

Subhi J Al'aref

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

2,298
citations

331538

21
h-index

223716

46
g-index

84
all docs

84
docs citations

84
times ranked

3030
citing authors

#	ARTICLE	IF	CITATIONS
1	Coronary Atherosclerotic Precursors of Acute Coronary Syndromes. Journal of the American College of Cardiology, 2018, 71, 2511-2522.	1.2	328
2	Clinical applications of machine learning in cardiovascular disease and its relevance to cardiac imaging. European Heart Journal, 2019, 40, 1975-1986.	1.0	327
3	Maximization of the usage of coronary CTA derived plaque information using a machine learning based algorithm to improve risk stratification; insights from the CONFIRM registry. Journal of Cardiovascular Computed Tomography, 2018, 12, 204-209.	0.7	137
4	Machine learning of clinical variables and coronary artery calcium scoring for the prediction of obstructive coronary artery disease on coronary computed tomography angiography: analysis from the CONFIRM registry. European Heart Journal, 2020, 41, 359-367.	1.0	137
5	Society of Cardiovascular Computed Tomography / North American Society of Cardiovascular Imaging " Expert Consensus Document on Coronary CT Imaging of Atherosclerotic Plaque. Journal of Cardiovascular Computed Tomography, 2021, 15, 93-109.	0.7	117
6	Use of Mechanical Circulatory Support in Patients Undergoing Percutaneous Coronary Intervention. Circulation, 2015, 132, 1243-1251.	1.6	100
7	Prognostic value of coronary computed tomographic angiography findings in asymptomatic individuals: a 6-year follow-up from the prospective multicentre international CONFIRM study. European Heart Journal, 2018, 39, 934-941.	1.0	100
8	Association of High-Density Calcified 1K Plaque With Risk of Acute Coronary Syndrome. JAMA Cardiology, 2020, 5, 282.	3.0	90
9	Machine learning in cardiac CT: Basic concepts and contemporary data. Journal of Cardiovascular Computed Tomography, 2018, 12, 192-201.	0.7	86
10	Differentiation of Papillary Muscle From Fascicular and Mitral Annular Ventricular Arrhythmias in Patients With and Without Structural Heart Disease. Circulation: Arrhythmia and Electrophysiology, 2015, 8, 616-624.	2.1	83
11	Effect of sodium-glucose cotransporter 2 inhibitors on cardiovascular and kidney outcomes"Systematic review and meta-analysis of randomized placebo-controlled trials. American Heart Journal, 2021, 232, 10-22.	1.2	75
12	Machine Learning Framework to Identify Individuals at Risk of Rapid Progression of Coronary Atherosclerosis: From the PARADIGM Registry. Journal of the American Heart Association, 2020, 9, e013958.	1.6	53
13	Determinants of In-Hospital Mortality After Percutaneous Coronary Intervention: A Machine Learning Approach. Journal of the American Heart Association, 2019, 8, e011160.	1.6	52
14	Identification and Quantification of Cardiovascular Structures From CCTA. JACC: Cardiovascular Imaging, 2020, 13, 1163-1171.	2.3	44
15	Effects of sodium-glucose cotransporter 1 and 2 inhibitors on cardiovascular and kidney outcomes in type 2 diabetes: A meta-analysis update. American Heart Journal, 2021, 233, 86-91.	1.2	38
16	Clinical risk factors and atherosclerotic plaque extent to define risk for major events in patients without obstructive coronary artery disease: the long-term coronary computed tomography angiography CONFIRM registry. European Heart Journal Cardiovascular Imaging, 2020, 21, 479-488.	0.5	36
17	Clinical and Socioeconomic Predictors of Heart Failure Readmissions: A Review of Contemporary Literature. Mayo Clinic Proceedings, 2019, 94, 1304-1320.	1.4	32
18	2,3-Butanedione Monoxime Affects Cystic Fibrosis Transmembrane Conductance Regulator Channel Function through Phosphorylation-Dependent and Phosphorylation-Independent Mechanisms: The Role of Bilayer Material Properties. Molecular Pharmacology, 2006, 70, 2015-2026.	1.0	29

