Tim Leiner

List of Publications by Year
in descending order

278 papers	11,478 citations	31974 53 h-index	38392 95 g-index
285 all docs	285 docs citations	285 times ranked	12630 citing authors

#	Article	IF	Citations
1	Generative Adversarial Networks for Noise Reduction in Low-Dose CT. IEEE Transactions on Medical Imaging, 2017, 36, 2536-2545.	8.9	738
2	Diagnostic Performance of Noninvasive Myocardial Perfusion Imaging Using Single-Photon Emission Computed Tomography, Cardiac Magnetic Resonance, and Positron Emission Tomography Imaging for the Detection of Obstructive Coronary Artery Disease. Journal of the American College of Cardiology, 2012, 59, 1719-1728.	2.8	402
3	Iterative reconstruction techniques for computed tomography Part 1: Technical principles. European Radiology, 2013, 23, 1623-1631.	4.5	335
4	Diagnostic Accuracy of Stress Myocardial Perfusion Imaging Compared to Invasive Coronary Angiography With Fractional Flow Reserve Meta-Analysis. Circulation: Cardiovascular Imaging, 2015, 8, .	2.6	314
5	Accuracy of Computed Tomographic Angiography and Magnetic Resonance Angiography for Diagnosing Renal Artery Stenosis. Annals of Internal Medicine, 2004, 141, 674.	3.9	313
6	25 Years of Contrast-Enhanced MRI: Developments, Current Challenges and Future Perspectives. Advances in Therapy, 2016, 33, 1-28.	2.9	297
7	Myocardial Injury After Noncardiac Surgery and its Association With Short-Term Mortality. Circulation, 2013, 127, 2264-2271.	1.6	270
8	State-of-the-Art Deep Learning in Cardiovascular Image Analysis. JACC: Cardiovascular Imaging, 2019, 12, 1549-1565.	5.3	238
9	Iterative reconstruction techniques for computed tomography part 2: initial results in dose reduction and image quality. European Radiology, 2013, 23, 1632-1642.	4.5	232
10	Automatic coronary artery calcium scoring in cardiac CT angiography using paired convolutional neural networks. Medical Image Analysis, 2016, 34, 123-136.	11.6	228
11	Peripheral Arterial Disease: Meta-analysis of the Diagnostic Performance of MR Angiography. Radiology, 2000, 217, 105-114.	7.3	209
12	A Recurrent CNN for Automatic Detection and Classification of Coronary Artery Plaque and Stenosis in Coronary CT Angiography. IEEE Transactions on Medical Imaging, 2019, 38, 1588-1598.	8.9	172
13	SCMR Position Paper (2020) on clinical indications for cardiovascular magnetic resonance. Journal of Cardiovascular Magnetic Resonance, 2020, 22, 76.	3.3	169
14	Machine learning in cardiovascular magnetic resonance: basic concepts and applications. Journal of Cardiovascular Magnetic Resonance, 2019, 21, 61.	3.3	157
15	Deep learning analysis of the myocardium in coronary CT angiography for identification of patients with functionally significant coronary artery stenosis. Medical Image Analysis, 2018, 44, 72-85.	11.6	154
16	Accuracy of iodine quantification using dual energy CT in latest generation dual source and dual layer CT. European Radiology, 2017, 27, 3904-3912.	4.5	150
17	Deep Learning for Automatic Calcium Scoring in CT: Validation Using Multiple Cardiac CT and Chest CT Protocols. Radiology, 2020, 295, 66-79.	7.3	140
18	RF coils: A practical guide for nonphysicists. Journal of Magnetic Resonance Imaging, 2018, 48, 590-604.	3.4	137

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19	Coronary artery centerline extraction in cardiac CT angiography using a CNN-based orientation classifier. Medical Image Analysis, 2019, 51, 46-60.	11.6	129
20	Accuracy of Gadofosveset-enhanced MRI for Nodal Staging and Restaging in Rectal Cancer. Annals of Surgery, 2011, 253, 539-545.	4.2	128
21	The Extent of Coronary Atherosclerosis Is Associated With Increasing Circulating Levels of High Sensitive Cardiac Troponin T. Arteriosclerosis, Thrombosis, and Vascular Biology, 2010, 30, 1269-1275.	2.4	123
