Zachi I Attia

List of Publications by Year
in descending order

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63	4,128	257101	133063
papers	citations	24 h-index	59 g-index

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

#	Article	IF	Citations
1	Current and future implications of the artificial intelligence electrocardiogram: the transformation of healthcare and attendant research opportunities. Cardiovascular Research, 2022, 118, e23-e25.	1.8	4
2	Artificial Intelligence Application in Graves Disease. Mayo Clinic Proceedings, 2022, 97, 730-737.	1.4	3
3	Detection of Left Atrial Myopathy Using Artificial Intelligenceâ€“Enabled Electrocardiography. Circulation: Heart Failure, 2022, 15, CIRCHEARTFAILURE120008176.	1.6	10
4	Development of the AI-Cirrhosis-ECG Score: An Electrocardiogram-Based Deep Learning Model in Cirrhosis. American Journal of Gastroenterology, 2022, 117, 424-432.	0.2	17
5	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.	0.7	4
6	Artificial Intelligenceâ€“Enabled Electrocardiogram for Atrial Fibrillation Identifies Cognitive Decline Risk and Cerebral Infarcts. Mayo Clinic Proceedings, 2022, 97, 871-880.	1.4	6
7	Evaluating atrial fibrillation artificial intelligence for the ED: statistical and clinical implications. American Journal of Emergency Medicine, 2022, 57, 98-102.	0.7	3
8	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.	0.7	8
9	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.	0.7	10
10	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.	1.8	10
11	Left ventricular systolic dysfunction identification using artificial intelligence-augmented electrocardiogram in cardiac intensive care unit patients. International Journal of Cardiology, 2021, 326, 114-123.	0.8	25
12	Vascular Aging Detected by Peripheral Endothelial Dysfunction Is Associated With ECGâ€Đerived Physiological Aging. Journal of the American Heart Association, 2021, 10, e018656.	1.6	25
13	Artificial intelligence-enhanced electrocardiography in cardiovascular disease management. Nature Reviews Cardiology, 2021, 18, 465-478.	6.1	298
14	Electrocardiogram screening for aortic valve stenosis using artificial intelligence. European Heart Journal, 2021, 42, 2885-2896.	1.0	95
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	The 12-lead electrocardiogram as a biomarker of biological age. European Heart Journal Digital Health, 2021, 2, 379-389.	0.7	30
17	Artificial intelligenceâ€“enabled electrocardiograms for identification of patients with low ejection fraction: a pragmatic, randomized clinical trial. Nature Medicine, 2021, 27, 815-819.	15.2	154
18	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.	3.0	65

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19	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.	0.5	18
20	Deep neural networks learn by using human-selected electrocardiogram features and novel features. European Heart Journal Digital Health, 2021, 2, 446-455.	0.7	9
21	Coronary Microvascular Dysfunction and the Risk of Atrial Fibrillation From an Artificial Intelligence-Enabled Electrocardiogram. Circulation: Arrhythmia and Electrophysiology, 2021, 14, e009947.	2.1	4
22	Rapid Exclusion of COVID Infection With the Artificial Intelligence Electrocardiogram. Mayo Clinic Proceedings, 2021, 96, 2081-2094.	1.4	15
23	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.	0.5	3
24	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.	1.2	21
25	Use of Artificial Intelligence Tools Across Different Clinical Settings. Circulation: Cardiovascular Quality and Outcomes, 2021, 14, e008153.	0.9	6
26	Artificial Intelligence-Enabled Electrocardiography to Screen Patients with Dilated Cardiomyopathy. American Journal of Cardiology, 2021, 155, 121-127.	0.7	15
27	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.	0.8	4
28	Application of artificial intelligence to the electrocardiogram. European Heart Journal, 2021, 42, 4717-4730.	1.0	96
29	Detection of hypertrophic cardiomyopathy by an artificial intelligence electrocardiogram in children and adolescents. International Journal of Cardiology, 2021, 340, 42-47.	0.8	35
30	Mortality risk stratification using artificial intelligence-augmented electrocardiogram in cardiac intensive care unit patients. European Heart Journal: Acute Cardiovascular Care, 2021, 10, 532-541.	0.4	11
31	Electrocardiography-Based Artificial Intelligence Algorithm Aids in Prediction of Long-term Mortality After Cardiac Surgery. Mayo Clinic Proceedings, 2021, 96, 3062-3070.	1.4	5
32	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.	1.3	3
33	Implementation of a fully remote randomized clinical trial with cardiac monitoring. Communications Medicine, 2021, 1, .	1.9	4
34	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.	1.2	50
35	Clinical trial design data for electrocardiogram artificial intelligence-guided screening for low ejection fraction (EAGLE). Data in Brief, 2020, 28, 104894.	0.5	9
36	Digital Health and the Care of the Patient With Arrhythmia. Circulation: Arrhythmia and Electrophysiology, 2020, 13, e007953.	2.1	20

