Ehsan Samei

List of Publications by Year in Descending Order

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	Corrections to "iPhantom: A Framework for Automated Creation of Individualized Computational Phantoms and its Application to CT Organ Dosimetry".. *IEEE Journal of Biomedical and Health Informatics*, **2022**, 26, 478	7.2	
538	Quantitative analysis of changes in lung density by dynamic chest radiography in association with CT values: a virtual imaging study and initial clinical corroboration.. *Radiological Physics and Technology*, **2022**, 15, 45	1.7	
537	Classification of Multiple Diseases on Body CT Scans Using Weakly Supervised Deep Learning.. *Radiology: Artificial Intelligence*, **2022**, 4, e210026	8.7	1
536	Reduced-Dose Deep Learning Reconstruction for Abdominal CT of Liver Metastases.. *Radiology*, **2022**, 211838	20.5	1
535	Medical physics 3.0: A renewed model for practicing medical physics in clinical imaging.. *Physica Medica*, **2022**, 94, 53-57	2.7	0
534	Anatomically- and physiologically-informed computational model of hepatic contrast perfusion for virtual imaging trials.. *Medical Physics*, **2022**,	4.4	1
533	Science and practice of imaging physics through 50 years of SPIE Medical Imaging conferences.. *Journal of Medical Imaging*, **2022**, 9, 012205	2.6	0
532	Patient Communication for Medical Physicists. *Journal of the American College of Radiology*, **2021**, 18, 1601-1604	3.5	1
531	Deep learning classification of COVID-19 in chest radiographs: performance and influence of supplemental training. *Journal of Medical Imaging*, **2021**, 8, 064501	2.6	1
530	Development and validation of an automated methodology to assess perceptual noise texture in liver CT. *Journal of Medical Imaging*, **2021**, 8, 052113	2.6	1
529	U.S. Diagnostic Reference Levels and Achievable Doses for 10 Pediatric CT Examinations. *Radiology*, **2021**, 211241	20.5	2
528	Evaluation of Coronary Plaques and Stents with Conventional and Photon-counting CT: Benefits of High-Resolution Photon-counting CT. *Radiology: Cardiothoracic Imaging*, **2021**, 3, e210102	8.3	2
527	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	
526	Quantification of Minimum Detectable Difference in Radiomics Features Across Lesions and CT Imaging Conditions. *Academic Radiology*, **2021**, 28, 1570-1581	4.3	1
525	Comparison of Low Dose Performance of Photon-Counting and Energy Integrating CT. *Academic Radiology*, **2021**, 28, 1754-1760	4.3	6
524	Patient-Informed Organ Dose Estimation in Clinical CT: Implementation and Effective Dose Assessment in 1048 Clinical Patients. *American Journal of Roentgenology*, **2021**, 216, 824-834	5.4	4
523	Variability in image quality and radiation dose within and across 97 medical facilities. *Journal of Medical Imaging*, **2021**, 8, 052105	2.6	2