22	Diagnosis, imaging and clinical management of aortic coarctation. Heart, 2017, 103, 1148-1155.	2.9	120
23	Cardiac Magnetic Resonance Imaging Findings and the Risk of Cardiovascular Events in Patients With Recent Myocardial Infarction or Suspected or Known Coronary Artery Disease. Journal of the American College of Cardiology, 2014, 63, 1031-1045.	2.8	117
24	Chronic coumarin treatment is associated with increased extracoronary arterial calcification in humans. Blood, 2010, 115, 5121-5123.	1.4	113
25	Anatomical and Functional Computed Tomography for Diagnosing Hemodynamically Significant Coronary Artery Disease. JACC: Cardiovascular Imaging, 2019, 12, 1316-1325.	5.3	105
26	Cardiac magnetic resonance findings predicting mortality in patients with pulmonary arterial hypertension: a systematic review and meta-analysis. European Radiology, 2016, 26, 3771-3780.	4.5	101
27	Three-dimensional contrast-enhanced moving-bed infusion-tracking (MoBI-track) peripheral MR angiography with flexible choice of imaging parameters for each field of view. Journal of Magnetic Resonance Imaging, 2000, 11, 368-377.	3.4	99
28	Nephrogenic Systemic Fibrosis. JACC: Cardiovascular Imaging, 2011, 4, 1206-1216.	5.3	96
29	Automatic Coronary Calcium Scoring in Non-Contrast-Enhanced ECG-Triggered Cardiac CT With Ambiguity Detection. IEEE Transactions on Medical Imaging, 2015, 34, 1867-1878.	8.9	96
30	ConvNet-Based Localization of Anatomical Structures in 3-D Medical Images. IEEE Transactions on Medical Imaging, 2017, 36, 1470-1481.	8.9	94
31	Image quality in coronary CT angiography: challenges and technical solutions. British Journal of Radiology, 2017, 90, 20160567.	2.2	93
32	Comparison of magnetic resonance with computed tomography angiography for preoperative localization of the Adamkiewicz artery in thoracoabdominal aortic aneurysm patients. Journal of Vascular Surgery, 2007, 45, 677-685.	1.1	92
33	Peripheral Arterial Disease: Comparison of Color Duplex US and Contrast-enhanced MR Angiography for Diagnosis. Radiology, 2005, 235, 699-708.	7.3	90
34	Automated Coronary Artery Calcification Scoring in Non-Gated Chest CT: Agreement and Reliability. PLoS ONE, 2014, 9, e91239.	2.5	90
35	An international survey on AI in radiology in 1,041 radiologists and radiology residents part 1: fear of replacement, knowledge, and attitude. European Radiology, 2021, 31, 7058-7066.	4.5	86
36	Direct Automatic Coronary Calcium Scoring in Cardiac and Chest CT. IEEE Transactions on Medical Imaging, 2019, 38, 2127-2138.	8.9	82

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37	Cardiovascular Magnetic Resonance for Patients With COVID-19. JACC: Cardiovascular Imaging, 2022, 15, 685-699.	5.3	79
38	Value of MRI in medicine: More than just another test?. Journal of Magnetic Resonance Imaging, 2019, 49, e14-e25.	3.4	78
39	Coronary Artery Calcification Scoring with State-of-the-Art CT Scanners from Different Vendors Has Substantial Effect on Risk Classification. Radiology, 2014, 273, 695-702.	7.3	75
40	Magnetic resonance imaging T1- and T2-mapping to assess renal structure and function: a systematic review and statement paper. Nephrology Dialysis Transplantation, 2018, 33, ii41-ii50.	0.7	75
41	Deep learning analysis of left ventricular myocardium in CT angiographic intermediate-degree coronary stenosis improves the diagnostic accuracy for identification of functionally significant stenosis. European Radiology, 2019, 29, 2350-2359.	4.5	73
42	Gadobutrol-enhanced moving-table magnetic resonance angiography in patients with peripheral vascular disease: a prospective, multi-centre blinded comparison with digital subtraction angiography. European Radiology, 2003, 13, 2103-2114.	4.5	71
43	Deep Learning-Based Regression and Classification for Automatic Landmark Localization in Medical Images. IEEE Transactions on Medical Imaging, 2020, 39, 4011-4022.	8.9	70
