

Mohamed Marwan

List of Publications by Year in descending order

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80
papers

7,338
citations

109321

35
h-index

69250

77
g-index

80
all docs

80
docs citations

80
times ranked

5637
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of reconstruction kernels on the accuracy of CT-derived fractional flow reserve. <i>European Radiology</i> , 2022, 32, 2604-2610.	4.5	2
2	Radiomics-Based Precision Phenotyping Identifies Unstable Coronary Plaques From Computed Tomography Angiography. <i>JACC: Cardiovascular Imaging</i> , 2022, 15, 859-871.	5.3	24
3	Risk Assessment of Coronary Obstruction During Transcatheter Aortic Valve Replacement. <i>JACC: Cardiovascular Interventions</i> , 2022, 15, 496-507.	2.9	8
4	The Journal of cardiovascular computed tomography: A year in review 2021. <i>Journal of Cardiovascular Computed Tomography</i> , 2022, , .	1.3	1
5	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.	12.3	85
6	Differences of inflammatory cytokine profile in patients with vulnerable plaque: A coronary CTA study. <i>Atherosclerosis</i> , 2022, 350, 25-32.	0.8	2
7	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.	0.8	13
8	Meta-Analysis of Bioprosthetic Valve Thrombosis After Transcatheter Aortic Valve Implantation. <i>American Journal of Cardiology</i> , 2021, 138, 92-99.	1.6	27
9	Imaging of the Pericoronary Adipose Tissue (PCAT) Using Cardiac Computed Tomography. <i>Journal of Thoracic Imaging</i> , 2021, 36, 149-161.	1.5	24
10	Is PCAT CT Attenuation the "Game Changer"™ in the Prediction of Death and Myocardial Infarction?. <i>JACC: Cardiovascular Imaging</i> , 2021, 14, 1611-1613.	5.3	1
11	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.	1.3	21
12	Epicardial fat, cardiovascular risk factors and calcifications in patients with chronic kidney disease. <i>CKJ: Clinical Kidney Journal</i> , 2020, 13, 571-579.	2.9	8
13	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.	2.8	59
14	Determination of optimal fluoroscopic angulations for aorto-coronary ostial interventions from coronary computed tomography angiography. <i>Journal of Cardiovascular Computed Tomography</i> , 2020, 15, 366-371.	1.3	3
15	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.	2.6	29
16	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.	2.2	268
17	Computational fluid dynamics: can computed tomography imaging compete with cath-lab physiology?. <i>Cardiovascular Research</i> , 2019, 115, e41-e43.	3.8	5
18	The Many Uses of Epicardial Fat Measurements. <i>Contemporary Medical Imaging</i> , 2019, , 285-294.	0.4	0

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19	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.	1.2	129
20	Quantification of epicardial adipose tissue by cardiac CT: Influence of acquisition parameters and contrast enhancement. <i>European Journal of Radiology</i> , 2019, 121, 108732.	2.6	31
21	Fully Automated CT Quantification of Epicardial Adipose Tissue by Deep Learning: A Multicenter Study. <i>Radiology: Artificial Intelligence</i> , 2019, 1, e190045.	5.8	83
22	Effect of non-compliant balloon postdilatation on magnesium-based bioresorbable vascular scaffolds. <i>Catheterization and Cardiovascular Interventions</i> , 2019, 93, 202-207.	1.7	6
23	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.	1.5	4
24	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.	1.3	258
25	Computed Tomography Imaging in the Context of Transcatheter Aortic Valve Implantation (TAVI)/Transcatheter Aortic Valve Replacement (TAVR). <i>JACC: Cardiovascular Imaging</i> , 2019, 12, 1-24.	5.3	310
26	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.	0.8	1
27	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.	1.3	31
28	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.	1.3	143
29	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.	6.1	186
30	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.	2.2	149
31	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</i> , The, 2018, 392, 929-939.	13.7	589
32	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, jew144.	1.2	26
33	Role of CT Imaging for Coronary and Non-coronary Interventions. <i>Current Cardiovascular Imaging Reports</i> , 2017, 10, 1.	0.6	0
34	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.	1.2	15
35	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.	0.9	45
36	German cardiac CT registry: indications, procedural data and clinical consequences in 7061 patients undergoing cardiac computed tomography. <i>International Journal of Cardiovascular Imaging</i> , 2017, 34, 807-819.	1.5	5