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19	Percent atheroma volume: Optimal variable to report whole-heart atherosclerotic plaque burden with coronary CTA, the PARADIGM study. <i>Journal of Cardiovascular Computed Tomography</i> , 2020, 14, 400-406.	0.7	29
20	An augmented reality system for image guidance of transcatheter procedures for structural heart disease. <i>PLoS ONE</i> , 2019, 14, e0219174.	1.1	26
21	Comparing a novel machine learning method to the Friedewald formula and Martin-Hopkins equation for low-density lipoprotein estimation. <i>PLoS ONE</i> , 2020, 15, e0239934.	1.1	26
22	Non-obstructive high-risk plaques increase the risk of future culprit lesions comparable to obstructive plaques without high-risk features: the ICONIC study. <i>European Heart Journal Cardiovascular Imaging</i> , 2020, 21, 973-980.	0.5	26
23	Automatic segmentation of multiple cardiovascular structures from cardiac computed tomography angiography images using deep learning. <i>PLoS ONE</i> , 2020, 15, e0232573.	1.1	23
24	Sodium-Glucose Cotransporter 2 Inhibitors and Cardiac Remodeling. <i>Journal of Cardiovascular Translational Research</i> , 2022, 15, 944-956.	1.1	21
25	Progression of whole-heart Atherosclerosis by coronary CT and major adverse cardiovascular events. <i>Journal of Cardiovascular Computed Tomography</i> , 2021, 15, 322-330.	0.7	19
26	¹⁸ F-Sodium Fluoride Positron Emission Tomography/Computed Tomography in Ex Vivo Human Coronary Arteries With Histological Correlation. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2020, 40, 404-411.	1.1	18
27	A Novel Deep Learning Approach for Automated Diagnosis of Acute Ischemic Infarction on Computed Tomography. <i>JACC: Cardiovascular Imaging</i> , 2018, 11, 1723-1725.	2.3	16
28	Cardiac CT: current practice and emerging applications. <i>Heart</i> , 2019, 105, 1597-1605.	1.2	16
29	Current and Future Applications of Artificial Intelligence in Coronary Artery Disease. <i>Healthcare (Switzerland)</i> , 2022, 10, 232.	1.0	15
30	Extraction of radiographic findings from unstructured thoracoabdominal computed tomography reports using convolutional neural network based natural language processing. <i>PLoS ONE</i> , 2020, 15, e0236827.	1.1	14
31	Machine learning insight into the role of imaging and clinical variables for the prediction of obstructive coronary artery disease and revascularization: An exploratory analysis of the CONSERVE study. <i>PLoS ONE</i> , 2020, 15, e0233791.	1.1	14
32	A Late Presentation of COVID-19 Vaccine-Induced Myocarditis. <i>Cureus</i> , 2021, 13, e17890.	0.2	14
33	Evaluation of Atherosclerotic Plaque in Non-invasive Coronary Imaging. <i>Korean Circulation Journal</i> , 2018, 48, 124.	0.7	13
34	Image Registration in Medical Robotics and Intelligent Systems: Fundamentals and Applications. <i>Advanced Intelligent Systems</i> , 2019, 1, 1900048.	3.3	13
35	Association of Plaque Location and Vessel Geometry Determined by Coronary Computed Tomographic Angiography With Future Acute Coronary Syndrome—Causing Culprit Lesions. <i>JAMA Cardiology</i> , 2022, 7, 309.	3.0	13
36	End-to-End, Pixel-Wise Vessel-Specific Coronary and Aortic Calcium Detection and Scoring Using Deep Learning. <i>Diagnostics</i> , 2021, 11, 215.	1.3	10

