

Mohamed Marwan

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78
papers

4,802
citations

32
h-index

69
g-index

80
ext. papers

6,153
ext. citations

4.8
avg, IF

5.13
L-index

#	Paper	IF	Citations
78	Diagnostic performance of noninvasive fractional flow reserve derived from coronary computed tomography angiography in suspected coronary artery disease: the NXT trial (Analysis of Coronary Blood Flow Using CT Angiography: Next Steps). <i>Journal of the American College of Cardiology</i> , 2014 , 63, 1145-1155	15.1	871
77	Coronary computed tomography angiography with a consistent dose below 1 mSv using prospectively electrocardiogram-triggered high-pitch spiral acquisition. <i>European Heart Journal</i> , 2010 , 31, 340-6	9.5	470
76	SCCT guidelines for the performance and acquisition of coronary computed tomographic angiography: A report of the society of Cardiovascular Computed Tomography Guidelines Committee: Endorsed by the North American Society for Cardiovascular Imaging (NASCI). <i>Journal of Cardiovascular Computed Tomography</i> , 2014 , 10, 135-140	2.8	386
75	Non-invasive detection of coronary inflammation using computed tomography and prediction of residual cardiovascular risk (the CRISP CT study): a post-hoc analysis of prospective outcome data. <i>Lancet, The</i> , 2018 , 392, 929-939	40	255
74	High-pitch spiral acquisition: a new scan mode for coronary CT angiography. <i>Journal of Cardiovascular Computed Tomography</i> , 2009 , 3, 117-21	2.8	208
73	Prospectively ECG-triggered high-pitch spiral acquisition for coronary CT angiography using dual source CT: technique and initial experience. <i>European Radiology</i> , 2009 , 19, 2576-83	8	171
72	Characterization of culprit lesions in acute coronary syndromes using coronary dual-source CT angiography. <i>Atherosclerosis</i> , 2010 , 211, 437-44	3.1	140
71	Automated three-dimensional quantification of noncalcified coronary plaque from coronary CT angiography: comparison with intravascular US. <i>Radiology</i> , 2010 , 257, 516-22	20.5	138
70	Computed Tomography Imaging in the Context of Transcatheter Aortic Valve Implantation (TAVI)/Transcatheter Aortic Valve Replacement (TAVR): An Expert Consensus Document of the Society of Cardiovascular Computed Tomography. <i>JACC: Cardiovascular Imaging</i> , 2019 , 12, 1-24	8.4	137
69	A novel machine learning-derived radiotranscriptomic signature of perivascular fat improves cardiac risk prediction using coronary CT angiography. <i>European Heart Journal</i> , 2019 , 40, 3529-3543	9.5	127
68	Detection of coronary artery stenoses by low-dose, prospectively ECG-triggered, high-pitch spiral coronary CT angiography. <i>JACC: Cardiovascular Imaging</i> , 2011 , 4, 328-37	8.4	127
67	Computed tomography imaging in the context of transcatheter aortic valve implantation (TAVI) / transcatheter aortic valve replacement (TAVR): An expert consensus document of the Society of Cardiovascular Computed Tomography. <i>Journal of Cardiovascular Computed Tomography</i> , 2019 , 13, 1-20	2.8	110
66	Image quality in a low radiation exposure protocol for retrospectively ECG-gated coronary CT angiography. <i>American Journal of Roentgenology</i> , 2009 , 192, 1045-50	5.4	103
65	Pericoronary Adipose Tissue Computed Tomography Attenuation and High-Risk Plaque Characteristics in Acute Coronary Syndrome Compared With Stable Coronary Artery Disease. <i>JAMA Cardiology</i> , 2018 , 3, 858-863	16.2	98
64	In vivo CT detection of lipid-rich coronary artery atherosclerotic plaques using quantitative histogram analysis: a head to head comparison with IVUS. <i>Atherosclerosis</i> , 2011 , 215, 110-5	3.1	98
63	Epicardial adipose tissue density and volume are related to subclinical atherosclerosis, inflammation and major adverse cardiac events in asymptomatic subjects. <i>Journal of Cardiovascular Computed Tomography</i> , 2018 , 12, 67-73	2.8	84
62	Reduction in radiation exposure in cardiovascular computed tomography imaging: results from the PROspective multicenter registry on radiaTion dose Estimates of cardiac CT angIOgraphy iN daily practice in 2017 (PROTECTION VI). <i>European Heart Journal</i> , 2018 , 39, 3715-3723	9.5	77