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37	An AI-ECG algorithm for atrial fibrillation risk: steps towards clinical implementation â€“ Authors' reply. Lancet, The, 2020, 396, 236-237.	6.3	5
38	Artificial Intelligenceâ€“Electrocardiography to Predict Incident Atrial Fibrillation. Circulation: Arrhythmia and Electrophysiology, 2020, 13, e009355.	2.1	68
39	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.	2.1	81
40	A comprehensive artificial intelligenceâ€“enabled electrocardiogram interpretation program. Cardiovascular Digital Health Journal, 2020, 1, 62-70.	0.5	33
41	Survey of current perspectives on consumer-available digital health devices for detecting atrial fibrillation. Cardiovascular Digital Health Journal, 2020, 1, 21-29.	0.5	28
42	Artificial Intelligence ECG to Detect Left Ventricular Dysfunction in COVID-19. Mayo Clinic Proceedings, 2020, 95, 2464-2466.	1.4	21
43	Artificial Intelligence in Cardiology: Present and Future. Mayo Clinic Proceedings, 2020, 95, 1015-1039.	1.4	127
44	Artificial Intelligence and Machine Learning in Arrhythmias and Cardiac Electrophysiology. Circulation: Arrhythmia and Electrophysiology, 2020, 13, e007952.	2.1	96
45	Detection of Hypertrophic Cardiomyopathy Using a Convolutional Neural Network-Enabled Electrocardiogram. Journal of the American College of Cardiology, 2020, 75, 722-733.	1.2	183
46	Assessing and Mitigating Bias in Medical Artificial Intelligence. Circulation: Arrhythmia and Electrophysiology, 2020, 13, e007988.	2.1	116
47	Digital health innovation in cardiology. Cardiovascular Digital Health Journal, 2020, 1, 6-8.	0.5	6
48	Use of Artificial Intelligence Electrocardiography to Predict Atrial Fibrillation (AF) in Patients with Chronic Lymphocytic Leukemia (CLL). Blood, 2020, 136, 50-51.	0.6	7
49	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.	6.3	794
50	Age and Sex Estimation Using Artificial Intelligence From Standard 12-Lead ECGs. Circulation: Arrhythmia and Electrophysiology, 2019, 12, e007284.	2.1	213
51	Pragmatic considerations for fostering reproducible research in artificial intelligence. Npj Digital Medicine, 2019, 2, 42.	5.7	27
52	Prospective validation of a deep learning electrocardiogram algorithm for the detection of left ventricular systolic dysfunction. Journal of Cardiovascular Electrophysiology, 2019, 30, 668-674.	0.8	98
53	Development and Validation of a Deep-Learning Model to Screen for Hyperkalemia From the Electrocardiogram. JAMA Cardiology, 2019, 4, 428.	3.0	188
54	Screening for cardiac contractile dysfunction using an artificial intelligenceâ€“enabled electrocardiogram. Nature Medicine, 2019, 25, 70-74.	15.2	686

#	ARTICLE	IF	CITATIONS
55	Errors of Classification With Potassium Blood Testing: The Variability and Repeatability of Critical Clinical Tests. Mayo Clinic Proceedings, 2018, 93, 566-572.	1.4	10
56	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.	1.1	28
57	Noninvasive blood potassium measurement using signal-processed, single-lead ecg acquired from a handheld smartphone. Journal of Electrocardiology, 2017, 50, 620-625.	0.4	33
58	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, .	2.1	11
59	Novel Bloodless Potassium Determination Using a Signalâ€Processed Singleâ€Lead ECG. Journal of the American Heart Association, 2016, 5, .	1.6	59
60	Identification of Concealed and Manifest Long QT Syndrome Using a Novel T Wave Analysis Program. Circulation: Arrhythmia and Electrophysiology, 2016, 9, .	2.1	21
61	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.	0.8	8
62	Studying accelerated cardiovascular ageing in Russian adults through a novel deep-learning ECG biomarker. Wellcome Open Research, 0, 6, 12.	0.9	8
63	Machine learning aids clinical decision making in patients presenting with angina and non-obstructive coronary artery disease. European Heart Journal Digital Health, 0, , .	0.7	3