Paul A Friedman, Fhrs

List of Publications by Year
in descending order

241 papers	9,921 citations	41258 49 h-index	46693 89 g-index

265 all docs	265 docs citations	265 times ranked	7977 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.	6.3	794
2	Screening for cardiac contractile dysfunction using an artificial intelligenceâ€“enabled electrocardiogram. Nature Medicine, 2019, 25, 70-74.	15.2	686
3	Management and Outcome of Permanent Pacemaker and Implantable Cardioverter-Defibrillator Infections. Journal of the American College of Cardiology, 2007, 49, 1851-1859.	1.2	625
4	Percutaneous Implantation of an Entirely Intracardiac Leadless Pacemaker. New England Journal of Medicine, 2015, 373, 1125-1135.	13.9	410
5	Urgent Guidance for Navigating and Circumventing the QTc-Prolonging and Torsadogenic Potential of Possible Pharmacotherapies for Coronavirus Disease 19 (COVID-19). Mayo Clinic Proceedings, 2020, 95, 1213-1221.	1.4	332
6	Artificial intelligence-enhanced electrocardiography in cardiovascular disease management. Nature Reviews Cardiology, 2021, 18, 465-478.	6.1	298
7	Risk Factor Analysis of Permanent Pacemaker Infection. Clinical Infectious Diseases, 2007, 45, 166-173.	2.9	261
8	Age and Sex Estimation Using Artificial Intelligence From Standard 12-Lead ECGs. Circulation: Arrhythmia and Electrophysiology, 2019, 12, e007284.	2.1	213
9	Development and Validation of a Deep-Learning Model to Screen for Hyperkalemia From the Electrocardiogram. JAMA Cardiology, 2019, 4, 428.	3.0	188
10	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
11	Cardiac Pacemakers: Function, Troubleshooting, and Management. Journal of the American College of Cardiology, 2017, 69, 189-210.	1.2	177
12	Temporal trends in permanent pacemaker implantation: A population-based study. American Heart Journal, 2008, 155, 896-903.	1.2	165
13	Impact of timing of device removal on mortality in patients with cardiovascular implantable electronic device infections. Heart Rhythm, 2011, 8, 1678-1685.	0.3	161
14	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
15	Global Right Atrial Mapping of Human Atrial Flutter: The Presence of Posteromedial (Sinus Venosa) Tj ETQq1 1 0.784314 rgBT /Overlo	1.6	129
16	Artificial Intelligence in Cardiology: Present and Future. Mayo Clinic Proceedings, 2020, 95, 1015-1039.	1.4	127
17	Assessing and Mitigating Bias in Medical Artificial Intelligence. Circulation: Arrhythmia and Electrophysiology, 2020, 13, e007988.	2.1	116
18	Frequency of Permanent Pacemaker or Implantable Cardioverter-Defibrillator Infection in Patients with Gram-Negative Bacteremia. Clinical Infectious Diseases, 2006, 43, 731-736.	2.9	100