522	Effect of deep learning image reconstruction in the prediction of resectability of pancreatic cancer: Diagnostic performance and reader confidence. *European Journal of Radiology*, **2021**, 141, 109825	4.7	3
521	Variability of quantitative measurements of metastatic liver lesions: a multi-radiation-dose-level and multi-reader comparison. *Abdominal Radiology*, **2021**, 46, 226-236	3	1
520	Patient-based Performance Assessment for Pediatric Abdominal CT: An Automated Monitoring System Based on Lesion Detectability and Radiation Dose. *Academic Radiology*, **2021**, 28, 217-224	4.3	4
519	Minimum perceivable size difference: how well can radiologists visually detect a change in lung nodule size from CT images?. *European Radiology*, **2021**, 31, 1947-1955	8	2
518	A Clinically Driven Task-Based Comparison of Photon Counting and Conventional Energy Integrating CT for Soft Tissue, Vascular, and High-Resolution Tasks. *IEEE Transactions on Radiation and Plasma Medical Sciences*, **2021**, 5, 588-595	4.2	1
517	Virtual Imaging Trials for Coronavirus Disease (COVID-19). *American Journal of Roentgenology*, **2021**, 216, 362-368	5.4	5
516	Task-dependent estimability index to assess the quality of cardiac computed tomography angiography for quantifying coronary stenosis. *Journal of Medical Imaging*, **2021**, 8, 013501	2.6	0
515	Clinical concordance with Image Gently guidelines for pediatric computed tomography: a study across 663,417 CT scans at 53 clinical facilities. *Pediatric Radiology*, **2021**, 51, 800-810	2.8	1
514	Review of Technical Advancements and Clinical Applications of Photon-counting Computed Tomography in Imaging of the Thorax. *Journal of Thoracic Imaging*, **2021**, 36, 84-94	5.6	1
513	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	
512	Comparison of 12 surrogates to characterize CT radiation risk across a clinical population. *European Radiology*, **2021**, 31, 7022-7030	8	4
511	Cell and extracellular matrix growth theory and its implications for tumorigenesis. *BioSystems*, **2021**, 201, 104331	1.9	2
510	Assessment of pleural invasion and adhesion of lung tumors with dynamic chest radiography: A virtual clinical imaging study. *Medical Physics*, **2021**, 48, 1616-1623	4.4	1
509	iPhantom: A Framework for Automated Creation of Individualized Computational Phantoms and Its Application to CT Organ Dosimetry. *IEEE Journal of Biomedical and Health Informatics*, **2021**, 25, 3061-3072	7.2	3
508	CT Radiomic Features of Superior Mesenteric Artery Involvement in Pancreatic Ductal Adenocarcinoma: A Pilot Study. *Radiology*, **2021**, 301, 610-622	20.5	1
507	Design and implementation of a practical quality control program for dual-energy CT. *Journal of Applied Clinical Medical Physics*, **2021**, 22, 249-260	2.3	1
506	A scanner-specific framework for simulating CT images with tube current modulation. *Physics in Medicine and Biology*, **2021**, 66,	3.8	1
505	Clinical Fluoroscopy Physics **2020**, 145-167		

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

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

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

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

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

499 Clinical Ultrasonography Physics **2020**, 261-286 1

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

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

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

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

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

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

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

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

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

489 Clinical Mammography Physics **2020**, 89-106 1

488 Clinical Mammography Physics **2020**, 107-121

487 Clinical Fluoroscopy Physics **2020**, 129-143

486	Noise and spatial resolution properties of a commercially available deep learning-based CT reconstruction algorithm. *Medical Physics*, **2020**, 47, 3961-3971	4.4	35
485	Is regulatory compliance enough to ensure excellence in medicine?. *Radiologia Medica*, **2020**, 125, 904-905	6.5	9
484	A database of 40 patient-based computational models for benchmarking organ dose estimates in CT. *Medical Physics*, **2020**, 47, 6562-6566	4.4	2
483	Technical Note: Validation of TG 233 phantom methodology to characterize noise and dose in patient CT data. *Medical Physics*, **2020**, 47, 1633-1639	4.4	7
482	Virtual Clinical Trials: Why and What (Special Section Guest Editorial). *Journal of Medical Imaging*, **2020**, 7, 042801	2.6	3
481	Virtual clinical trials in medical imaging: a review. *Journal of Medical Imaging*, **2020**, 7, 042805	2.6	27
480	Hallway Conversations in Physics. *American Journal of Roentgenology*, **2020**, 215, W50-W52	5.4	0
479	Modeling Patient-Informed Liver Contrast Perfusion in Contrast-enhanced Computed Tomography. *Journal of Computer Assisted Tomography*, **2020**, 44, 882-886	2.2	0
478	CT Performance Optimization **2020**, 143-164		
477	CT-Based Quantification **2020**, 289-304		
476	CT Practice Monitoring **2020**, 199-220		
475	Virtual clinical trial for quantifying the effects of beam collimation and pitch on image quality in computed tomography. *Journal of Medical Imaging*, **2020**, 7, 042806	2.6	2
474	A comparison of COVID-19 and imaging radiation risk in clinical patient populations. *Journal of Radiological Protection*, **2020**,	1.2	4
473	Impact of Colorized Display of Mammograms on Lesion Detection. *Journal of Breast Imaging*, **2020**, 2, 22-28	1	
472	Correlation of Algorithmic and Visual Assessment of Lesion Detection in Clinical Images. *Academic Radiology*, **2020**, 27, 847-855	4.3	6
471	Automated quality control in nuclear medicine using the structured noise index. *Journal of Applied Clinical Medical Physics*, **2020**, 21, 80-86	2.3	1
470	A real-time Monte Carlo tool for individualized dose estimations in clinical CT. *Physics in Medicine and Biology*, **2019**, 64, 215020	3.8	8
469	Organ doses from CT localizer radiographs: Development, validation, and application of a Monte Carlo estimation technique. *Medical Physics*, **2019**, 46, 5262-5272	4.4	6