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37	Toward Development of Inflatable Stents with Application in Endovascular Treatments. <i>Advanced Functional Materials</i> , 2018, 28, 1804147.	7.8	9
38	Utilizing electronic health data and machine learning for the prediction of 30-day unplanned readmission or all-cause mortality in heart failure. <i>Cardiovascular Digital Health Journal</i> , 2020, 1, 71-79.	0.5	9
39	The Journal of Cardiovascular Computed Tomography: 2020 Year in review. <i>Journal of Cardiovascular Computed Tomography</i> , 2021, 15, 180-189.	0.7	9
40	Meta-Analysis of Efficacy of Sacubitril/Valsartan in Heart Failure With Preserved Ejection Fraction. <i>American Journal of Cardiology</i> , 2021, 145, 165-168.	0.7	8
41	Analysis of reperfusion time trends in patients with ST-elevation myocardial infarction across New York State from 2004 to 2012. <i>International Journal of Cardiology</i> , 2017, 232, 140-146.	0.8	7
42	High-risk atherosclerotic plaque features for cardiovascular risk assessment in the Prospective Multicenter Imaging Study for Evaluation of Chest Pain trial. <i>Cardiovascular Diagnosis and Therapy</i> , 2019, 9, 89-93.	0.7	7
43	The Journal of Cardiovascular Computed Tomography year in review " 2019. <i>Journal of Cardiovascular Computed Tomography</i> , 2020, 14, 107-117.	0.7	5
44	A Catheter-Deployable Soft Robotic Inflatable Basket for Enhanced Conformability to the Left Atrium of the Heart. <i>Advanced Healthcare Materials</i> , 2020, 9, e1900951.	3.9	5
45	Idiopathic cystic artery aneurysm complicated with hemobilia and acute pancreatitis. <i>Hepatobiliary and Pancreatic Diseases International</i> , 2008, 7, 547-50.	0.6	5
46	The Journal of Cardiovascular Computed Tomography year in review - 2018. <i>Journal of Cardiovascular Computed Tomography</i> , 2018, 12, 529-538.	0.7	4
47	Using electronic health records for population health sciences: a case study to evaluate the associations between changes in left ventricular ejection fraction and the built environment. <i>JAMIA Open</i> , 2020, 3, 386-394.	1.0	4
48	Major adverse cardiac events in symptomatic women with non-obstructive CAD on coronary CTA: pooled analysis from PROMISE and SCOT-HEART. <i>International Journal of Cardiovascular Imaging</i> , 2022, 38, 683-693.	0.7	4
49	Association between epicardial fat volume and fractional flow reserve: An analysis of the determination of fractional flow reserve (DeFACTO) study. <i>Clinical Imaging</i> , 2018, 51, 30-34.	0.8	3
50	Bioprosthetic mitral valve paravalvular leak closure using intracardiac echocardiography-guided three dimensional electroanatomic mapping. <i>Catheterization and Cardiovascular Interventions</i> , 2018, 92, E135-E138.	0.7	3
51	Left ventricular outflow tract calcium and TAVR "The tip of the iceberg?. <i>Journal of Cardiovascular Computed Tomography</i> , 2020, 14, 42-43.	0.7	3
52	Left Atrial Appendage Closure: An Alternative to Anticoagulation for Stroke Prevention in Patients with Kidney Disease. <i>Kidney360</i> , 2022, 3, 396-402.	0.9	3
53	Evaluating the Coronary Artery Disease Consortium Model and the Coronary Artery Calcium Score in Predicting Obstructive Coronary Artery Disease in a Symptomatic Mixed Asian Cohort. <i>Journal of the American Heart Association</i> , 2022, 11, e022697.	1.6	3
54	Cardiac magnetic resonance for prophylactic implantable-cardioverter defibrillator therapy international study: prognostic value of cardiac magnetic resonance-derived right ventricular parameters substudy. <i>European Heart Journal Cardiovascular Imaging</i> , 2023, 24, 472-482.	0.5	3