44	Spinal Cord Feeding Arteries at MR Angiography for Thoracoscopic Spinal Surgery: Feasibility Study and Implications for Surgical Approach. Radiology, 2004, 233, 541-547.	7.3	66
45	Replacement and reactive myocardial fibrosis in idiopathic dilated cardiomyopathy: comparison of magnetic resonance imaging with right ventricular biopsy. European Journal of Heart Failure, 2010, 12, 227-231.	7.1	66
46	Sublingual Nitroglycerin Administration in Coronary Computed Tomography Angiography: a Systematic Review. European Radiology, 2015, 25, 3536-3542.	4.5	65
47	An evaluation of automatic coronary artery calcium scoring methods with cardiac CT using the orCaScore framework. Medical Physics, 2016, 43, 2361-2373.	3.0	63
48	Magnetic Resonance Imaging in Peripheral Arterial Disease. Investigative Radiology, 2011, 46, 11-24.	6.2	61
49	Accuracy of bone mineral density quantification using dual-layer spectral detector CT: a phantom study. European Radiology, 2017, 27, 4351-4359.	4.5	60
50	Comparison of the prognostic value of negative non-invasive cardiac investigations in patients with suspected or known coronary artery disease—a meta-analysis. European Heart Journal Cardiovascular Imaging, 2017, 18, 980-987.	1.2	60
51	Relation between cardiovascular disease risk factors and epicardial adipose tissue density on cardiac computed tomography in patients at high risk of cardiovascular events. European Journal of Preventive Cardiology, 2017, 24, 660-670.	1.8	60
52	Contrast-enhanced peripheral MR angiography at 3.0 Tesla: Initial experience with a whole-body scanner in healthy volunteers. Journal of Magnetic Resonance Imaging, 2003, 17, 609-614.	3.4	59
53	Magnetic Resonance Angiography of Abdominal and Lower Extremity Vasculature. Topics in Magnetic Resonance Imaging, 2005, 16, 21-66.	1.2	58
54	Multimodality Imaging Assessment of Prosthetic Heart Valves. Circulation: Cardiovascular Imaging, 2015, 8, e003703.	2.6	58

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55	AI-Based Reconstruction for Fast MRI—A Systematic Review and Meta-Analysis. Proceedings of the IEEE, 2022, 110, 224-245.	21.3	57
56	Achievable dose reduction using iterative reconstruction for chest computed tomography: A systematic review. European Journal of Radiology, 2015, 84, 2307-2313.	2.6	56
57	The effect of iterative reconstruction on computed tomography assessment of emphysema, air trapping and airway dimensions. European Radiology, 2012, 22, 2103-2109.	4.5	55
58	Clinical implications of microvascular obstruction and intramyocardial haemorrhage in acute myocardial infarction using cardiovascular magnetic resonance imaging. European Radiology, 2010, 20, 2572-2578.	4.5	53
59	Quantification of coronary artery calcium in nongated CT to predict cardiovascular events in male lung cancer screening participants: Results of the NELSON study. Journal of Cardiovascular Computed Tomography, 2015, 9, 50-57.	1.3	52
60	Relation between brown adipose tissue and measures of obesity and metabolic dysfunction in patients with cardiovascular disease. Journal of Magnetic Resonance Imaging, 2017, 46, 497-504.	3.4	52
61	Consensus-based technical recommendations for clinical translation of renal T1 and T2 mapping MRI. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2020, 33, 163-176.	2.0	52
62	Automatic determination of cardiovascular risk by CT attenuation correction maps in Rb-82 PET/CT. Journal of Nuclear Cardiology, 2018, 25, 2133-2142.	2.1	49
63	Gadofosveset-Enhanced Magnetic Resonance Imaging of Human Carotid Atherosclerotic Plaques. Investigative Radiology, 2010, 45, 275-281.	6.2	47
64	Safety of contrast-enhanced MR angiography employing gadobutrol 1.0ÂM as contrast material. European Radiology, 2003, 13, 2067-2074.	4.5	45