468	Development of a scanner-specific simulation framework for photon-counting computed tomography. *Biomedical Physics and Engineering Express*, **2019**, 5,	1.5	3
467	Reproducibility of CT Radiomic Features within the Same Patient: Influence of Radiation Dose and CT Reconstruction Settings. *Radiology*, **2019**, 293, 583-591	20.5	90
466	Evaluation of Simulated Lesions as Surrogates to Clinical Lesions for Thoracic CT Volumetry: The Results of an International Challenge. *Academic Radiology*, **2019**, 26, e161-e173	4.3	4
465	Validation of lesion simulations in clinical CT data for anonymized chest and abdominal CT databases. *Medical Physics*, **2019**, 46, 1931-1937	4.4	2
464	High-Pitch Wide-Coverage Fast-Kilovoltage-Switching Dual-Energy CT: Impact of Pitch on Noise, Spatial Resolution, and Iodine Quantification in a Phantom Study. *American Journal of Roentgenology*, **2019**, 212, W64-W72	5.4	6
463	Can Realistic Liver Tissue Surrogates Accurately Quantify the Impact of Reduced-kV Imaging on Attenuation and Contrast of Parenchyma and Lesions?. *Academic Radiology*, **2019**, 26, 640-650	4.3	0
462	Expanding the Concept of Diagnostic Reference Levels to Noise and Dose Reference Levels in CT. *American Journal of Roentgenology*, **2019**, 213, 889-894	5.4	20
461	Imaging Science **2019**, 89-141		
460	Imaging Operation and Infrastructure **2019**, 181-216		
459	Projection X-ray Imaging **2019**, 217-242		0
458	Volumetric X-ray Imaging **2019**, 243-269		
457	Virtual Unenhanced Images at Dual-Energy CT: Influence on Renal Lesion Characterization. *Radiology*, **2019**, 291, 381-390	20.5	22
456	Performance evaluation of computed tomography systems: Summary of AAPM Task Group 233. *Medical Physics*, **2019**, 46, e735-e756	4.4	66
455	A Simulation Paradigm for Evaluation of Subtle Liver Lesions at Pediatric CT: Performance and Confidence. *Radiology Imaging Cancer*, **2019**, 1, e190027	1.4	
454	Validation of algorithmic CT image quality metrics with preferences of radiologists. *Medical Physics*, **2019**, 46, 4837-4846	4.4	10
453	Why physics in medicine?. *Physica Medica*, **2019**, 64, 319-322	2.7	3
452	Systematic analysis of bias and variability of morphologic features for lung lesions in computed tomography. *Journal of Medical Imaging*, **2019**, 6, 013504	2.6	5
451	Three-dimensionally-printed anthropomorphic physical phantom for mammography and digital breast tomosynthesis with custom materials, lesions, and uniform quality control region. *Journal of Medical Imaging*, **2019**, 6, 021604	2.6	8

