

# Ke Li

## List of Publications by Year in descending order

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Version: 2024-02-01

57  
papers

801  
citations

687363

13  
h-index

552781

26  
g-index

57  
all docs

57  
docs citations

57  
times ranked

953  
citing authors

#	ARTICLE	IF	CITATIONS
1	Statistical model based iterative reconstruction (MBIR) in clinical CT systems: Experimental assessment of noise performance. <i>Medical Physics</i> , 2014, 41, 041906.	3.0	104
2	Diagnosis of Coronavirus Disease 2019 Pneumonia by Using Chest Radiography: Value of Artificial Intelligence. <i>Radiology</i> , 2021, 298, E88-E97.	7.3	102
3	Statistical model based iterative reconstruction (MBIR) in clinical CT systems. Part II. Experimental assessment of spatial resolution performance. <i>Medical Physics</i> , 2014, 41, 071911.	3.0	77
4	Quantification of Liver Fat Content With Unenhanced MDCT: Phantom and Clinical Correlation With MRI Proton Density Fat Fraction. <i>American Journal of Roentgenology</i> , 2018, 211, W151-W157.	2.2	73
5	Prospective Evaluation of Reduced Dose Computed Tomography for the Detection of Low-Contrast Liver Lesions: Direct Comparison with Concurrent Standard Dose Imaging. <i>European Radiology</i> , 2017, 27, 2055-2066.	4.5	38
6	Grating-based phase contrast tomosynthesis imaging: Proof-of-concept experimental studies. <i>Medical Physics</i> , 2013, 41, 011903.	3.0	31
7	Hi-Res scan mode in clinical MDCT systems: Experimental assessment of spatial resolution performance. <i>Medical Physics</i> , 2016, 43, 2399-2409.	3.0	25
8	Fundamental relationship between the noise properties of grating-based differential phase contrast CT and absorption CT: Theoretical framework using a cascaded system model and experimental validation. <i>Medical Physics</i> , 2013, 40, 021908.	3.0	19
9	Spatial resolution characterization of differential phase contrast CT systems via modulation transfer function (MTF) measurements. <i>Physics in Medicine and Biology</i> , 2013, 58, 4119-4135.	3.0	16
10	Reduced anatomical clutter in digital breast tomosynthesis with statistical iterative reconstruction. <i>Medical Physics</i> , 2018, 45, 2009-2022.	3.0	16
11	Quantitative accuracy of CT numbers: Theoretical analyses and experimental studies. <i>Medical Physics</i> , 2018, 45, 4519-4528.	3.0	15
12	Impacts of photon counting CT to maximum intensity projection (MIP) images of cerebral CT angiography: theoretical and experimental studies. <i>Physics in Medicine and Biology</i> , 2019, 64, 185015.	3.0	14
13	Correlation between human observer performance and model observer performance in differential phase contrast CT. <i>Medical Physics</i> , 2013, 40, 111905.	3.0	13
14	Impact of anti-charge sharing on the zero-frequency detective quantum efficiency of CdTe-based photon counting detector system: cascaded systems analysis and experimental validation. <i>Physics in Medicine and Biology</i> , 2018, 63, 095003.	3.0	13
15	Dynamic PET imaging with ultra-low-activity of <sup>18</sup> F-FDG: unleashing the potential of total-body PET. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2021, 48, 4138-4141.	6.4	13
16	Development of an Integrated C-Arm Interventional Imaging System With a Strip Photon Counting Detector and a Flat Panel Detector. <i>IEEE Transactions on Medical Imaging</i> , 2021, 40, 3674-3685.	8.9	13
17	Task-driven optimization of the non-spectral mode of photon counting CT for intracranial hemorrhage assessment. <i>Physics in Medicine and Biology</i> , 2019, 64, 215014.	3.0	12
18	Anatomical background noise power spectrum in differential phase contrast and dark field contrast mammograms. <i>Medical Physics</i> , 2014, 41, 120701.	3.0	11

