A3-02: Preliminary Investigations Into Combined CT/SPECT Imaging Onboard Therapy Machines. *Medical Physics*, **2006**, 33, 2221-2221 4.4
- 71 MO-D-230C-01: Evaluation of Medical Displays. *Medical Physics*, **2006**, 33, 2169-2169 4.4
- 70 MO-E-230C-00: Display Evaluation Demonstration Workshop: Part II. *Medical Physics*, **2006**, 33, 2176-2177.4
- 69 TH-D-M100F-01: An Evaluation of Noise in Radiotracer Emission Imaging Using Flat-Panel Detectors. *Medical Physics*, **2007**, 34, 2636-2636 4.4
- 68 SU-FF-I-28: Evaluation of a Noise Addition Software for Simulating Low Dose MDCT Images. *Medical Physics*, **2007**, 34, 2344-2344 4.4
- 67 TU-B-M100J-01: Optimizing Mammography Image Quality and Dose: X-Ray Spectrum and Exposure Parameter Selection. *Medical Physics*, **2007**, 34, 2540-2541 4.4
- 66 TU-E-L100E-01: Image Quality Measurement Workshop. *Medical Physics*, **2007**, 34, 2570-2571 4.4
- 65 TU-EE-A4-06: Experimental Evaluation of Effective Detective Quantum Efficiency for Digital Radiographic Imaging Systems. *Medical Physics*, **2007**, 34, 2564-2564 4.4
- 64 CT Performance Optimization **2020**, 143-164
- 63 CT-Based Quantification **2020**, 289-304
- 62 CT Practice Monitoring **2020**, 199-220
- 61 Development, validation, and relevance of in vivo low-contrast task transfer function to estimate detectability in clinical CT images. *Medical Physics*, **2021**, 48, 7698 4.4
- 60 SU-F-18C-07: Automated CT QC Program with Analytics, Archival, and Notification Capabilities. *Medical Physics*, **2014**, 41, 404-404 4.4
- 59 MO-C-18A-01: Advances in Model-Based 3D Image Reconstruction. *Medical Physics*, **2014**, 41, 416-417 4.4
- 58 SU-E-I-94: Automated Image Quality Assessment of Radiographic Systems Using An Anthropomorphic Phantom. *Medical Physics*, **2014**, 41, 152-152 4.4
- 57 SU-E-I-91: Reproducibility in Prescribed Dose in AEC CT Scans Due to Table Height, Patient Size, and Localizer Acquisition Order. *Medical Physics*, **2014**, 41, 151-151 4.4
- 56 MO-F-CAMPUS-I-03: GPU Accelerated Monte Carlo Technique for Fast Concurrent Image and Dose Simulation. *Medical Physics*, **2015**, 42, 3583-3583 4.4
- 55 TU-FG-209-06: Quantitative Evaluation of the Temporal Performance of Clinical Fluoroscopic Imaging Systems: The Temporal Modulation Transfer Function (TMTF). *Medical Physics*, **2016**, 43, 3761-3762 4.4

54	TH-CD-207B-04: Is TTF a True Representation of the Sharpness Property of a Non-Linear CT System?. <i>Medical Physics</i> , 2016 , 43, 3889-3889	4-4
53	SU-F-R-11: Designing Quality and Safety Informatics Through Implementation of a CT Radiation Dose Monitoring Program. <i>Medical Physics</i> , 2016 , 43, 3375-3375	4-4
52	TU-D-207A-02: Quantitative Assessment of CT Systems with Iterative Image Reconstruction Algorithms. <i>Medical Physics</i> , 2016 , 43, 3747-3748	4-4
51	TU-H-207A-09: An Automated Technique for Estimating Patient-Specific Regional Imparted Energy and Dose From TCM CT Exams Across 13 Protocols. <i>Medical Physics</i> , 2016 , 43, 3773-3773	4-4
50	SU-FF-I-109: Quantitative Breast Tomosynthesis: Development of An Estimation Performance Metric and Optimization Framework. <i>Medical Physics</i> , 2009 , 36, 2459-2460	4-4
49	SU-GG-I-57: Dose and Image Quality Evaluation for Partial and Full-Angle Kilovoltage Cone-Beam CT Protocols. <i>Medical Physics</i> , 2010 , 37, 3114-3114	4-4
48	SU-GG-I-14: A Method to Estimate Cone-Beam CT Dose Index and Cone-Beam Dose Length Product. <i>Medical Physics</i> , 2010 , 37, 3104-3104	4-4
47	MO-B-201C-01: Color Monitors for Medical Workstations. <i>Medical Physics</i> , 2010 , 37, 3337-3337	4-4
46	WE-C-110-08: A Novel Phantom for CT Performance Assessment: Towards a Task-Based Measure of Image Quality. <i>Medical Physics</i> , 2011 , 38, 3810-3810	4-4
45	TU-A-110-01: Resolution in Digital Radiography. <i>Medical Physics</i> , 2011 , 38, 3744-3744	4-4
44	SU-D-301-06: Impact of Non-Stationarity in Breast Tomosynthesis on Task-Based Imaging Performance. <i>Medical Physics</i> , 2011 , 38, 3389-3389	4-4
43	WE-G-110-03: Directional MTF Measurement of Tomosynthesis Images Using a Cone-Based Technique. <i>Medical Physics</i> , 2011 , 38, 3833-3833	4-4
42	SU-C-220-01: Comparative MTF and DQE Performance of Wireless Digital Image Receptors. <i>Medical Physics</i> , 2011 , 38, 3379-3379	4-4
41	Application of a Dynamic 4D Anthropomorphic Breast Phantom in Contrast-Based Imaging System Optimization: Dual-Energy or Temporal Subtraction?. <i>Lecture Notes in Computer Science</i> , 2012 , 658-665	0-9
40	TH-E-217BCD-02: Defining Performance-Based, Size-Specific, Optimized Protocols for Pediatric CT. <i>Medical Physics</i> , 2012 , 39, 4014-4015	4-4
39	TU-F-217A-01: Informatics 2: Dose Monitoring. <i>Medical Physics</i> , 2012 , 39, 3917	4-4
38	SU-C-217BCD-03: CT QA Revisited in Context of Tube Current Modulation and Iterative Reconstruction. <i>Medical Physics</i> , 2012 , 39, 3606-3606	4-4
37	SU-C-217A-05: The Design of An Institution Wide Comprehensive Technique Chart for Size- Specific Radiography from Pediatrics to Adults. <i>Medical Physics</i> , 2012 , 39, 3608-3608	4-4

