Xinming Liu

List of Publications by Year
in descending order

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		393982	360668
65	1,346	19	35
papers	citations	h-index	g-index

65	65	65	1316
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An evaluation of three commercially available metal artifact reduction methods for CT imaging. Physics in Medicine and Biology, 2015, 60, 1047-1067.	1.6	177
2	Image Quality Assessment of Abdominal CT by Use of New Deep Learning Image Reconstruction: Initial Experience. American Journal of Roentgenology, 2020, 215, 50-57.	1.0	136
3	A dual-energy subtraction technique for microcalcification imaging in digital mammography-A signal-to-noise analysis. Medical Physics, 2002, 29, 1739-1751.	1.6	86
4	Comparison of an amorphous silicon/cesium iodide flat-panel digital chest radiography system with screen/film and computed radiography systems - A contrast-detail phantom study. Medical Physics, 2001, 28, 2328-2335.	1.6	83
5	Detection of Colorectal Hepatic Metastases Is Superior at Standard Radiation Dose CT versus Reduced Dose CT. Radiology, 2019, 290, 400-409.	3.6	69
6	Visibility of microcalcification in cone beam breast CT: Effects of x-ray tube voltage and radiation dose. Medical Physics, 2007, 34, 2995-3004.	1.6	68
7	A postâ€reconstruction method to correct cupping artifacts in cone beam breast computed tomography. Medical Physics, 2007, 34, 3109-3118.	1.6	57
8	Reduced-Dose Deep Learning Reconstruction for Abdominal CT of Liver Metastases. Radiology, 2022, 303, 90-98.	3.6	45
9	Computed Tomography Image Quality Evaluation of a New Iterative Reconstruction Algorithm in the Abdomen (Adaptive Statistical Iterative Reconstructionâ€“V) a Comparison With Model-Based Iterative Reconstruction, Adaptive Statistical Iterative Reconstruction, and Filtered Back Projection Reconstructions. Journal of Computer Assisted Tomography, 2018, 42, 184-190.	0.5	44
10	Microcalcification detectability for four mammographic detectors: Flat-panel, CCD, CR, and screen/film. Medical Physics, 2002, 29, 2052-2061.	1.6	43
11	Feasibility of volume-of-interest (VOI) scanning technique in cone beam breast CT-a preliminary study. Medical Physics, 2008, 35, 3482-3490.	1.6	40
12	Spatial resolution properties in cone beam CT: A simulation study. Medical Physics, 2008, 35, 724-734.	1.6	37
13	Approaches to reducing photon dose calculation errors near metal implants. Medical Physics, 2016, 43, 5117-5130.	1.6	37
14	aâˆ'Si:H/CsI(Tl) flat-panel versus computed radiography for chest imaging applications: image quality metrics measurement. Medical Physics, 2003, 31, 98-110.	1.6	33
15	â€œHow toâ€•incorporate dual-energy imaging into a high volume abdominal imaging practice. Abdominal Radiology, 2017, 42, 688-701.	1.0	32
16	Reduction in x-ray scatter and radiation dose for volume-of-interest (VOI) cone-beam breast CTâ€"a phantom study. Physics in Medicine and Biology, 2009, 54, 6691-6709.	1.6	30
17	Dual resolution cone beam breast CT: A feasibility study. Medical Physics, 2009, 36, 4007-4014.	1.6	28
18	Performance evaluation of iterative reconstruction algorithms for achieving CT radiation dose reduction â€" a phantom study. Journal of Applied Clinical Medical Physics, 2016, 17, 511-531.	0.8	25

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19	An accurate scatter measurement and correction technique for cone beam breast CT imaging using scanning sampled measurement (SSM)technique. , 2006, 6142, 6142341-6142347.		22
20	High resolution dual detector volumeâ€ofâ€interest cone beam breast CTâ€“â€“Demonstration with a bench top system. Medical Physics, 2011, 38, 6429-6442.	1.6	20
21	Evaluation of Abdominal Computed Tomography Image Quality Using a New Version of Vendor-Specific Model-Based Iterative Reconstruction. Journal of Computer Assisted Tomography, 2017, 41, 67-74.	0.5	20
22	Cone-beam CT breast imaging with a flat panel detector: a simulation study. , 2005, 5745, 943.		19
23	A noise power spectrum study of a new modelâ€based iterative reconstruction system: Veo 3.0. Journal of Applied Clinical Medical Physics, 2016, 17, 428-439.	0.8	19
24	Radiation doses in coneâ€beam breast computed tomography: A Monte Carlo simulation study. Medical Physics, 2011, 38, 589-597.	1.6	18
25	Optimization of MTF and DQE in magnification radiography: a theoretical analysis. , 2000, 3977, 466.		17
26	An alternate line erasure and readout (ALER) method for implementing slot-scan imaging technique with a flat-panel detector-initial experiences. IEEE Transactions on Medical Imaging, 2006, 25, 496-502.	5.4	14
27	Third version of vendor-specific model-based iterativereconstruction (Veo 3.0): evaluation of CT image quality in the abdomen using new noise reduction presets and varied slice optimization. British Journal of Radiology, 2017, 90, 20170188.	1.0	14
28	Cone Beam Breast CT with a Flat Panel Detector- Simulation, Implementation and Demonstration. , 2005, 2005, 4461-4.		12
29	Comparison of scatter rejection and lowâ€contrast performance of scan equalization digital radiography (SEDR), slotâ€scan digital radiography, and fullâ€field digital radiography systems for chest phantom imaging. Medical Physics, 2011, 38, 23-33.	1.6	9
30	Regional improvement of signalâ€toâ€noise and contrastâ€toâ€noise ratios in dualâ€screen CR chest imagingâ€”a phantom study. Medical Physics, 2001, 28, 1080-1092.	1.6	8
31	Scatter rejection and lowâ€contrast performance of a slotâ€scan digital chest radiography system with electronic aftâ€collimation: A chest phantom study. Medical Physics, 2008, 35, 2391-2402.	1.6	8
32	Comparison of a-Si:H/CsI flat-panel digital imaging systems with CR-and CCD-based systems: image quality measurements. , 2001, , .		7
33	Correlation of Algorithmic and Visual Assessment of Lesion Detection in Clinical Images. Academic Radiology, 2020, 27, 847-855.	1.3	7
34	Quantification and homogenization of image noise between two CT scanner models. Journal of Applied Clinical Medical Physics, 2020, 21, 174-178.	0.8	6
35	Quantitation of clinical feedback on image quality differences between two <scp>CT</scp> scanner models. Journal of Applied Clinical Medical Physics, 2017, 18, 163-169.	0.8	5
36	Delayed bolus-tracking trigger at CT correlates with cardiac dysfunction and suboptimal portovenous contrast phase. Abdominal Radiology, 2021, 46, 826-835.	1.0	5