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19	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
20	Burden of Arrhythmia in Pregnancy. Circulation, 2017, 135, 619-621.	1.6	97
21	Artificial Intelligence and Machine Learning in Arrhythmias and Cardiac Electrophysiology. Circulation: Arrhythmia and Electrophysiology, 2020, 13, e007952.	2.1	96
22	Application of artificial intelligence to the electrocardiogram. European Heart Journal, 2021, 42, 4717-4730.	1.0	96
23	Electrocardiogram screening for aortic valve stenosis using artificial intelligence. European Heart Journal, 2021, 42, 2885-2896.	1.0	95
24	Sleep-Disordered Breathing and Excessive Daytime Sleepiness in Patients With Atrial Fibrillation. Chest, 2012, 141, 967-973.	0.4	87
25	Stroke or Transient Ischemic Attack in Patients With Transvenous Pacemaker or Defibrillator and Echocardiographically Detected Patent Foramen Ovale. Circulation, 2013, 128, 1433-1441.	1.6	87
26	Trends in Use and Adverse Outcomes Associated with Transvenous Lead Removal in the United States. Circulation, 2015, 132, 2363-2371.	1.6	84
27	Role of 18F-FDG PET/CT in the diagnosis of cardiovascular implantable electronic device infections: A meta-analysis. Journal of Nuclear Cardiology, 2019, 26, 958-970.	1.4	84
28	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
29	Artificial Intelligenceâ€"Enabled Assessment of the Heart Rate Corrected QT Interval Using a Mobile Electrocardiogram Device. Circulation, 2021, 143, 1274-1286.	1.6	75
30	Differential outcome of cardiac resynchronization therapy in ischemic cardiomyopathy and idiopathic dilated cardiomyopathy. Heart Rhythm, 2011, 8, 377-382.	0.3	74
31	Troubleshooting Implanted Cardioverter Defibrillator Sensing Problems I. Circulation: Arrhythmia and Electrophysiology, 2014, 7, 1237-1261.	2.1	72
32	Safety and Outcomes of Magnetic Resonance Imaging in Patients with Abandoned Pacemaker and Defibrillator Leads. PACE - Pacing and Clinical Electrophysiology, 2014, 37, 1284-1290.	0.5	72
33	Advances and Future Directions inÂCardiacÂPacemakers. Journal of the American College of Cardiology, 2017, 69, 211-235.	1.2	69
34	Trends of Cardiovascular Implantable Electronic Device Infection in 3 Decades. JACC: Clinical Electrophysiology, 2019, 5, 1071-1080.	1.3	69
35	Safety of magnetic resonance imaging in patients with legacy pacemakers and defibrillators and abandoned leads. Heart Rhythm, 2018, 15, 228-233.	0.3	68
36	Effective Use of Percutaneous Stellate Ganglion Blockade in Patients With Electrical Storm. Circulation: Arrhythmia and Electrophysiology, 2019, 12, e007118.	2.1	68

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37	Artificial Intelligenceâ€“Electrocardiography to Predict Incident Atrial Fibrillation. Circulation: Arrhythmia and Electrophysiology, 2020, 13, e009355.	2.1	68
38	Is Sinus Node Modification Appropriate for Inappropriate Sinus Tachycardia with Features of Postural Orthostatic Tachycardia Syndrome?. PACE - Pacing and Clinical Electrophysiology, 2001, 24, 217-230.	0.5	65
39	Ischemic Stroke Risk in Patients WithÂNonvalvularÂAtrial Fibrillation. Journal of the American College of Cardiology, 2019, 74, 3050-3065.	1.2	65
40	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
41	Intra-Atrial Conduction Block Along the Mitral Valve Annulus During Accessory Pathway Ablation: Evidence for a Left Atrial "Isthmus". Journal of Cardiovascular Electrophysiology, 2001, 12, 744-749.	0.8	60
42	Percutaneous Epicardial Left Atrial Appendage Closure: Preliminary Results of an Electrogram Guided Approach. Journal of Cardiovascular Electrophysiology, 2009, 20, 908-915.	0.8	60
43	Novel Bloodless Potassium Determination Using a Signalâ€Processed Singleâ€Lead ECG. Journal of the American Heart Association, 2016, 5, .	1.6	59
44	Incidence of Idiopathic Ventricular Arrhythmias. Circulation: Arrhythmia and Electrophysiology, 2017, 10, .	2.1	57
45	Incidence and outcomes of systemic infections in patients with leadless pacemakers: Data from the Micra IDE study. PACE - Pacing and Clinical Electrophysiology, 2019, 42, 1105-1110.	0.5	56
46	Role of Programmed Ventricular Stimulation and Implantable Cardioverter Defibrillators in Patients with Idiopathic Dilated Cardiomyopathy and Syncope. PACE - Pacing and Clinical Electrophysiology, 2001, 24, 1623-1630.	0.5	55
47	Gender, Racial, and Health Insurance Differences in the Trend of Implantable Cardioverterâ€Defibrillator (<scp>ICD</scp>) Utilization: A United States Experience Over the Last Decade. Clinical Cardiology, 2016, 39, 63-71.	0.7	55
48	Generalizability of the CASTLE-AF trial: Catheter ablation for patients with atrial fibrillation and heart failure in routine practice. Heart Rhythm, 2020, 17, 1057-1065.	0.3	54
49	Clinical Impact of Residual Leaks Following Left Atrial Appendage Occlusion. JACC: Clinical Electrophysiology, 2022, 8, 766-778.	1.3	54
50	Outcomes After Implantable Cardioverter-Defibrillator Generator Replacement for Primary Prevention of Sudden Cardiac Death. Circulation: Arrhythmia and Electrophysiology, 2016, 9, e003283.	2.1	53
51	Outcomes in Patients With Cardiovascular Implantable Electronic Devices and Bacteremia Caused by Gram-Positive Cocci Other Than Staphylococcus Aureus. Circulation: Arrhythmia and Electrophysiology, 2010, 3, 639-645.	2.1	51
52	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
53	â€œPower-on resetsâ€•in cardiac implantable electronic devices during magnetic resonance imaging. Heart Rhythm, 2015, 12, 540-544.	0.3	49
54	Marked Up-Regulation of ACE2 in Hearts of Patients With Obstructive Hypertrophic Cardiomyopathy: Implications for SARS-CoV-2â€“Mediated COVID-19. Mayo Clinic Proceedings, 2020, 95, 1354-1368.	1.4	49