65	Artificial Intelligence Will Transform Cardiac Imaging—Opportunities and Challenges. Frontiers in Cardiovascular Medicine, 2019, 6, 133.	2.4	44
66	Diameter measurements of the forearm cephalic vein prior to vascular access creation in end-stage renal disease patients: graduated pressure cuff versus tourniquet vessel dilatation. Nephrology Dialysis Transplantation, 2006, 21, 802-806.	0.7	43
67	Comparison of lipid‐rich necrotic core size in symptomatic and asymptomatic carotid atherosclerotic plaque: Initial results. Journal of Magnetic Resonance Imaging, 2008, 27, 1356-1361.	3.4	43
68	Dose reduction with iterative reconstruction for coronary CT angiography: a systematic review and meta-analysis. British Journal of Radiology, 2016, 89, 20150068.	2.2	43
69	Deep Learning Analysis of Coronary Arteries in Cardiac CT Angiography for Detection of Patients Requiring Invasive Coronary Angiography. IEEE Transactions on Medical Imaging, 2020, 39, 1545-1557.	8.9	43
70	An international survey on AI in radiology in 1041 radiologists and radiology residents part 2: expectations, hurdles to implementation, and education. European Radiology, 2021, 31, 8797-8806.	4.5	43
71	Contrast agent concentration optimization in CTA using low tube voltage and dual-energy CT in multiple vendors: a phantom study. International Journal of Cardiovascular Imaging, 2018, 34, 1265-1275.	1.5	42
72	An 8-channel Tx/Rx dipole array combined with 16 Rx loops for high-resolution functional cardiac imaging at 7ÂT. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2018, 31, 7-18.	2.0	42

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73	Medical Imaging Techniques in the Evaluation of Strategies for Therapeutic Angiogenesis. Current Pharmaceutical Design, 2002, 8, 1467-1496.	1.9	41
74	Use of a three-station phased array coil to improve peripheral contrast-enhanced magnetic resonance angiography. Journal of Magnetic Resonance Imaging, 2004, 20, 417-425.	3.4	41
75	Does the aortic annulus undergo conformational change throughout the cardiac cycle? A systematic review. European Heart Journal Cardiovascular Imaging, 2015, 16, jev210.	1.2	41
76	Machine Learning for Assessment of Coronary Artery Disease in Cardiac CT: A Survey. Frontiers in Cardiovascular Medicine, 2019, 6, 172.	2.4	41
77	Correction for heart rate variability improves coronary magnetic resonance angiography. Journal of Magnetic Resonance Imaging, 2005, 22, 577-582.	3.4	39
78	Forearm cephalic vein cross-sectional area changes at incremental congestion pressures: Towards a standardized and reproducible vein mapping protocol. Journal of Vascular Surgery, 2006, 44, 353-358.	1.1	39
79	Atherosclerosis: Contrast-enhanced MR Imaging of Vessel Wall in Rabbit Model—Comparison of Gadofosveset and Gadopentetate Dimeglumine. Radiology, 2009, 250, 682-691.	7.3	39
80	Finding the optimal dose reduction and iterative reconstruction level for coronary calcium scoring. Journal of Cardiovascular Computed Tomography, 2016, 10, 69-75.	1.3	39
81	Automatic Segmentation and Disease Classification Using Cardiac Cine MR Images. Lecture Notes in Computer Science, 2018, , 101-110.	1.3	38
82	Relation of Epicardial Adipose Tissue Radiodensity to Coronary Artery Calcium on Cardiac Computed Tomography in Patients at High Risk for Cardiovascular Disease. American Journal of Cardiology, 2017, 119, 1359-1365.	1.6	37
83	Dilated Convolutional Neural Networks for Cardiovascular MR Segmentation in Congenital Heart Disease. Lecture Notes in Computer Science, 2017, , 95-102.	1.3	36
84	The impact of CT radiation dose reduction and iterative reconstruction algorithms from four different vendors on coronary calcium scoring. European Radiology, 2014, 24, 2201-2212.	4.5	35
85	Identification of Risk of Cardiovascular Disease by Automatic Quantification of Coronary Artery Calcifications on Radiotherapy Planning CT Scans in Patients With Breast Cancer. JAMA Oncology, 2021, 7, 1024.	7.1	35
