

# Lei Xu

## List of Publications by Year in Descending Order

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

71  
papers

897  
citations

16  
h-index

27  
g-index

79  
ext. papers

1,243  
ext. citations

4.7  
avg, IF

4.5  
L-index

#	Paper	IF	Citations
71	Influence of diabetes mellitus on the diagnostic performance of machine learning-based coronary CT angiography-derived fractional flow reserve: a multicenter study.. <i>European Radiology</i> , <b>2022</b> , 1	8	1
70	Assessment of Image Quality of Coronary Computed Tomography Angiography in Obese Patients by Comparing Deep Learning Image Reconstruction With Adaptive Statistical Iterative Reconstruction Veo.. <i>Journal of Computer Assisted Tomography</i> , <b>2022</b> , 46, 34-40	2.2	
69	Impact of Sublingual Nitroglycerin on the Assessment of Computed Tomography-derived Fractional Flow Reserve: An Intraindividual Comparison Study.. <i>Journal of Computer Assisted Tomography</i> , <b>2022</b> , 46, 23-28	2.2	
68	An automated quantification method for the Agatston coronary artery calcium score on coronary computed tomography angiography.. <i>Quantitative Imaging in Medicine and Surgery</i> , <b>2022</b> , 12, 1787-1799	3.6	1
67	Functional CAD-RADS using FFR on therapeutic management and prognosis in patients with coronary artery disease.. <i>European Radiology</i> , <b>2022</b> , 1	8	0
66	Comparison of Different Thoracic Aortic Wall Characteristics for Assessment of Disease Activity in Takayasu Arteritis: A Quantitative Study with 3.0 T Magnetic Resonance Imaging.. <i>Reviews in Cardiovascular Medicine</i> , <b>2022</b> , 23, 92	3.9	0
65	Lesion-Specific Peri-Coronary Fat Attenuation Index Is Associated With Functional Myocardial Ischemia Defined by Abnormal Fractional Flow Reserve. <i>Frontiers in Cardiovascular Medicine</i> , <b>2021</b> , 8, 755295	5.4	1
64	Association Between Left Ventricular Global Function Index and Outcomes in Patients With Dilated Cardiomyopathy. <i>Frontiers in Cardiovascular Medicine</i> , <b>2021</b> , 8, 751907	5.4	0
63	Monitoring of anthracycline-induced myocardial injury using serial cardiac magnetic resonance: An animal study. <i>International Journal of Cardiology</i> , <b>2021</b> , 328, 111-116	3.2	
62	Coronary plaque assessment of Vasodilative capacity by CT angiography effectively estimates fractional flow reserve. <i>International Journal of Cardiology</i> , <b>2021</b> , 331, 307-315	3.2	1
61	CT Findings of Pulmonary Metastases from Primary Cardiac Angiosarcoma. <i>Current Medical Imaging</i> , <b>2021</b> , 17, 1216-1220	1.2	1
60	Multi-task learning with Multi-view Weighted Fusion Attention for artery-specific calcification analysis. <i>Information Fusion</i> , <b>2021</b> , 71, 64-76	16.7	9
59	Association Between OSA and Quantitative Atherosclerotic Plaque Burden: A Coronary CT Angiography Study. <i>Chest</i> , <b>2021</b> , 160, 1864-1874	5.3	1
58	Fully automatic framework for comprehensive coronary artery calcium scores analysis on non-contrast cardiac-gated CT scan: Total and vessel-specific quantifications. <i>European Journal of Radiology</i> , <b>2021</b> , 134, 109420	4.7	8
57	The effect of coronary calcification on diagnostic performance of machine learning-based CT-FFR: a Chinese multicenter study. <i>European Radiology</i> , <b>2021</b> , 31, 1482-1493	8	8
56	Rationale, design, and baseline characteristics of Chinese registry in early detection and risk stratification of coronary plaques (C-STRAT) study. <i>Chinese Medical Journal</i> , <b>2021</b> , 134, 870-872	2.9	
55	Myocardial extracellular volume fraction quantification in an animal model of the doxorubicin-induced myocardial fibrosis: a synthetic hematocrit method using 3T cardiac magnetic resonance. <i>Quantitative Imaging in Medicine and Surgery</i> , <b>2021</b> , 11, 510-520	3.6	2