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19	Ultra-low-dose limited renal CT for volumetric stone surveillance: advantages over standard unenhanced CT. <i>Abdominal Radiology</i> , 2019, 44, 227-233.	2.1	11
20	First clinical experience of 106Åcm, long axial field-of-view (LAFOV) PET/CT: an elegant balance between standard axial (23Åcm) and total-body (194Åcm) systems. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2021, 48, 3755-3759.	6.4	11
21	Studies of signal estimation bias in grating-based x-ray multicontrast imaging. <i>Medical Physics</i> , 2017, 44, 2453-2465.	3.0	10
22	Statistical properties of cerebral CT perfusion imaging systems. Part II. Deconvolution-based systems. <i>Medical Physics</i> , 2019, 46, 4881-4897.	3.0	10
23	Statistical model based iterative reconstruction in clinical CT systems. Part III. Task-based kV/mAs optimization for radiation dose reduction. <i>Medical Physics</i> , 2015, 42, 5209-5221.	3.0	9
24	Low-dose cone-beam CT via raw counts domain low-signal correction schemes: Performance assessment and task-based parameter optimization (Part I: Assessment of spatial resolution and noise) <i>Tj ETQq0 0.0 ngBT /Overlock 10 T</i>	3.0	9
25	Impact of noise reduction schemes on quantitative accuracy of CT numbers. <i>Medical Physics</i> , 2019, 46, 3013-3024.	3.0	9
26	An experimental method to correct low-frequency concentric artifacts in photon counting CT. <i>Physics in Medicine and Biology</i> , 2021, 66, 175011.	3.0	9
27	Influence of radiation dose and reconstruction algorithm in MDCT assessment of airway wall thickness: A phantom study. <i>Medical Physics</i> , 2015, 42, 5919-5927.	3.0	8
28	Time-resolved C-arm cone beam CT angiography (TR-CBCTA) imaging from a single short-scan C-arm cone beam CT acquisition with intra-arterial contrast injection. <i>Physics in Medicine and Biology</i> , 2018, 63, 075001.	3.0	8
29	Quantitative lung perfusion blood volume using dual energy CT-based effective atomic number ( $Z_{\text{eff}}$ ) imaging. <i>Medical Physics</i> , 2021, 48, 6658-6672.	3.0	8
30	High Pitch Helical CT Reconstruction. <i>IEEE Transactions on Medical Imaging</i> , 2021, 40, 3077-3088.	8.9	7
31	Modified ideal observer model (MIOM) for high-contrast and high-spatial resolution CT imaging tasks. <i>Medical Physics</i> , 2017, 44, 4496-4505.	3.0	6
32	Signal and noise characteristics of a CdTe-based photon counting detector: cascaded systems analysis and experimental studies. <i>Proceedings of SPIE</i> , 2017, 10132, .	0.8	6
33	Low-dose cone-beam CT via raw counts domain low-signal correction schemes: Performance assessment and task-based parameter optimization (Part II). Task-based <i>Tj ETQq1 1 0.784314 ngBT /Overlock 10 T</i>	3.0	6
34	Reconstruction of three-dimensional tomographic patient models for radiation dose modulation in CT from two scout views using deep learning. <i>Medical Physics</i> , 2022, 49, 901-916.	3.0	6
35	Can conclusions drawn from phantom-based image noise assessments be generalized to <i>in vivo</i> studies for the nonlinear model-based iterative reconstruction method?. <i>Medical Physics</i> , 2016, 43, 687-695.	3.0	5
36	Noise characteristics of CT perfusion imaging: how does noise propagate from source images to final perfusion maps?. <i>Proceedings of SPIE</i> , 2016, 9783, .	0.8	5

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37	A platform-independent method to reduce CT truncation artifacts using discriminative dictionary representations. Medical Physics, 2017, 44, 121-131.	3.0	5
38	Statistical properties of cerebral CT perfusion imaging systems. Part I. Cerebral blood volume maps generated from nondeconvolution-based systems. Medical Physics, 2019, 46, 4869-4880.	3.0	5
39	A hybrid photon counting and flat panel detector system for periprocedural hemorrhage monitoring in the angio suite. , 2021, , .		5
40	An experimental method to correct drift-induced error in zero-frequency DQE measurement. , 2019, 10948, .		5
41	Impact of bowtie filter and object position on the two-dimensional noise power spectrum of a clinical MDCT system. Medical Physics, 2016, 43, 4495-4506.	3.0	4
42	Fast acquisition with seamless stage translation (FASST) for a trimodal x-ray breast imaging system. Medical Physics, 2020, 47, 4356-4362.	3.0	4
43	Anomalous edge response of cadmium telluride-based photon counting detectors jointly caused by high-flux radiation and inter-pixel communication. Physics in Medicine and Biology, 2021, 66, 085006.	3.0	4
44	Spectrum optimization in photon counting detector based iodine K-edge CT imaging. , 2019, , .		4
45	Is high sensitivity always desirable for a grating-based differential phase contrast imaging system? Medical Physics, 2020, 47, 1215-1228.	3.0	3
46	Accuracy of weighted CTDI in estimating average dose delivered to CTDI phantoms: An experimental study. Medical Physics, 2020, 47, 6484-6499.	3.0	3
47	Human-compatible multi-contrast mammographic prototype system. , 2019, 10948, .		3
48	Overcoming the challenges of inaccurate CT numbers in low dose CT. , 2022, , .		2
49	C-arm cone beam CT perfusion imaging using the SMART-RECON algorithm to improve temporal sampling density and temporal resolution. Proceedings of SPIE, 2016, 9783, .	0.8	1
50	An experimental method to directly measure $DQE(k)$ at $k=0$ for 2D x-ray imaging systems. Physics in Medicine and Biology, 2019, 64, 075013.	3.0	1
51	Model-based inter- and intra-panel inconsistency correction for photon counting detector CT. , 2021, , .		1
52	Leveraging non-contrast head CT to improve the image quality of cerebral CT perfusion maps. Journal of Medical Imaging, 2020, 7, 063504.	1.5	1
53	Phase contrast CT enabled three-material decomposition in spectral CT imaging. , 2020, 11312, .		1
54	Advanced CT techniques for hepatic microwave ablation zone monitoring and follow-up. Abdominal Radiology, 2022, 47, 2658-2668.	2.1	1

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55	Impact of the sensitivity factor on the signal-to-noise ratio in grating-based phase contrast imaging. , 2019, 10948, .		0
56	Analogous Lubberts effect in photon counting detectors. , 2020, 11312, .		0
57	A dagger (â€) photon counting detector system for both 2D and 3D interventional imaging. , 2022, , .		0