61	Prospectively ECG-triggered high-pitch coronary angiography with third-generation dual-source CT at 70 kVp tube voltage: feasibility, image quality, radiation dose, and effect of iterative reconstruction. <i>Journal of Cardiovascular Computed Tomography</i> , 2014 , 8, 418-25	2.8	69
60	Influence of slice thickness and reconstruction kernel on the computed tomographic attenuation of coronary atherosclerotic plaque. <i>Journal of Cardiovascular Computed Tomography</i> , 2010 , 4, 110-5	2.8	69
59	Assessment of coronary artery remodelling by dual-source CT: a head-to-head comparison with intravascular ultrasound. <i>Heart</i> , 2011 , 97, 991-7	5.1	65
58	Very low-dose coronary artery calcium scanning with high-pitch spiral acquisition mode: comparison between 120-kV and 100-kV tube voltage protocols. <i>Journal of Cardiovascular Computed Tomography</i> , 2013 , 7, 32-8	2.8	59
57	Relationship between changes in pericoronary adipose tissue attenuation and coronary plaque burden quantified from coronary computed tomography angiography. <i>European Heart Journal Cardiovascular Imaging</i> , 2019 , 20, 636-643	4.1	57
56	Comparison of quantitative atherosclerotic plaque burden from coronary CT angiography in patients with first acute coronary syndrome and stable coronary artery disease. <i>Journal of Cardiovascular Computed Tomography</i> , 2014 , 8, 368-74	2.8	52
55	Quantification of non-calcified coronary atherosclerotic plaques with dual-source computed tomography: comparison with intravascular ultrasound. <i>Heart</i> , 2010 , 96, 610-5	5.1	48
54	Quantification of epicardial fat by computed tomography: why, when and how?. <i>Journal of Cardiovascular Computed Tomography</i> , 2013 , 7, 3-10	2.8	46
53	Diagnostic Performance of Transluminal Attenuation Gradient and Noninvasive Fractional Flow Reserve Derived from 320-Detector Row CT Angiography to Diagnose Hemodynamically Significant Coronary Stenosis: An NXT Substudy. <i>Radiology</i> , 2016 , 279, 75-83	20.5	43
52	Accuracy of dual-source computed tomography to identify significant coronary artery disease in patients with atrial fibrillation: comparison with coronary angiography. <i>European Heart Journal</i> , 2010 , 31, 2230-7	9.5	43
51	Fully Automated CT Quantification of Epicardial Adipose Tissue by Deep Learning: A Multicenter Study. <i>Radiology: Artificial Intelligence</i> , 2019 , 1, e190045	8.7	41
50	CT predictors of post-procedural aortic regurgitation in patients referred for transcatheter aortic valve implantation: an analysis of 105 patients. <i>International Journal of Cardiovascular Imaging</i> , 2013 , 29, 1191-8	2.5	40
49	Contrast volume reduction using third generation dual source computed tomography for the evaluation of patients prior to transcatheter aortic valve implantation. <i>European Radiology</i> , 2016 , 26, 4497-4504	8	35
48	Epicardial adipose tissue volume but not density is an independent predictor for myocardial ischemia. <i>Journal of Cardiovascular Computed Tomography</i> , 2016 , 10, 141-9	2.8	35
47	CT Attenuation of Pericoronary Adipose Tissue in Normal Versus Atherosclerotic Coronary Segments as Defined by Intravascular Ultrasound. <i>Journal of Computer Assisted Tomography</i> , 2017 , 41, 762-767	2.2	33
46	Radiation exposure and image quality in staged low-dose protocols for coronary dual-source CT angiography: a randomized comparison. <i>European Radiology</i> , 2010 , 20, 1197-206	8	32
45	Automated attenuation-based selection of tube voltage and tube current for coronary CT angiography: reduction of radiation exposure versus a BMI-based strategy with an expert investigator. <i>Journal of Cardiovascular Computed Tomography</i> , 2013 , 7, 303-10	2.8	30
44	CT-based analysis of pericoronary adipose tissue density: Relation to cardiovascular risk factors and epicardial adipose tissue volume. <i>Journal of Cardiovascular Computed Tomography</i> , 2016 , 10, 52-60	2.8	29