- 36 TH-E-217BCD-04: MA Modulation and Iterative Reconstruction: Evaluation Using a New CT Phantom. *Medical Physics*, **2012**, 39, 4015-4015 4-4
- 35 SU-C-217A-02: An Effective Dose Monitoring Program for Computed Radiography. *Medical Physics*, **2012**, 39, 3607-3607 4-4
- 34 SU-D-217A-03: Nuclear Medicine Uniformity Assessment Using 2D Noise Power Spectrum. *Medical Physics*, **2012**, 39, 3621 4-4
- 33 SU-E-I-47: Comparison of Risks for Two Medical Imaging Procedures. *Medical Physics*, **2012**, 39, 3635 4-4
- 32 SU-E-I-77: X-Ray Coherent Scatter Diffraction Pattern Modeling in GEANT4. *Medical Physics*, **2012**, 39, 3642-3643 4-4
- 31 TU-C-103-10: An Automated Technique to Measure CT Noise in Patient Images. *Medical Physics*, **2013**, 40, 438-438 4-4
- 30 MO-D-141-10: Development of 4D XCAT Pediatric Reference Phantoms for Multi-Modality Imaging Research and Optimization. *Medical Physics*, **2013**, 40, 401-401 4-4
- 29 TU-C-103-07: Prospective Estimation of Diagnostic Performance and Radiation Dose for Individual CT Scans. *Medical Physics*, **2013**, 40, 438-438 4-4
- 28 MO-A-141-01: Memorial to Fearghus O' tFoghludha - Memorial Lecture. *Medical Physics*, **2013**, 40, 390-390 4-4
- 27 Impact of Colorized Display of Mammograms on Lesion Detection. *Journal of Breast Imaging*, **2020**, 2, 22-28 1
- 26 Improved Dose Estimates for Fluoroscopically Guided Lumbar Epidural Injections. *Pain Medicine*, **2019**, 20, 971-978 2.8
- 25 Structured mentorship program for the ABR international medical graduates alternate pathway for medical physicists in diagnostic imaging. *Journal of Applied Clinical Medical Physics*, **2021**, 22, 351-353 2.3
- 24 Image Quality and Its Clinical Relevance **2018**, 197-212
- 23 Value and Limitations of Observer Models **2018**, 300-304
- 22 Perceptual Factors in Reading Medical Images **2018**, 95-106
- 21 Cognitive Factors in Reading Medical Images: Thinking Processes in Image Interpretation **2018**, 107-120
- 20 Memory Effects and Experimental Design **2018**, 263-275
- 19 CAD: An Image Perception Perspective **2018**, 359-373

- 18 Evaluation of CAD and Radiomic Tools **2018**, 389-406
- 17 Perception Issues in Pathology **2018**, 495-505
- 16 Perception in Context **2018**, 82-92
- 15 Display Optimization from a Physics Perspective **2018**, 440-451
- 14 Multireader ROC Analysis **2018**, 245-262
- 13 Display Optimization from a Perception Perspective **2018**, 452-469
- 12 Optimization of 2D and 3D Radiographic Imaging Systems **2018**, 417-439
- 11 Implementation of Observer Models **2018**, 289-299
- 10 Medical Image Perception **2018**, 1-8
- 9 A Short History of Image Perception in Medical Radiology **2018**, 11-22
- 8 Spatial Vision Research without Noise **2018**, 23-27
- 7 Lessons from Dinners with the Giants of Modern Image Science* **2018**, 76-81
- 6 Acquiring Expertise in Radiologic Image Interpretation **2018**, 167-187
- 5 Designing Perception Experiments **2018**, 215-226
- 4 Observer Models as a Surrogate to Perception Experiments **2018**, 276-288
- 3 Common Designs of CAD Studies **2018**, 374-388
- 2 Medical Image Perception from a Clinical Perspective **2018**, 506-512
- 1 Future of Medical Image Perception **2018**, 513-516