54	Myocardial extracellular volume fraction analysis in doxorubicin-induced beagle models: comparison of dual-energy CT with equilibrium contrast-enhanced single-energy CT. <i>Cardiovascular Diagnosis and Therapy</i> , <b>2021</b> , 11, 102-110	2.6	1
53	Cardiac involvement in COVID-19 patients: mid-term follow up by cardiovascular magnetic resonance. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2021</b> , 23, 14	6.9	39
52	Quantitative analysis of three-dimensional left ventricular global strain using coronary computed tomography angiography in patients with heart failure: Comparison with 3T cardiac MR. <i>European Journal of Radiology</i> , <b>2021</b> , 135, 109485	4.7	5
51	Diagnostic and Prognostic Value of Cardiac Magnetic Resonance Strain in Suspected Myocarditis With Preserved LV-EF: A Comparison Between Patients With Negative and Positive Late Gadolinium Enhancement Findings. <i>Journal of Magnetic Resonance Imaging</i> , <b>2021</b> ,	5.6	2
50	Spatio-temporal multi-task network cascade for accurate assessment of cardiac CT perfusion. <i>Medical Image Analysis</i> , <b>2021</b> , 74, 102207	15.4	0
49	Association between right ventricular strain and outcomes in patients with dilated cardiomyopathy. <i>Heart</i> , <b>2020</b> ,	5.1	9
48	Relation between quantity and quality of peri-coronary epicardial adipose tissue and its underlying hemodynamically significant coronary stenosis. <i>BMC Cardiovascular Disorders</i> , <b>2020</b> , 20, 226	2.3	3
47	Spontaneous interventricular septum dissecting hematoma with endocardial fibroelastosis: imaging, diagnosis, surgical therapy and 6-year follow-up outcomes. <i>Quantitative Imaging in Medicine and Surgery</i> , <b>2020</b> , 10, 878-882	3.6	1
46	Simultaneous left atrium anatomy and scar segmentations via deep learning in multiview information with attention. <i>Future Generation Computer Systems</i> , <b>2020</b> , 107, 215-228	7.5	44
45	Contrast agent-free synthesis and segmentation of ischemic heart disease images using progressive sequential causal GANs. <i>Medical Image Analysis</i> , <b>2020</b> , 62, 101668	15.4	20
44	The influence of image quality on diagnostic performance of a machine learning-based fractional flow reserve derived from coronary CT angiography. <i>European Radiology</i> , <b>2020</b> , 30, 2525-2534	8	11
43	Quantitative Assessment of Extracellular Volume in Doxorubicin-Induced Liver Injury in Beagle Models by Equilibrium Computed Tomography. <i>Journal of Computer Assisted Tomography</i> , <b>2020</b> , 44, 204-208	2.2	2
42	Cardiac magnetic resonance imaging of primary cardiac tumors. <i>Quantitative Imaging in Medicine and Surgery</i> , <b>2020</b> , 10, 294-313	3.6	11
41	Clinical and Imaging Features of Primary Cardiac Angiosarcoma. <i>Diagnostics</i> , <b>2020</b> , 10,	3.8	5
40	Spatiotemporal transfer of nitric oxide in patient-specific atherosclerotic carotid artery bifurcations with MRI and computational fluid dynamics modeling. <i>Computers in Biology and Medicine</i> , <b>2020</b> , 125, 104015	7	2
39	CT FFR for Ischemia-Specific CAD With a New Computational Fluid Dynamics Algorithm: A Chinese Multicenter Study. <i>JACC: Cardiovascular Imaging</i> , <b>2020</b> , 13, 980-990	8.4	29
38	Effect of a calcium deblooming algorithm on accuracy of coronary computed tomography angiography. <i>Journal of Cardiovascular Computed Tomography</i> , <b>2020</b> , 14, 131-136	2.8	2
37	Diagnostic Performance of Machine Learning Based CT-FFR in Detecting Ischemia in Myocardial Bridging and Concomitant Proximal Atherosclerotic Disease. <i>Canadian Journal of Cardiology</i> , <b>2019</b> , 35, 1523-1533	3.8	10