43	Non-invasive prediction of hemodynamically significant coronary artery stenoses by contrast density difference in coronary CT angiography. <i>European Journal of Radiology</i> , 2015 , 84, 1502-1508	4.7	28
42	Association of systemic inflammation with epicardial fat and coronary artery calcification. <i>Inflammation Research</i> , 2015 , 64, 313-9	7.2	24
41	Reproducibility of semi-automatic coronary plaque quantification in coronary CT angiography with sub-mSv radiation dose. <i>Journal of Cardiovascular Computed Tomography</i> , 2016 , 10, 114-20	2.8	24
40	Comparison of invasively measured FFR with FFR derived from coronary CT angiography for detection of lesion-specific ischemia: Results from a PC-based prototype algorithm. <i>Journal of Cardiovascular Computed Tomography</i> , 2018 , 12, 101-107	2.8	21
39	Perivascular Fat Attenuation Index Stratifies Cardiac Risk Associated With High-Risk Plaques in the CRISP-CT Study. <i>Journal of the American College of Cardiology</i> , 2020 , 76, 755-757	15.1	21
38	Prediction of fluoroscopic angulations for transcatheter aortic valve implantation by CT angiography: influence on procedural parameters. <i>European Heart Journal Cardiovascular Imaging</i> , 2017 , 18, 906-914	4.1	20
37	Reproducibility of coronary plaque detection and characterization using low radiation dose coronary computed tomographic angiography in patients with intermediate likelihood of coronary artery disease (ReSCAN study). <i>International Journal of Cardiovascular Imaging</i> , 2012 , 28, 889-99	2.5	17
36	Accuracy of dual-source CT to identify significant coronary artery disease in patients with uncontrolled hypertension presenting with chest pain: comparison with coronary angiography. <i>International Journal of Cardiovascular Imaging</i> , 2012 , 28, 1173-80	2.5	16
35	Coronary vessel and luminal area measurement using dual-source computed tomography in comparison with intravascular ultrasound: effect of window settings on measurement accuracy. <i>Journal of Computer Assisted Tomography</i> , 2011 , 35, 113-8	2.2	16
34	Aortic annulus eccentricity before and after transcatheter aortic valve implantation: Comparison of balloon-expandable and self-expanding prostheses. <i>European Journal of Radiology</i> , 2015 , 84, 1242-8	4.7	13
33	Influence of the coronary calcium score on the ability to rule out coronary artery stenoses by coronary CT angiography in patients with suspected coronary artery disease. <i>Journal of Cardiovascular Computed Tomography</i> , 2016 , 10, 343-50	2.8	13
32	Pericoronary adipose tissue and quantitative global non-calcified plaque characteristics from CT angiography do not differ in matched South Asian, East Asian and European-origin Caucasian patients with stable chest pain. <i>European Journal of Radiology</i> , 2020 , 125, 108874	4.7	12
31	Patient-specific predictors of image noise in coronary CT angiography. <i>Journal of Cardiovascular Computed Tomography</i> , 2013 , 7, 39-45	2.8	12
30	Comparison of standard- and high-dose intracoronary adenosine for the measurement of coronary fractional flow reserve (FFR). <i>Clinical Research in Cardiology</i> , 2016 , 105, 1003-1010	6.1	12
29	Multicenter Evaluation Of Coronary Dual-Source CT angiography in patients with intermediate Risk of Coronary Artery Stenoses (MEDIC): study design and rationale. <i>Journal of Cardiovascular Computed Tomography</i> , 2014 , 8, 183-8	2.8	11
28	Quantification of epicardial adipose tissue by cardiac CT: Influence of acquisition parameters and contrast enhancement. <i>European Journal of Radiology</i> , 2019 , 121, 108732	4.7	11
27	Fractional flow reserve derived from coronary computed tomography angiography: diagnostic performance in hypertensive and diabetic patients. <i>European Heart Journal Cardiovascular Imaging</i> , 2017 , 18, 1351-1360	4.1	10
26	Computer-aided evaluation of low-dose and low-contrast agent third-generation dual-source CT angiography prior to transcatheter aortic valve implantation (TAVI). <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2017 , 12, 795-802	3.9	10