450	Design and fabrication of heterogeneous lung nodule phantoms for assessing the accuracy and variability of measured texture radiomics features in CT. *Journal of Medical Imaging*, **2019**, 6, 021606	2.6	7
449	Systematic analysis of bias and variability of texture measurements in computed tomography. *Journal of Medical Imaging*, **2019**, 6, 033503	2.6	3
448	Multi-organ segmentation in clinical-computed tomography for patient-specific image quality and dose metrology **2019**,		5
447	Deep learning of 3D CT images for organ segmentation using 2D multi-channel SegNet model **2019** ,		1
446	Utilizing deformable image registration to create new living human heart models for imaging simulation **2019**,		1
445	Impact of energy threshold on material quantification of contrast agents in photon-counting CT **2019**,		1
444	Modeling dynamic, nutrient-access-based lesion progression using stochastic processes **2019**,		1
443	Performance Evaluation of Computed Tomography Systems - The Report of AAPM Task Group 233 **2019**,		9
442	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
441	Using inkjet 3D printing to create contrast-enhanced textured physical phantoms for CT **2019**,		2
440	Special Section Guest Editorial: Special Section on 3D Printing in Medical Imaging. *Journal of Medical Imaging*, **2019**, 6, 1	2.6	5
439	Automated Early Identification of an Excessive Air-in-Oil X-ray Tube Artifact That Mimics Acute Cerebral Infarct. *Journal of Computer Assisted Tomography*, **2019**, 43, 18-21	2.2	1
438	Medical Physics 3.0: Ensuring Quality and Safety in Medical Imaging. *Health Physics*, **2019**, 116, 247-255	2.3	2
437	Improved Dose Estimates for Fluoroscopically Guided Lumbar Epidural Injections. *Pain Medicine*, **2019**, 20, 971-978	2.8	
436	The Need for Practical and Accurate Measures of Value for Radiology. *Journal of the American College of Radiology*, **2019**, 16, 810-813	3.5	3
435	Detection of Colorectal Hepatic Metastases Is Superior at Standard Radiation Dose CT versus Reduced Dose CT. *Radiology*, **2019**, 290, 400-409	20.5	38
434	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?. *American Journal of Roentgenology*, **2019**, 212, 554-561	5.4	23
433	DukeSim: A Realistic, Rapid, and Scanner-Specific Simulation Framework in Computed Tomography. *IEEE Transactions on Medical Imaging*, **2019**, 38, 1457-1465	11.7	23

432	Modeling "Textured" Bones in Virtual Human Phantoms. *IEEE Transactions on Radiation and Plasma Medical Sciences*, **2019**, 3, 47-53	4.2	12
431	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. *European Radiology*, **2019**, 29, 2069-2078	8	17
430	Incorporation of the Living Heart Model into the 4D XCAT Phantom for Cardiac Imaging Research. *IEEE Transactions on Radiation and Plasma Medical Sciences*, **2019**, 3, 54-60	4.2	7
429	Modeling Lung Architecture in the XCAT Series of Phantoms: Physiologically Based Airways, Arteries and Veins. *IEEE Transactions on Medical Imaging*, **2018**, 37, 693-702	11.7	23
428	Inter-laboratory comparison of channelized hotelling observer computation. *Medical Physics*, **2018**, 45, 3019-3030	4.4	9
427	A Third-Generation Adaptive Statistical Iterative Reconstruction Technique: Phantom Study of Image Noise, Spatial Resolution, Lesion Detectability, and Dose Reduction Potential. *American Journal of Roentgenology*, **2018**, 210, 1301-1308	5.4	41
426	Clinically Acceptable Optimized Dose Reduction in Computed Tomographic Imaging of Necrotizing Pancreatitis Using a Noise Addition Software Tool. *Journal of Computer Assisted Tomography*, **2018**, 42, 197-203	2.2	1
425	Application of the 4-D XCAT Phantoms in Biomedical Imaging and Beyond. *IEEE Transactions on Medical Imaging*, **2018**, 37, 680-692	11.7	29
424	Automated quality control assessment of clinical chest images. *Medical Physics*, **2018**, 45, 4377-4391	4.4	4
423	Redefining and reinvigorating the role of physics in clinical medicine: A Report from the AAPM Medical Physics 3.0 Ad Hoc Committee. *Medical Physics*, **2018**, 45, e783	4.4	14
422	Estimating detectability index : development and validation of an automated methodology. *Journal of Medical Imaging*, **2018**, 5, 031403	2.6	13
421	Local complexity metrics to quantify the effect of anatomical noise on detectability of lung nodules in chest CT imaging. *Journal of Medical Imaging*, **2018**, 5, 045502	2.6	4
420	3D printed anthropomorphic physical phantom for mammography and DBT with high contrast custom materials, lesions and uniform chest wall region **2018**,		2
419	Can a 3D task transfer function accurately represent the signal transfer properties of low-contrast lesions in non-linear CT systems? **2018**,		2
418	How reliable are texture measurements? **2018**,		4
417	Virtual clinical trial in action: textured XCAT phantoms and scanner-specific CT simulator to characterize noise across CT reconstruction algorithms **2018**,		2
416	From patient-informed to patient-specific organ dose estimation in clinical computed tomography **2018**,		5
415	A rapid GPU-based Monte-Carlo simulation tool for individualized dose estimations in CT **2018**,		3

