Zachi I Attia

List of Publications by Year
in descending order

63	4,128	257450 24	128289 60
papers	citations	h-index	g-index

63	63	63	2862
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An artificial intelligence-enabled ECG algorithm for the identification of patients with atrial fibrillation during sinus rhythm: a retrospective analysis of outcome prediction. Lancet, The, 2019, 394, 861-867.	13.7	794
2	Screening for cardiac contractile dysfunction using an artificial intelligenceâ€“enabled electrocardiogram. Nature Medicine, 2019, 25, 70-74.	30.7	686
3	Artificial intelligence-enhanced electrocardiography in cardiovascular disease management. Nature Reviews Cardiology, 2021, 18, 465-478.	13.7	298
4	Age and Sex Estimation Using Artificial Intelligence From Standard 12-Lead ECGs. Circulation: Arrhythmia and Electrophysiology, 2019, 12, e007284.	4.8	213
5	Development and Validation of a Deep-Learning Model to Screen for Hyperkalemia From the Electrocardiogram. JAMA Cardiology, 2019, 4, 428.	6.1	188
6	Detection of Hypertrophic Cardiomyopathy Using a Convolutional Neural Network-Enabled Electrocardiogram. Journal of the American College of Cardiology, 2020, 75, 722-733.	2.8	183
7	Artificial intelligenceâ€“enabled electrocardiograms for identification of patients with low ejection fraction: a pragmatic, randomized clinical trial. Nature Medicine, 2021, 27, 815-819.	30.7	154
8	Artificial Intelligence in Cardiology: Present and Future. Mayo Clinic Proceedings, 2020, 95, 1015-1039.	3.0	127
9	Assessing and Mitigating Bias in Medical Artificial Intelligence. Circulation: Arrhythmia and Electrophysiology, 2020, 13, e007988.	4.8	116
10	Prospective validation of a deep learning electrocardiogram algorithm for the detection of left ventricular systolic dysfunction. Journal of Cardiovascular Electrophysiology, 2019, 30, 668-674.	1.7	98
11	Artificial Intelligence and Machine Learning in Arrhythmias and Cardiac Electrophysiology. Circulation: Arrhythmia and Electrophysiology, 2020, 13, e007952.	4.8	96
12	Application of artificial intelligence to the electrocardiogram. European Heart Journal, 2021, 42, 4717-4730.	2.2	96
13	Electrocardiogram screening for aortic valve stenosis using artificial intelligence. European Heart Journal, 2021, 42, 2885-2896.	2.2	95
14	Artificial Intelligence-Enabled ECG Algorithm to Identify Patients With Left Ventricular Systolic Dysfunction Presenting to the Emergency Department With Dyspnea. Circulation: Arrhythmia and Electrophysiology, 2020, 13, e008437.	4.8	81
15	Artificial Intelligenceâ€“Enabled Assessment of the Heart Rate Corrected QT Interval Using a Mobile Electrocardiogram Device. Circulation, 2021, 143, 1274-1286.	1.6	75
16	Artificial Intelligenceâ€“Electrocardiography to Predict Incident Atrial Fibrillation. Circulation: Arrhythmia and Electrophysiology, 2020, 13, e009355.	4.8	68
17	Use of Artificial Intelligence and Deep Neural Networks in Evaluation of Patients With Electrocardiographically Concealed Long QT Syndrome From the Surface 12-Lead Electrocardiogram. JAMA Cardiology, 2021, 6, 532.	6.1	65
18	Novel Bloodless Potassium Determination Using a Signalâ€Processed Singleâ€Lead ECG. Journal of the American Heart Association, 2016, 5, .	3.7	59