86	Graph Convolutional Networks for Coronary Artery Segmentation in Cardiac CT Angiography. Lecture Notes in Computer Science, 2019, , 62-69.	1.3	35
87	Automatic Coronary Calcium Scoring in Cardiac CT Angiography Using Convolutional Neural Networks. Lecture Notes in Computer Science, 2015, , 589-596.	1.3	35
88	Automatic Coronary Artery Calcium Scoring on Radiotherapy Planning CT Scans of Breast Cancer Patients: Reproducibility and Association with Traditional Cardiovascular Risk Factors. PLoS ONE, 2016, 11, e0167925.	2.5	35
89	Nephrogenic systemic fibrosis is not exclusively associated with gadodiamide. European Radiology, 2007, 17, 1921-1923.	4.5	34
90	Computed Tomography Radiation Dose Reduction. Journal of Computer Assisted Tomography, 2014, 38, 815-823.	0.9	34

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91	Advanced cardiac MRI techniques for evaluation of left‐sided valvular heart disease. Journal of Magnetic Resonance Imaging, 2018, 48, 318-329.	3.4	33
92	Tricuspid flow and regurgitation in congenital heart disease and pulmonary hypertension: comparison of 4D flow cardiovascular magnetic resonance and echocardiography. Journal of Cardiovascular Magnetic Resonance, 2018, 20, 5.	3.3	32
93	Comparison of treatment plans for peripheral arterial disease made with multi-station contrast medium-enhanced magnetic resonance angiography and duplex ultrasound scanning. Journal of Vascular Surgery, 2003, 37, 1255-1262.	1.1	31
94	Hybrid and Model-Based Iterative Reconstruction Techniques for Pediatric CT. American Journal of Roentgenology, 2015, 204, 645-653.	2.2	31
95	The effect of iterative reconstruction on quantitative computed tomography assessment of coronary plaque composition. International Journal of Cardiovascular Imaging, 2014, 30, 155-163.	1.5	30
96	Endogenous assessment of diffuse myocardial fibrosis in patients with $T_{1ρ}$-mapping. Journal of Magnetic Resonance Imaging, 2017, 45, 132-138.	3.4	30
97	Animal models and animal-free innovations for cardiovascular research: current status and routes to be explored. Consensus document of the ESC Working Group on Myocardial Function and the ESC Working Group on Cellular Biology of the Heart. Cardiovascular Research, 2022, 118, 3016-3051.	3.8	30
98	Comparison of single‐sequence T1w TFE MRI with multisequence MRI for the quantification of lipid‐rich necrotic core in atherosclerotic plaque. Journal of Magnetic Resonance Imaging, 2008, 27, 1347-1355.	3.4	29
99	The Effects of Computed Tomography with Iterative Reconstruction on Solid Pulmonary Nodule Volume Quantification. PLoS ONE, 2013, 8, e58053.	2.5	29
100	Emphysema quantification using chest CT: influence of radiation dose reduction and reconstruction technique. European Radiology Experimental, 2018, 2, 30.	3.4	29
101	Dose of CT protocols acquired in clinical routine using a dual-layer detector CT scanner: A preliminary report. European Journal of Radiology, 2019, 112, 65-71.	2.6	29
102	Contemporary rationale for non-invasive imaging of adverse coronary plaque features to identify the vulnerable patient: a Position Paper from the European Society of Cardiology Working Group on Atherosclerosis and Vascular Biology and the European Association of Cardiovascular Imaging. European Heart Journal Cardiovascular Imaging, 2020, 21, 1177-1183.	1.2	29
103	Deep learning from dual‐energy information for whole‐heart segmentation in dual‐energy and single‐energy non‐contrast‐enhanced cardiac CT. Medical Physics, 2020, 47, 5048-5060.	3.0	29
104	3D black blood VISTA vessel wall cardiovascular magnetic resonance of the thoracic aorta wall in young, healthy adults: reproducibility and implications for efficacy trial sample sizes: a cross-sectional study. Journal of Cardiovascular Magnetic Resonance, 2016, 18, 20.	3.3	28