414	Estimability index for volume quantification of homogeneous spherical lesions in computed tomography. *Journal of Medical Imaging*, **2018**, 5, 031404	2.6	2
413	Quantification of uncertainty in the assessment of coronary plaque in CCTA through a dynamic cardiac phantom and 3D-printed plaque model. *Journal of Medical Imaging*, **2018**, 5, 013501	2.6	3
412	Bias and variability in morphology features of lung lesions across CT imaging conditions **2018**,		1
411	Development of a fast, voxel-based, and scanner-specific CT simulator for image-quality-based virtual clinical trials **2018**,		2
410	Interchangeability between real and three-dimensional simulated lung tumors in computed tomography: an interalgorithm volumetry study. *Journal of Medical Imaging*, **2018**, 5, 035504	2.6	2
409	Report of AAPM Task Group 162: Software for planar image quality metrology. *Medical Physics*, **2018**, 45, e32-e39	4.4	6
408	The First Moments of Medical Image Perception **2018**, 188-196		1
407	Image Quality and Its Clinical Relevance **2018**, 197-212		
406	Value and Limitations of Observer Models **2018**, 300-304		
405	Breast Screen Reader Assessment Strategy (BREAST): A Research Infrastructure with a Translational Objective **2018**, 343-356		2
404	Signal Detection in Radiology **2018**, 49-75		1
403	Perceptual Factors in Reading Medical Images **2018**, 95-106		
402	Cognitive Factors in Reading Medical Images: Thinking Processes in Image Interpretation **2018**, 107-120		
401	Satisfaction of Search in Radiology **2018**, 121-166		1
400	Memory Effects and Experimental Design **2018**, 263-275		
399	Perception of Volumetric Data **2018**, 307-327		1
398	Performance Assessment Using Standardized Data Sets: The PERFORMS Scheme in Breast Screening and Other Domains **2018**, 328-342		1
397	CAD: An Image Perception Perspective **2018**, 359-373		