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19	ECG AI-Guided Screening for Low Ejection Fraction (EAGLE): Rationale and design of a pragmatic cluster randomized trial. American Heart Journal, 2020, 219, 31-36.	2.7	50
20	Detection of hypertrophic cardiomyopathy by an artificial intelligence electrocardiogram in children and adolescents. International Journal of Cardiology, 2021, 340, 42-47.	1.7	35
21	Noninvasive blood potassium measurement using signal-processed, single-lead ecg acquired from a handheld smartphone. Journal of Electrocardiology, 2017, 50, 620-625.	0.9	33
22	A comprehensive artificial intelligenceâ€“enabled electrocardiogram interpretation program. Cardiovascular Digital Health Journal, 2020, 1, 62-70.	1.3	33
23	The 12-lead electrocardiogram as a biomarker of biological age. European Heart Journal Digital Health, 2021, 2, 379-389.	1.7	30
24	Noninvasive assessment of dofetilide plasma concentration using a deep learning (neural network) analysis of the surface electrocardiogram: A proof of concept study. PLoS ONE, 2018, 13, e0201059.	2.5	28
25	Survey of current perspectives on consumer-available digital health devices for detecting atrial fibrillation. Cardiovascular Digital Health Journal, 2020, 1, 21-29.	1.3	28
26	Pragmatic considerations for fostering reproducible research in artificial intelligence. Npj Digital Medicine, 2019, 2, 42.	10.9	27
27	Left ventricular systolic dysfunction identification using artificial intelligence-augmented electrocardiogram in cardiac intensive care unit patients. International Journal of Cardiology, 2021, 326, 114-123.	1.7	25
28	Vascular Aging Detected by Peripheral Endothelial Dysfunction Is Associated With ECGâ€Derived Physiological Aging. Journal of the American Heart Association, 2021, 10, e018656.	3.7	25
29	Identification of Concealed and Manifest Long QT Syndrome Using a Novel T Wave Analysis Program. Circulation: Arrhythmia and Electrophysiology, 2016, 9, .	4.8	21
30	Artificial Intelligence ECG to Detect Left Ventricular Dysfunction in COVID-19. Mayo Clinic Proceedings, 2020, 95, 2464-2466.	3.0	21
31	Batch enrollment for an artificial intelligence-guided intervention to lower neurologic events in patients with undiagnosed atrial fibrillation: rationale and design of a digital clinical trial. American Heart Journal, 2021, 239, 73-79.	2.7	21
32	Digital Health and the Care of the Patient With Arrhythmia. Circulation: Arrhythmia and Electrophysiology, 2020, 13, e007953.	4.8	20
33	An artificial intelligenceâ€“enabled ECG algorithm for comprehensive ECG interpretation: Can it pass the â€˜Turing testâ€™?. Cardiovascular Digital Health Journal, 2021, 2, 164-170.	1.3	18
34	Development of the AI-Cirrhosis-ECG Score: An Electrocardiogram-Based Deep Learning Model in Cirrhosis. American Journal of Gastroenterology, 2022, 117, 424-432.	0.4	17
35	Rapid Exclusion of COVID Infection With the Artificial Intelligence Electrocardiogram. Mayo Clinic Proceedings, 2021, 96, 2081-2094.	3.0	15
36	Artificial Intelligence-Enabled Electrocardiography to Screen Patients with Dilated Cardiomyopathy. American Journal of Cardiology, 2021, 155, 121-127.	1.6	15