105	Generative Adversarial Networks: A Primer for Radiologists. Radiographics, 2021, 41, 840-857.	3.3	28
106	Comparison of Contrast-Enhanced Magnetic Resonance Angiography and Digital Subtraction Angiography in Patients With Chronic Critical Ischemia and Tissue Loss. Investigative Radiology, 2004, 39, 435-444.	6.2	27
107	Comprehensive MR evaluation of renal disease: Added clinical value of quantified renal perfusion values over single MR angiography. Journal of Magnetic Resonance Imaging, 2010, 31, 125-133.	3.4	27
108	A novel iterative reconstruction algorithm allows reduced dose multidetector-row CT imaging of mechanical prosthetic heart valves. International Journal of Cardiovascular Imaging, 2012, 28, 1567-1575.	1.5	26

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109	Inhibition of the Renin–Angiotensin System Affects Kidney Tissue Oxygenation Evaluated by <scp>Magnetic Resonance Imaging</scp> in Patients With Chronic Kidney Disease. Journal of Clinical Hypertension, 2014, 16, 214-218.	2.0	26
110	Submillisievert coronary calcium quantification using model-based iterative reconstruction: A within-patient analysis. European Journal of Radiology, 2016, 85, 2152-2159.	2.6	26
111	Multiparametric Renal MRI: An Intrasubject Test–Retest Repeatability Study. Journal of Magnetic Resonance Imaging, 2021, 53, 859-873.	3.4	26
112	Bringing AI to the clinic: blueprint for a vendor-neutral AI deployment infrastructure. Insights Into Imaging, 2021, 12, 11.	3.4	26
113	Iterative reconstruction does not substantially delay CT imaging in an emergency setting. Insights Into Imaging, 2013, 4, 391-397.	3.4	25
114	Subtractionless first-pass single contrast medium dose peripheral MR angiography using two-point Dixon fat suppression. European Radiology, 2013, 23, 2228-2235.	4.5	25
115	The impact of a new model-based iterative reconstruction algorithm on prosthetic heart valve related artifacts at reduced radiation dose MDCT. International Journal of Cardiovascular Imaging, 2014, 30, 785-793.	1.5	25
116	Prognostic Value of Coronary Computed Tomography Angiography in Patients With Diabetes: A Meta-analysis. Diabetes Care, 2016, 39, 1274-1280.	8.6	25
117	Influence of heart rate on coronary calcium scores: a multi-manufacturer phantom study. International Journal of Cardiovascular Imaging, 2018, 34, 959-966.	1.5	25
118	Data mining information from electronic health records produced high yield and accuracy for current smoking status. Journal of Clinical Epidemiology, 2020, 118, 100-106.	5.0	25
119	Transcatheter Aortic Valve Replacement: Postoperative CT Findings of Sapien and CoreValve Transcatheter Heart Valves. Radiographics, 2014, 34, 1517-1536.	3.3	24
120	Visualization of Coronary Wall Atherosclerosis in Asymptomatic Subjects and Patients with Coronary Artery Disease Using Magnetic Resonance Imaging. PLoS ONE, 2010, 5, e12998.	2.5	23
121	Reliability and agreement of adipose tissue fat fraction measurements with water–fat MRI in patients with manifest cardiovascular disease. NMR in Biomedicine, 2016, 29, 48-56.	2.8	23
122	Coronary calcium scoring with partial volume correction in anthropomorphic thorax phantom and screening chest CT images. PLoS ONE, 2018, 13, e0209318.	2.5	23
123	Detection of coronary plaques using MR coronary vessel wall imaging: validation of findings with intravascular ultrasound. European Radiology, 2013, 23, 115-124.	4.5	22
124	Effects of renal denervation on end organ damage in hypertensive patients. European Journal of Preventive Cardiology, 2015, 22, 558-567.	1.8	22
125	Pressure overloaded right ventricles: a multicenter study on the importance of trabeculae in RV function measured by CMR. International Journal of Cardiovascular Imaging, 2014, 30, 599-608.	1.5	21