396 Evaluation of CAD and Radiomic Tools **2018**, 389-406

395 Quantitative Imaging: Images to Numbers **2018**, 407-414 1

394 Ergonomics 2.0: Fatigue in Medical Imaging **2018**, 483-494 1

393 Perception Issues in Pathology **2018**, 495-505

392 Perception in Context **2018**, 82-92

391 Display Optimization from a Physics Perspective **2018**, 440-451

390 Multireader ROC Analysis **2018**, 245-262

389 Display Optimization from a Perception Perspective **2018**, 452-469

388 Receiver Operating Characteristic Analysis: Basic Concepts and Practical Applications **2018**, 227-244 1

387 Optimization of 2D and 3D Radiographic Imaging Systems **2018**, 417-439

386 Implementation of Observer Models **2018**, 289-299

385 Medical Image Perception **2018**, 1-8

384 A Short History of Image Perception in Medical Radiology **2018**, 11-22

383 Spatial Vision Research without Noise **2018**, 23-27

382 Signal Detection Theory: A Brief History **2018**, 28-48 3

381 Lessons from Dinners with the Giants of Modern Image Science* **2018**, 76-81

380 Acquiring Expertise in Radiologic Image Interpretation **2018**, 167-187

379 Designing Perception Experiments **2018**, 215-226

378	Observer Models as a Surrogate to Perception Experiments **2018**, 276-288		
377	Common Designs of CAD Studies **2018**, 374-388		
376	Perception and Training **2018**, 470-482		1
375	Medical Image Perception from a Clinical Perspective **2018**, 506-512		
374	Future of Medical Image Perception **2018**, 513-516		
373	Dependency of prescribed CT dose on table height, patient size, and localizer acquisition for one clinical MDCT. *Physica Medica*, **2018**, 55, 56-60	2.7	3
372	3D task-transfer function representation of the signal transfer properties of low-contrast lesions in FBP- and iterative-reconstructed CT. *Medical Physics*, **2018**, 45, 4977-4985	4.4	10
371	Medical physics 3.0 versus 1.0: A case study in digital radiography quality control. *Journal of Applied Clinical Medical Physics*, **2018**, 19, 694-707	2.3	1
370	Why Physics in Medicine?. *Journal of the American College of Radiology*, **2018**, 15, 1008-1012	3.5	2
369	Medical imaging dose optimisation from ground up: expert opinion of an international summit. *Journal of Radiological Protection*, **2018**, 38, 967-989	1.2	24
368	The Effect of Contrast Material on Radiation Dose at CT: Part I. Incorporation of Contrast Material Dynamics in Anthropomorphic Phantoms. *Radiology*, **2017**, 283, 739-748	20.5	27
367	Size-specific optimization of CT protocols based on minimum detectability. *Medical Physics*, **2017**, 44, 1301-1311	4.4	14
366	Image noise and dose performance across a clinical population: Patient size adaptation as a metric of CT performance. *Medical Physics*, **2017**, 44, 2141-2147	4.4	16
365	Accuracy and variability of texture-based radiomics features of lung lesions across CT imaging conditions **2017**,		5
364	Third generation anthropomorphic physical phantom for mammography and DBT: incorporating voxelized 3D printing and uniform chest wall QC region **2017**,		6
363	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. *Radiology*,	20.5	60
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. *American Journal of Roentgenology*, **2017**, 208, 1285-1296	5.4	11
361	Automated, patient-specific estimation of regional imparted energy and dose from tube current modulated computed tomography exams across 13 protocols. *Journal of Medical Imaging*, **2017**, 4, 013503	2.6	4

360	Airways, vasculature, and interstitial tissue: anatomically informed computational modeling of human lungs for virtual clinical trials **2017**,		3
359	Accuracy assessment and characterization of x-ray coded aperture coherent scatter spectral imaging for breast cancer classification. *Journal of Medical Imaging*, **2017**, 4, 013505	2.6	2
358	The Effect of Contrast Material on Radiation Dose at CT: Part II. A Systematic Evaluation across 58 Patient Models. *Radiology*, **2017**, 283, 749-757	20.5	43
357	CT breast dose reduction with the use of breast positioning and organ-based tube current modulation. *Medical Physics*, **2017**, 44, 665-678	4.4	14
356	Dual-Source Single-Energy Multidetector CT Used to Obtain Multiple Radiation Exposure Levels within the Same Patient: Phantom Development and Clinical Validation. *Radiology*, **2017**, 283, 526-537	20.5	7
355	Breast dose reduction with organ-based, wide-angle tube current modulated CT. *Journal of Medical Imaging*, **2017**, 4, 031208	2.6	4
354	Radiation risk index for pediatric CT: a patient-derived metric. *Pediatric Radiology*, **2017**, 47, 1737-1744	2.8	18
353	A method for characterizing and matching CT image quality across CT scanners from different manufacturers. *Medical Physics*, **2017**, 44, 5705-5717	4.4	13
352	Optimizing window settings for improved presentation of virtual monoenergetic images in dual-energy computed tomography. *Medical Physics*, **2017**, 44, 5686-5696	4.4	7
351	Techniques for virtual lung nodule insertion: volumetric and morphometric comparison of projection-based and image-based methods for quantitative CT. *Physics in Medicine and Biology*, **2017**, 62, 7280-7299	3.8	10
350	Awareness of medical radiation exposure among patients: A patient survey as a first step for effective communication of ionizing radiation risks. *Physica Medica*, **2017**, 43, 57-62	2.7	19
349	Patient-specific quantification of image quality: An automated technique for measuring the distribution of organ Hounsfield units in clinical chest CT images. *Medical Physics*, **2017**, 44, 4736-4746	4.4	25
348	Hallway Conversations in Physics. *American Journal of Roentgenology*, **2017**, 208, W24-W27	5.4	3
347	Effect of Iodine-based Contrast Material on Radiation Dose at CT. *Radiology*, **2017**, 285, 1053-1054	20.5	
346	Patient dose monitoring and the use of diagnostic reference levels for the optimization of protection in medical imaging: current status and challenges worldwide. *Journal of Medical Imaging*, **2017**, 4, 031214	2.6	15
345	Special Section Guest Editorial: Visions of Safety: Perspectives on Radiation Exposure and Risk in Medical Imaging. *Journal of Medical Imaging*, **2017**, 4, 031201	2.6	1
344	Size-based quality-informed framework for quantitative optimization of pediatric CT. *Journal of Medical Imaging*, **2017**, 4, 031209	2.6	5
343	Inter-algorithm lesion volumetry comparison of real and 3D simulated lung lesions in CT **2017**,		2