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37	Architectural T-Wave Analysis and Identification of On-Therapy Breakthrough Arrhythmic Risk in Type 1 and Type 2 Long-QT Syndrome. Circulation: Arrhythmia and Electrophysiology, 2017, 10, .	4.8	11
38	Mortality risk stratification using artificial intelligence-augmented electrocardiogram in cardiac intensive care unit patients. European Heart Journal: Acute Cardiovascular Care, 2021, 10, 532-541.	1.0	11
39	Errors of Classification With Potassium Blood Testing: The Variability and Repeatability of Critical Clinical Tests. Mayo Clinic Proceedings, 2018, 93, 566-572.	3.0	10
40	Detection of Left Atrial Myopathy Using Artificial Intelligenceâ€“Enabled Electrocardiography. Circulation: Heart Failure, 2022, 15, CIRCHEARTFAILURE120008176.	3.9	10
41	Automated detection of low ejection fraction from a one-lead electrocardiogram: application of an AI algorithm to an electrocardiogram-enabled Digital Stethoscope. European Heart Journal Digital Health, 2022, 3, 373-379.	1.7	10
42	Migraine with aura associates with a higher artificial intelligence: <scp>ECG</scp> atrial fibrillation prediction model output compared to migraine without aura in both women and men. Headache, 2022, 62, 939-951.	3.9	10
43	Clinical trial design data for electrocardiogram artificial intelligence-guided screening for low ejection fraction (EAGLE). Data in Brief, 2020, 28, 104894.	1.0	9
44	Deep neural networks learn by using human-selected electrocardiogram features and novel features. European Heart Journal Digital Health, 2021, 2, 446-455.	1.7	9
45	Electrocardiographic predictors of coronary microvascular dysfunction in patients with non-obstructive coronary artery disease: Utility of a novel T wave analysis program. International Journal of Cardiology, 2016, 203, 601-606.	1.7	8
46	Studying accelerated cardiovascular ageing in Russian adults through a novel deep-learning ECG biomarker. Wellcome Open Research, 0, 6, 12.	1.8	8
47	Real-world performance, long-term efficacy, and absence of bias in the artificial intelligence enhanced electrocardiogram to detect left ventricular systolic dysfunction. European Heart Journal Digital Health, 2022, 3, 238-244.	1.7	8
48	Use of Artificial Intelligence Electrocardiography to Predict Atrial Fibrillation (AF) in Patients with Chronic Lymphocytic Leukemia (CLL). Blood, 2020, 136, 50-51.	1.4	7
49	Use of Artificial Intelligence Tools Across Different Clinical Settings. Circulation: Cardiovascular Quality and Outcomes, 2021, 14, e008153.	2.2	6
50	Digital health innovation in cardiology. Cardiovascular Digital Health Journal, 2020, 1, 6-8.	1.3	6
51	Artificial Intelligenceâ€“Enabled Electrocardiogram for Atrial Fibrillation Identifies Cognitive Decline Risk and Cerebral Infarcts. Mayo Clinic Proceedings, 2022, 97, 871-880.	3.0	6
52	An AI-ECG algorithm for atrial fibrillation risk: steps towards clinical implementation â€“ Authors' reply. Lancet, The, 2020, 396, 236-237.	13.7	5
53	Electrocardiography-Based Artificial Intelligence Algorithm Aids in Prediction of Long-term Mortality After Cardiac Surgery. Mayo Clinic Proceedings, 2021, 96, 3062-3070.	3.0	5
54	Coronary Microvascular Dysfunction and the Risk of Atrial Fibrillation From an Artificial Intelligence-Enabled Electrocardiogram. Circulation: Arrhythmia and Electrophysiology, 2021, 14, e009947.	4.8	4

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55	The effect of cardiac rhythm on artificial intelligence-enabled ECG evaluation of left ventricular ejection fraction prediction in cardiac intensive care unit patients. International Journal of Cardiology, 2021, 339, 54-55.	1.7	4
56	Current and future implications of the artificial intelligence electrocardiogram: the transformation of healthcare and attendant research opportunities. Cardiovascular Research, 2022, 118, e23-e25.	3.8	4
57	Implementation of a fully remote randomized clinical trial with cardiac monitoring. Communications Medicine, 2021, 1, .	4.2	4
58	Artificial intelligenceâ€"electrocardiography to detect atrial fibrillation: trend of probability before and after the first episode. European Heart Journal Digital Health, 2022, 3, 228-235.	1.7	4
59	Diagnosis and treatment of new heart failure with reduced ejection fraction by the artificial intelligenceâ€“enhanced electrocardiogram. Cardiovascular Digital Health Journal, 2021, 2, 282-284.	1.3	3
60	Machine learning aids clinical decision making in patients presenting with angina and non-obstructive coronary artery disease. European Heart Journal Digital Health, 0, , .	1.7	3
61	Artificial Intelligence Application in Graves Disease. Mayo Clinic Proceedings, 2022, 97, 730-737.	3.0	3
62	Left ventricular systolic dysfunction predicted by artificial intelligence using the electrocardiogram in Chagas disease patientsâ€"The SaMi-Trop cohort. PLoS Neglected Tropical Diseases, 2021, 15, e0009974.	3.0	3
63	Evaluating atrial fibrillation artificial intelligence for the ED: statistical and clinical implications. American Journal of Emergency Medicine, 2022, 57, 98-102.	1.6	3