126	Advances in cardiac magnetic resonance imaging of congenital heart disease. Pediatric Radiology, 2015, 45, 5-19.	2.0	21

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127	Effect of radiation dose reduction and iterative reconstruction on computer-aided detection of pulmonary nodules: Intra-individual comparison. European Journal of Radiology, 2016, 85, 346-351.	2.6	21
128	Feasibility and accuracy of dual-layer spectral detector computed tomography for quantification of gadolinium: a phantom study. European Radiology, 2017, 27, 3677-3686.	4.5	21
129	The impact of dose reduction on the quantification of coronary artery calcifications and risk categorization: A systematic review. Journal of Cardiovascular Computed Tomography, 2018, 12, 352-363.	1.3	21
130	Optimized pharmacokinetic modeling for the detection of perfusion differences in skeletal muscle with DCE‐MRI: Effect of contrast agent size. Medical Physics, 2010, 37, 5746-5755.	3.0	20
131	Dose reduction for coronary calcium scoring with hybrid and model-based iterative reconstruction: an ex vivo study. International Journal of Cardiovascular Imaging, 2014, 30, 1125-1133.	1.5	20
132	Effect of computed tomography before cardiac surgery on surgical strategy, mortality and stroke. European Journal of Radiology, 2016, 85, 744-750.	2.6	20
133	Unexpected Cardiac Computed Tomography Findings in Patients With Postoperative Myocardial Injury. Anesthesia and Analgesia, 2018, 126, 1462-1468.	2.2	20
134	Accuracy of Semiautomated Analysis of 3D Contrast-Enhanced Magnetic Resonance Angiography for Detection and Quantification of Aortoiliac Stenoses. Investigative Radiology, 2005, 40, 495-503.	6.2	19
135	Artifact reduction strategies for prosthetic heart valve CT imaging. International Journal of Cardiovascular Imaging, 2012, 28, 2099-2108.	1.5	19
136	Three-dimensional and four-dimensional flow assessment in congenital heart disease. Heart, 2020, 106, 421-426.	2.9	19
137	Machine learning in cardiovascular radiology: ESCR position statement on design requirements, quality assessment, current applications, opportunities, and challenges. European Radiology, 2021, 31, 3909-3922.	4.5	19
138	Need for background suppression in contrast-enhanced peripheral magnetic resonance angiography. Journal of Magnetic Resonance Imaging, 2001, 14, 724-733.	3.4	18
139	Cardiac valve calcifications on low-dose unenhanced ungated chest computed tomography: inter-observer and inter-examination reliability, agreement and variability. European Radiology, 2014, 24, 1557-1564.	4.5	18
140	Multicenter phase-II trial of safety and efficacy of NC100150 for steady-state contrast-enhanced peripheral magnetic resonance angiography. European Radiology, 2003, 13, 1620-1627.	4.5	17
141	Xenotransplantation of Human Cardiomyocyte Progenitor Cells Does Not Improve Cardiac Function in a Porcine Model of Chronic Ischemic Heart Failure. Results from a Randomized, Blinded, Placebo Controlled Trial. PLoS ONE, 2015, 10, e0143953.	2.5	17
142	Single Breath-Hold T1ϼMapping of the Heart for Endogenous Assessment of Myocardial Fibrosis. Investigative Radiology, 2016, 51, 505-512.	6.2	17
143	Radiation dose reduction for CT assessment of urolithiasis using iterative reconstruction: A prospective intra-individual study. European Radiology, 2018, 28, 143-150.	4.5	17
144	Subjective cognitive decline, brain imaging biomarkers, and cognitive functioning in patients with a history of vascular disease: the SMART-Medea study. Neurobiology of Aging, 2019, 84, 33-40.	3.1	17

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145	Improving the diagnosis of peripheral arterial disease in below-the-knee arteries by adding time-resolved CT scan series to conventional run-off CT angiography. First experience with a 256-slice CT scanner. European Journal of Radiology, 2019, 110, 136-141.	2.6	17