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55	Trans-catheter aortic valve-in-valve implantation in an elderly patient with Evans syndrome. Journal of Cardiology Cases, 2016, 13, 146-148.	0.2	2
56	Endovascular Therapy of Axillary Artery Disease with Drug-Coated Balloon Angioplasty. Baylor University Medical Center Proceedings, 2017, 30, 431-434.	0.2	2
57	A cross-sectional survey of coronary plaque composition in individuals on non-statin lipid lowering drug therapies and undergoing coronary computed tomography angiography. Journal of Cardiovascular Computed Tomography, 2019, 13, 99-104.	0.7	2
58	Advanced Manufacturing of Patient-specific Occluders for the Left Atrial Appendage with Minimally Invasive Delivery. Advanced Engineering Materials, 2020, 22, 1901074.	1.6	2
59	Atrial Septal Defect Closure for Right-to-Left Shunting Following a MitraClip Repair. Journal of Invasive Cardiology, 2016, 28, E80-1.	0.4	2
60	Artificial intelligence in clinical imaging: An introduction. Clinical Imaging, 2018, 49, vii-ix.	0.8	1
61	Performance of Dynamic Automated CT Annular Measurements Compared with Standard Manual Measurements for Transcatheter Aortic Valve Replacement Sizing. Radiology: Cardiothoracic Imaging, 2019, 1, e180025.	0.9	1
62	Potential impact of dynamic automated CT aortic annular measurements on outcomes for transcatheter aortic valve replacement sizing. International Journal of Cardiovascular Imaging, 2020, 36, 2291-2297.	0.7	1
63	Reduction in radiation exposure using a focused low-voltage scan before coronary CT angiography. Journal of Cardiovascular Computed Tomography, 2021, 15, 246-248.	0.7	1
64	NSAIDs Alter Lipid Bilayer Mechanical Properties. Biophysical Journal, 2009, 96, 150a.	0.2	0
65	Response to Letter by Yamada et al Regarding "Differentiation of Papillary Muscle From Fascicular and Mitral Annular Ventricular Arrhythmias in Patients With and Without Structural Heart Disease": Circulation: Arrhythmia and Electrophysiology, 2015, 8, 1302-1302.	2.1	0
66	LONG-TERM CARDIOVASCULAR OUTCOMES IN PATIENTS WITH ANOMALOUS CORONARY ARTERIES VISUALIZED BY CORONARY CT ANGIOGRAPHY: THE CONFIRM (CORONARY CT ANGIOGRAPHY EVALUATION) Trial. Journal of Cardiology, 2017, 69, 647.	1.2	0
67	QUANTITATIVE MEASUREMENT OF CORONARY INTRA-PLAQUE NECROTIC CORE BY CORONARY CT ANGIOGRAPHY IN VICTIMS OF AUTOPSY-PROVEN SUDDEN CORONARY DEATH: A COMPARISON TO A HISTOLOGIC REFERENCE STANDARD. Journal of the American College of Cardiology, 2017, 69, 1602.	1.2	0
68	OPTIMAL METHOD FOR NECROTIC CORE IDENTIFICATION IN CORONARY PLAQUE WITH DUAL-ENERGY COMPUTED TOMOGRAPHY: MATERIAL DECOMPOSITION AND ATOMIC NUMBER. Journal of the American College of Cardiology, 2017, 69, 1650.	1.2	0
69	Coronary artery calcium: A modern rubric for an established approach. Journal of Cardiovascular Computed Tomography, 2020, 14, 18-19.	0.7	0
70	Coronary-Cameral Fistula, Thebesian Veins, and Anomalous Coronary Vein on Cardiac Computed Tomography. Cureus, 2021, 13, e15589.	0.2	0
71	Title is missing!. , 2020, 15, e0236827.		0
72	Title is missing!. , 2020, 15, e0236827.		0

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73	Title is missing!. , 2020, 15, e0236827.		0
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