36	Quantification of doxorubicin-induced interstitial myocardial fibrosis in a beagle model using equilibrium contrast-enhanced computed tomography: A comparative study with cardiac magnetic resonance T1-mapping. <i>International Journal of Cardiology</i> , <b>2019</b> , 281, 150-155	3.2	9
35	Diagnostic performance of fractional flow reserve derived from coronary CT angiography for detection of lesion-specific ischemia: A multi-center study and meta-analysis. <i>European Journal of Radiology</i> , <b>2019</b> , 116, 90-97	4.7	18
34	Deep Learning for Diagnosis of Chronic Myocardial Infarction on Nonenhanced Cardiac Cine MRI. <i>Radiology</i> , <b>2019</b> , 291, 606-617	20.5	87
33	Morphometry and hemodynamics of coronary artery aneurysms caused by atherosclerosis. <i>Atherosclerosis</i> , <b>2019</b> , 284, 187-193	3.1	8
32	Morphometric and hemodynamic parameter dataset for coronary artery aneurysms caused by atherosclerosis. <i>Data in Brief</i> , <b>2019</b> , 25, 104293	1.2	2
31	Second-generation motion correction algorithm improves diagnostic accuracy of single-beat coronary CT angiography in patients with increased heart rate. <i>European Radiology</i> , <b>2019</b> , 29, 4215-4227 <sup>8</sup>		12
30	A Preliminary Study of Computed Tomography Coronary Angiography Within a Single Cardiac Cycle in Patients With Atrial Fibrillation Using 256-Row Detector Computed Tomography. <i>Journal of Computer Assisted Tomography</i> , <b>2018</b> , 42, 277-281	2.2	6
29	Impact of SSF on Diagnostic Performance of Coronary Computed Tomography Angiography Within 1 Heart Beat in Patients With High Heart Rate Using a 256-Row Detector Computed Tomography. <i>Journal of Computer Assisted Tomography</i> , <b>2018</b> , 42, 54-61	2.2	18
28	Blooming Artifact Reduction in Coronary Artery Calcification by A New De-blooming Algorithm: Initial Study. <i>Scientific Reports</i> , <b>2018</b> , 8, 6945	4.9	16
27	Clinical value of patient-specific three-dimensional printing of congenital heart disease: Quantitative and qualitative assessments. <i>PLoS ONE</i> , <b>2018</b> , 13, e0194333	3.7	41
26	Chinese expert consensus on the non-invasive imaging examination pathways of stable coronary artery disease. <i>Journal of Geriatric Cardiology</i> , <b>2018</b> , 15, 30-40	1.7	3
25	Direct delineation of myocardial infarction without contrast agents using a joint motion feature learning architecture. <i>Medical Image Analysis</i> , <b>2018</b> , 50, 82-94	15.4	65
24	Extracellular volume quantitation using dual-energy CT in patients with heart failure: Comparison with 3T cardiac MR. <i>International Journal of Cardiology</i> , <b>2018</b> , 268, 236-240	3.2	9
23	Quantitative analysis of late gadolinium enhancement in hypertrophic cardiomyopathy: comparison of diagnostic performance in myocardial fibrosis between gadobutrol and gadopentetate dimeglumine. <i>International Journal of Cardiovascular Imaging</i> , <b>2017</b> , 33, 1191-1200	2.5	10
22	Direct Detection of Pixel-Level Myocardial Infarction Areas via a Deep-Learning Algorithm. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 240-249	0.9	16
21	Clinical evaluation of new automatic coronary-specific best cardiac phase selection algorithm for single-beat coronary CT angiography. <i>PLoS ONE</i> , <b>2017</b> , 12, e0172686	3.7	5
20	Coronary CT angiography in calcified coronary plaques: Comparison of diagnostic accuracy between bifurcation angle measurement and coronary lumen assessment for diagnosing significant coronary stenosis. <i>International Journal of Cardiology</i> , <b>2016</b> , 203, 78-86	3.2	13
19	Quantification of regional aortic stiffness using MR elastography: A phantom and ex-vivo porcine aorta study. <i>Magnetic Resonance Imaging</i> , <b>2016</b> , 34, 91-6	3.3	6