342	Development of local complexity metrics to quantify the effect of anatomical noise on detectability of lung nodules in chest CT imaging **2017**,		1
341	Organ dose variability and trends in tomosynthesis and radiography. *Journal of Medical Imaging*, **2017**, 4, 031207	2.6	2
340	Effects of automatic tube potential selection on radiation dose index, image quality, and lesion detectability in pediatric abdominopelvic CT and CTA: a phantom study. *European Radiology*, **2016**, 26, 157-66	8	10
339	Design, fabrication, and implementation of voxel-based 3D printed textured phantoms for task-based image quality assessment in CT **2016**,		2
338	Organ dose conversion coefficients for tube current modulated CT protocols for an adult population **2016**,		1
337	Development and comparison of projection and image space 3D nodule insertion techniques **2016**,		2
336	Estimation of breast dose saving potential using a breast positioning technique for organ-based tube current modulated CT **2016**,		1
335	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. *American Journal of Roentgenology*, **2016**, 206, 1222-32	5.4	36
334	Synthesized interstitial lung texture for use in anthropomorphic computational phantoms **2016**,		2
333	Quantitative Features of Liver Lesions, Lung Nodules, and Renal Stones at Multi-Detector Row CT Examinations: Dependency on Radiation Dose and Reconstruction Algorithm. *Radiology*, **2016**, 279, 185-94	20.5	78
332	Coded aperture coherent scatter imaging for breast cancer detection: a Monte Carlo evaluation **2016**,		2
331	Design and implementation of coded aperture coherent scatter spectral imaging of cancerous and healthy breast tissue samples. *Journal of Medical Imaging*, **2016**, 3, 013505	2.6	8
330	Determination of contrast media administration to achieve a targeted contrast enhancement in computed tomography. *Journal of Medical Imaging*, **2016**, 3, 013501	2.6	4
329	Estimation of Radiation Dose in CT Based on Projection Data. *Journal of Digital Imaging*, **2016**, 29, 615-21	5.3	0
328	Cutting to the Chase: With So Much Physics "Stuff," What Do Radiologists Really Need to Know?. *American Journal of Roentgenology*, **2016**, 206, W9	5.4	6
327	Population of 224 realistic human subject-based computational breast phantoms. *Medical Physics*, **2016**, 43, 23	4.4	23
326	Accurate assessment and prediction of noise in clinical CT images. *Medical Physics*, **2016**, 43, 475	4.4	17
325	Impact of breast structure on lesion detection in breast tomosynthesis, a simulation study. *Journal of Medical Imaging*, **2016**, 3, 035504	2.6	6

324	Correlation between human detection accuracy and observer model-based image quality metrics in computed tomography. *Journal of Medical Imaging*, **2016**, 3, 035506	2.6	20
323	SU-G-206-13: Validating Dose Split: A Method to Image the Same Patient at Multiple Doses with a Single CT Acquisition. *Medical Physics*, **2016**, 43, 3642-3642	4.4	1
322	TU-FG-209-07: Medical Physics 1.0 Versus Medical Physics 2.0: A Case Study. *Medical Physics*, **2016**, 43, 3762-3762	4.4	1
321	TU-H-207A-05: Automated Early Identification of An Excessive Air-In-Oil X-Ray Tube Artifact That Mimics Acute Cerebral Infarct. *Medical Physics*, **2016**, 43, 3772-3772	4.4	2
320	TH-AB-207A-01: Contrast-Enhanced CT: Correlation of Radiation Dose and Biological Effect. *Medical Physics*, **2016**, 43, 3859-3859	4.4	2
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