25	White Matter Lesions, Carotid and Coronary Atherosclerosis in Late-Onset Depression and Healthy Controls. <i>Psychosomatics</i> , 2016 , 57, 369-77	2.6	10
24	Meta-Analysis of Bioprosthetic Valve Thrombosis After Transcatheter Aortic Valve Implantation. <i>American Journal of Cardiology</i> , 2021 , 138, 92-99	3	10
23	Interobserver agreement for the detection of atherosclerotic plaque in coronary CT angiography: comparison of two low-dose image acquisition protocols with standard retrospectively ECG-gated reconstruction. <i>European Radiology</i> , 2012 , 22, 1529-36	8	9
22	Cardiac amyloidosis imaged by dual-source computed tomography. <i>Journal of Cardiovascular Computed Tomography</i> , 2008 , 2, 403-5	2.8	9
21	Ultra-low dose comprehensive cardiac CT imaging in a patient with acute myocarditis. <i>Journal of Cardiovascular Computed Tomography</i> , 2014 , 8, 475-6	2.8	6
20	High levels of eicosapentaenoic acid are associated with lower pericoronary adipose tissue attenuation as measured by coronary CTA. <i>Atherosclerosis</i> , 2021 , 316, 73-78	3.1	6
19	Epicardial fat, cardiovascular risk factors and calcifications in patients with chronic kidney disease. <i>CKJ: Clinical Kidney Journal</i> , 2020 , 13, 571-579	4.5	5
18	German cardiac CT registry: indications, procedural data and clinical consequences in 7061 patients undergoing cardiac computed tomography. <i>International Journal of Cardiovascular Imaging</i> , 2018 , 34, 807-819	2.5	4
17	Coronary plaque volume and composition assessed by computed tomography angiography in patients with late-onset major depression. <i>Psychosomatics</i> , 2014 , 55, 243-51	2.6	4
16	Imaging of the Pericoronary Adipose Tissue (PCAT) Using Cardiac Computed Tomography: Modern Clinical Implications. <i>Journal of Thoracic Imaging</i> , 2021 , 36, 149-161	5.6	3
15	Effect of non-compliant balloon postdilatation on magnesium-based bioresorbable vascular scaffolds. <i>Catheterization and Cardiovascular Interventions</i> , 2019 , 93, 202-207	2.7	3
14	Coronary computed tomography angiography (CCTA) in patients with suspected stable coronary artery disease (CAD): diagnostic impact and clinical consequences in the German Cardiac CT Registry depending on stress test results. <i>International Journal of Cardiovascular Imaging</i> , 2019 , 35, 741-748	2.5	3
13	Deep learning-enabled coronary CT angiography for plaque and stenosis quantification and cardiac risk prediction: an international multicentre study.. <i>The Lancet Digital Health</i> , 2022 , 4, e256-e265	14.4	3
12	Computational fluid dynamics: can computed tomography imaging compete with cath-lab physiology?. <i>Cardiovascular Research</i> , 2019 , 115, e41-e43	9.9	2
11	Optical coherence tomography: influence of contrast concentration on image quality and diagnostic confidence. <i>Heart and Vessels</i> , 2017 , 32, 653-659	2.1	2
10	Radiomics-Based Precision Phenotyping Identifies Unstable Coronary Plaques From Computed Tomography Angiography.. <i>JACC: Cardiovascular Imaging</i> , 2022 , 15, 859-871	8.4	2
9	Determination of optimal fluoroscopic angulations for aorto-coronary ostial interventions from coronary computed tomography angiography. <i>Journal of Cardiovascular Computed Tomography</i> , 2021 , 15, 366-371	2.8	1
8	Percutaneous coronary intervention of unprotected left main stenoses - Procedural data and outcome depending on SYNTAX I Score. <i>Cardiovascular Revascularization Medicine</i> , 2018 , 19, 740-743	1.6	1

7	Influence of reconstruction kernels on the accuracy of CT-derived fractional flow reserve. <i>European Radiology</i> , 2021 , 1	8	1
6	Pericoronary adipose tissue CT attenuation and its association with serum levels of atherosclerosis-relevant inflammatory mediators, coronary calcification and major adverse cardiac events. <i>Journal of Cardiovascular Computed Tomography</i> , 2021 , 15, 449-454	2.8	1
5	Risk Assessment of Coronary Obstruction During Transcatheter Aortic Valve Replacement: Insights From Post-BASILICA Computed Tomography.. <i>JACC: Cardiovascular Interventions</i> , 2022 , 15, 496-507	5	0
4	Differences of inflammatory cytokine profile in patients with vulnerable plaque: A coronary CTA study.. <i>Atherosclerosis</i> , 2022 , 350, 25-32	3.1	0
3	Role of CT Imaging for Coronary and Non-coronary Interventions. <i>Current Cardiovascular Imaging Reports</i> , 2017 , 10, 1	0.7	
2	The Many Uses of Epicardial Fat Measurements. <i>Contemporary Medical Imaging</i> , 2019 , 285-294	0.1	
1	Applicability and procedural success rate of bioresorbable -vascular scaffolds for percutaneous coronary intervention in an all-comer cohort of 383 consecutive patients. <i>Acta Cardiologica</i> , 2017 , 72, 425-432	0.9	