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37	Optical coherence tomography: influence of contrast concentration on image quality and diagnostic confidence. <i>Heart and Vessels</i> , 2017, 32, 653-659.	1.2	3
38	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.	2.8	16
39	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	0
40	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.	3.3	12
41	White Matter Lesions, Carotid and Coronary Atherosclerosis in Late-Onset Depression and Healthy Controls. <i>Psychosomatics</i> , 2016, 57, 369-377.	2.5	13
42	Epicardial adipose tissue volume but not density is an independent predictor for myocardial ischemia. <i>Journal of Cardiovascular Computed Tomography</i> , 2016, 10, 141-149.	1.3	49
43	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, 114-120.	1.3	34
44	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, 343-350.	1.3	19
45	SCCT guidelines for the performance and acquisition of coronary computed tomographic angiography: A report of the Society of Cardiovascular Computed Tomography Guidelines Committee. <i>Journal of Cardiovascular Computed Tomography</i> , 2016, 10, 435-449.	1.3	663
46	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.	4.5	44
47	Diagnostic Performance of Transluminal Attenuation Gradient and Noninvasive Fractional Flow Reserve Derived from 320-Row CT Angiography to Diagnose Hemodynamically Significant Coronary Stenosis: An NXT Substudy. <i>Radiology</i> , 2016, 279, 75-83.	7.3	48
48	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.	1.3	45
49	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.	2.6	36
50	Association of systemic inflammation with epicardial fat and coronary artery calcification. <i>Inflammation Research</i> , 2015, 64, 313-319.	4.0	30
51	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, 1242-1248.	2.6	13
52	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, 418-425.	1.3	81
53	Ultra-low dose comprehensive cardiac CT imaging in a patient with acute myocarditis. <i>Journal of Cardiovascular Computed Tomography</i> , 2014, 8, 475-476.	1.3	9
54	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, 183-188.	1.3	11

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55	Coronary Plaque Volume and Composition Assessed by Computed Tomography Angiography in Patients With Late-Onset Major Depression. <i>Psychosomatics</i> , 2014, 55, 243-251.	2.5	5
56	Diagnostic Performance of Noninvasive Fractional Flow Reserve Derived From Coronary Computed Tomography Angiography in Suspected Coronary Artery Disease. <i>Journal of the American College of Cardiology</i> , 2014, 63, 1145-1155.	2.8	1,240
57	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, 368-374.	1.3	68
58	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, 1191-1198.	1.5	48
59	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, 303-310.	1.3	34
60	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, 32-38.	1.3	75
61	Patient-specific predictors of image noise in coronary CT angiography. <i>Journal of Cardiovascular Computed Tomography</i> , 2013, 7, 39-45.	1.3	15
62	Quantification of epicardial fat by computed tomography: Why, when and how?. <i>Journal of Cardiovascular Computed Tomography</i> , 2013, 7, 3-10.	1.3	65
63	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, 889-899.	1.5	18
64	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, 1173-1180.	1.5	19
65	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, 1529-1536.	4.5	10
66	Detection of Coronary Artery Stenoses by Low-Dose, Prospectively ECG-Triggered, High-Pitch Spiral Coronary CT Angiography. <i>JACC: Cardiovascular Imaging</i> , 2011, 4, 328-337.	5.3	148
67	Assessment of coronary artery remodelling by dual-source CT: a head-to-head comparison with intravascular ultrasound. <i>Heart</i> , 2011, 97, 991-997.	2.9	79
68	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, 110-115.	0.8	119
69	Coronary Vessel and Luminal Area Measurement Using Dual-Source Computed Tomography in Comparison With Intravascular Ultrasound. <i>Journal of Computer Assisted Tomography</i> , 2011, 35, 113-118.	0.9	17
70	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, 1197-1206.	4.5	33
71	Quantification of non-calcified coronary atherosclerotic plaques with dual-source computed tomography: comparison with intravascular ultrasound. <i>Heart</i> , 2010, 96, 610-615.	2.9	59
72	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, 340-346.	2.2	542

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73	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, 2230-2237.	2.2	46
74	Automated Three-dimensional Quantification of Noncalcified Coronary Plaque from Coronary CT Angiography: Comparison with Intravascular US. <i>Radiology</i> , 2010, 257, 516-522.	7.3	177
75	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, 110-115.	1.3	87
76	Characterization of culprit lesions in acute coronary syndromes using coronary dual-source CT angiography. <i>Atherosclerosis</i> , 2010, 211, 437-444.	0.8	163
77	Image Quality in a Low Radiation Exposure Protocol for Retrospectively ECG-Gated Coronary CT Angiography. <i>American Journal of Roentgenology</i> , 2009, 192, 1045-1050.	2.2	120
78	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, 2576-2583.	4.5	192
79	High-pitch spiral acquisition: A new scan mode for coronary CT angiography. <i>Journal of Cardiovascular Computed Tomography</i> , 2009, 3, 117-121.	1.3	233
80	Cardiac amyloidosis imaged by dual-source computed tomography. <i>Journal of Cardiovascular Computed Tomography</i> , 2008, 2, 403-405.	1.3	9