18	Late Gadolinium Enhancement Amount As an Independent Risk Factor for the Incidence of Adverse Cardiovascular Events in Patients with Stage C or D Heart Failure. <i>Frontiers in Physiology</i> , <b>2016</b> , 7, 484	4.6	12
17	Molecular subgroups of adult medulloblastoma: a long-term single-institution study. <i>Neuro-Oncology</i> , <b>2016</b> , 18, 982-90	1	55
16	Coronary CT Angiography in Heavily Calcified Coronary Arteries: Improvement of Coronary Lumen Visualization and Coronary Stenosis Assessment With Image Postprocessing Methods. <i>Medicine (United States)</i> , <b>2015</b> , 94, e2148	1.8	13
15	Prospectively ECG-Triggered Sequential Dual-Source Coronary CT Angiography in Patients with Atrial Fibrillation: Influence of Heart Rate on Image Quality and Evaluation of Diagnostic Accuracy. <i>PLoS ONE</i> , <b>2015</b> , 10, e0134194	3.7	11
14	Noninvasive physiologic assessment of coronary stenoses using cardiac CT. <i>BioMed Research International</i> , <b>2015</b> , 2015, 435737	3	7
13	Virtual intravascular endoscopy visualization of calcified coronary plaques: a novel approach of identifying plaque features for more accurate assessment of coronary lumen stenosis. <i>Medicine (United States)</i> , <b>2015</b> , 94, e805	1.8	12
12	Coronary CT angiography evaluation of calcified coronary plaques by measurement of left coronary bifurcation angle. <i>International Journal of Cardiology</i> , <b>2015</b> , 182, 229-31	3.2	9
11	Computational fluid dynamics in coronary artery disease. <i>Computerized Medical Imaging and Graphics</i> , <b>2014</b> , 38, 651-63	7.6	27
10	Coronary CT angiography in the quantitative assessment of coronary plaques. <i>BioMed Research International</i> , <b>2014</b> , 2014, 346380	3	14
9	Molecular imaging of plaques in coronary arteries with PET and SPECT. <i>Journal of Geriatric Cardiology</i> , <b>2014</b> , 11, 259-73	1.7	12
8	Prospectively ECG-triggered sequential dual-source coronary CT angiography in patients with atrial fibrillation: comparison with retrospectively ECG-gated helical CT. <i>European Radiology</i> , <b>2013</b> , 23, 1822-8	8	19
7	MR elastography of the human abdominal aorta: a preliminary study. <i>Journal of Magnetic Resonance Imaging</i> , <b>2013</b> , 38, 1549-53	5.6	13
6	Assessment of stiffness changes in the ex vivo porcine aortic wall using magnetic resonance elastography. <i>Magnetic Resonance Imaging</i> , <b>2012</b> , 30, 122-7	3.3	16
5	Low dose prospective ECG-gated delayed enhanced dual-source computed tomography in reperfused acute myocardial infarction comparison with cardiac magnetic resonance. <i>European Journal of Radiology</i> , <b>2011</b> , 80, 326-30	4.7	10
4	Diagnostic performance of 320-detector CT coronary angiography in patients with atrial fibrillation: preliminary results. <i>European Radiology</i> , <b>2011</b> , 21, 936-43	8	39
3	Low-dose adaptive sequential scan for dual-source CT coronary angiography in patients with high heart rate: comparison with retrospective ECG gating. <i>European Journal of Radiology</i> , <b>2010</b> , 76, 183-7	4.7	23
2	Coronary CT angiography with low radiation dose. <i>International Journal of Cardiovascular Imaging</i> , <b>2010</b> , 26 Suppl 1, 17-25	2.5	31
1	"Palpation by imaging": magnetic resonance elastography. <i>Chinese Medical Sciences Journal</i> , <b>2006</b> , 21, 281-6	1.3	3