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37	Comparison of two detector systems for cone beam CT small animal imaging: a preliminary study. , 2006, 6142, 6142451.		4
38	Rejection and redistribution of scattered radiation in scan equalization digital radiography (SEDR): Simulation with spot images. Medical Physics, 2007, 34, 2718-2729.	1.6	4
39	Effects of exposure equalization on image signalâ€toâ€noise ratios in digital mammography: A simulation study with an anthropomorphic breast phantom. Medical Physics, 2011, 38, 6489-6501.	1.6	4
40	Estimating patient water equivalent diameter from CT localizer images â€“ A longitudinal and multiâ€institutional study of the stability of calibration parameters. Medical Physics, 2020, 47, 2139-2149.	1.6	4
41	AAPM Medical Physics Practice Guideline 1.b: CT protocol management and review practice guideline. Journal of Applied Clinical Medical Physics, 2021, 22, 4-10.	0.8	4
42	Dual-energy digital mammography for calcification imaging: theory and implementation. , 2004, , .		3
43	Dual-energy digital mammography for calcification imaging: improvement by post-image processing. , 2005, , .		3
44	Comparison of full-scan and half-scan for cone beam breast CT imaging. , 2006, , .		3
45	Feasibility of dual-resolution cone beam breast CT: a simulation study. , 2008, , .		3
46	Simulation of mammograms and tomosynthesis imaging with cone beam breast CT images. , 2008, , .		3
47	Scan equalization digital radiography (SEDR) implemented with an amorphous selenium flat-panel detector: initial experience. Physics in Medicine and Biology, 2009, 54, 6959-6978.	1.6	3
48	Improved Computed Tomography Contrast Injection Rates Through Implantable Chest Power Ports. Journal of Computer Assisted Tomography, 2020, 44, 911-913.	0.5	3
49	Effects of pixel/aperture sizes on image properties in digital mammography. , 2000, , .		1
50	Comparison of a-Si:H CsI flat-panel digital imaging systems with a CCD-based system, CR systems, and conventional screen-film systems: a contrast-detail phantom study. , 2001, , .		1
51	Scan equalization digital radiography (SEDR): implementation with a flat-panel detector. , 2005, 5745, 1112.		1
52	Effects of radiation dose level on calcification visibility in cone beam breast CT: a preliminary study. , 2006, , .		1
53	Detection of simulated microcalcifications in digital mammography: effects of quantum and anatomic noises: preliminary study. , 2010, , .		1
54	Contrast-to-noise and exposure measurements of an aSi:H/CsI(Tl) flat-panel based digital radiography system using a QC chest phantom. , 2003, 5030, 826.		0

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55	Slot scanning versus antiscatter grid in digital mammography: comparison of low-contrast performance using contrast-detail measurement. , 2004, , .		0
56	Scanning equalization digital radiography (SEDR): effects of exposure equalization on image processing. , 2005, , .		0
57	Comparison of the performances between anti-scatter grid and slot scanning technique for digital chest radiography: effect of anatomical background. Proceedings of SPIE, 2008, , .	0.8	0
58	Dose saving and scatter reduction in volume-of-interest (VOI) cone beam CT: work in progress. Proceedings of SPIE, 2008, , .	0.8	0
59	Demonstration of dual resolution cone beam CT technique with an a-Si/a-Se flat panel detector. Proceedings of SPIE, 2010, , .	0.8	0
60	Images registration and superimposition for dual resolution cone beam CT: a preliminary study. , 2010, , .		0
61	Contrast-to-noise ratio improvement in volume-of-interest cone beam breast CT. Proceedings of SPIE, 2012, , .	0.8	0
62	Breast computed tomography. , 0, , 125-143.		0
63	Physical factors affecting the detection of calcifications in digital mammography. , 2003, , 75-78.		0
64	TU-FF-A4-04: Intensity Modulation Patterns for Regional Exposure Control with Multiple Angle Slot Scan Imaging: Simulated Annealing Optimization Technique Approach. Medical Physics, 2006, 33, 2223-2223.	1.6	0
65	MOâ€Eâ€L100Jâ€04: Scatter Rejection and Lowâ€Contrast Performance of a Slotâ€Scan Digital Chest Radiography System with Electronic Aftâ€Collimation: A Phantom Study. Medical Physics, 2007, 34, 2526-2526.	1.6	0