146	Fully automated quantification method (FQM) of coronary calcium in an anthropomorphic phantom. Medical Physics, 2021, 48, 3730-3740.	3.0	17
147	MR Angiography of Collateral Arteries in a Hind Limb Ischemia Model: Comparison between Blood Pool Agent Gadomer and Small Contrast Agent Gd-DTPA. PLoS ONE, 2011, 6, e16159.	2.5	17
148	Quantification of abdominal aortic aneurysm wall enhancement with dynamic contrast-enhanced MRI: Feasibility, reproducibility, and initial experience. Journal of Magnetic Resonance Imaging, 2014, 39, 1449-1456.	3.4	16
149	Coronary calcium scores are systematically underestimated at a large chest size: A multivendor phantom study. Journal of Cardiovascular Computed Tomography, 2015, 9, 415-421.	1.3	16
150	The interdependence between cardiovascular calcifications in different arterial beds and vascular risk factors in patients at high cardiovascular risk. Atherosclerosis, 2015, 238, 140-146.	0.8	16
151	Comparison of multi-delay FAIR and pCASL labeling approaches for renal perfusion quantification at 3T MRI. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2020, 33, 81-94.	2.0	16
152	Time-Efficient Black Blood RCA Wall Imaging at 3T Using Improved Motion Sensitized Driven Equilibrium (iMSDE): Feasibility and Reproducibility. PLoS ONE, 2011, 6, e26567.	2.5	16
153	Diagnostic Performance of CCTA and CT-FFR for the Detection of CAD in TAVRÂWork-Up. JACC: Cardiovascular Interventions, 2022, 15, 1140-1149.	2.9	16
154	Suitability of Pharmacokinetic Models for Dynamic Contrast-Enhanced MRI of Abdominal Aortic Aneurysm Vessel Wall: A Comparison. PLoS ONE, 2013, 8, e75173.	2.5	15
155	Prognostic value of heart valve calcifications for cardiovascular events in a lung cancer screening population. International Journal of Cardiovascular Imaging, 2015, 31, 1243-1249.	1.5	15
156	Magnetic resonance angiographic assessment of upper extremity vessels prior to vascular access surgery: feasibility and accuracy. European Radiology, 2008, 18, 158-167.	4.5	14
157	Effect of New Cerebral Ischemic Lesions on the Delirium Occurrence After Transcatheter Aortic Valve Replacement. Journal of the American College of Cardiology, 2016, 68, 1489-1490.	2.8	14
158	7ÂT renal MRI: challenges and promises. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2016, 29, 417-433.	2.0	14
159	Ultra low-dose chest ct with iterative reconstructions as an alternative to conventional chest x-ray prior to heart surgery (CRICKET study): Rationale and design of a multicenter randomized trial. Journal of Cardiovascular Computed Tomography, 2016, 10, 242-245.	1.3	14
160	Long-term results of balloon angioplasty for native coarctation of the aorta in childhood in comparison with surgery. European Journal of Cardio-thoracic Surgery, 2018, 53, 262-268.	1.4	14
161	Circulating levels of P-selectin and E-selectin relate to cardiovascular magnetic resonance-derived aortic characteristics in young adults from the general population, a cross-sectional study. Journal of Cardiovascular Magnetic Resonance, 2018, 20, 54.	3.3	14
162	Advances in Contrast-Enhanced MR Angiography of the Renal Arteries. Magnetic Resonance Imaging Clinics of North America, 2008, 16, 561-572.	1.1	13

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163	Main pulmonary artery area limits exercise capacity in patients long-term after arterial switch operation. Journal of Thoracic and Cardiovascular Surgery, 2015, 150, 918-925.	0.8	13
164	High ratios of kidney function to kidney size are related to mortality and kidney function decline in high-risk patients. European Journal of Preventive Cardiology, 2017, 24, 926-933.	1.8	13
165	RV adaptation to increased afterload in congenital heart disease and pulmonary hypertension. PLoS ONE, 2018, 13, e0205196.	2.5	13
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