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55	Novel mapping techniques for cardiac electrophysiology. British Heart Journal, 2002, 87, 575-582.	2.2	42
56	A prospective randomized trial of single- or dual-chamber implantable cardioverter-defibrillators to minimize inappropriate shock risk in primary sudden cardiac death prevention. Europace, 2014, 16, 1460-1468.	0.7	42
57	Predicting Risk of Endovascular Device Infection in Patients With Staphylococcus aureus Bacteremia (PREDICT-SAB). Circulation: Arrhythmia and Electrophysiology, 2015, 8, 137-144.	2.1	42
58	Percutaneous Epicardial Access for Mapping and Ablation Is Feasible in Patients With Prior Cardiac Surgery, Including Coronary Bypass Surgery. Circulation: Arrhythmia and Electrophysiology, 2015, 8, 94-101.	2.1	40
59	Artificial Intelligenceâ€“Enhanced Electrocardiogram for the Early Detection of Cardiac Amyloidosis. Mayo Clinic Proceedings, 2021, 96, 2768-2778.	1.4	40
60	Magnetic Resonance Imaging in Patients with Recently Implanted Pacemakers. PACE - Pacing and Clinical Electrophysiology, 2013, 36, 1090-1095.	0.5	39
61	Electrocardiographic and Echocardiographic predictors of paroxysmal atrial fibrillation detected after ischemic stroke. BMC Cardiovascular Disorders, 2016, 16, 209.	0.7	39
62	Noninvasive potassium determination using a mathematically processed ECG: Proof of concept for a novel â€œblood-less, blood testâ€• Journal of Electrocardiology, 2015, 48, 12-18.	0.4	38
63	Catheter Ablation Related Mitral Valve Injury: The Importance of Early Recognition and Rescue Mitral Valve Repair. Journal of Cardiovascular Electrophysiology, 2014, 25, 971-975.	0.8	37
64	Impact of Implanted Recalled Sprint Fidelis Lead on Patient Mortality. Journal of the American College of Cardiology, 2011, 58, 278-283.	1.2	36
65	Artificial Intelligence (AI)-Empowered Echocardiography Interpretation: A State-of-the-Art Review. Journal of Clinical Medicine, 2021, 10, 1391.	1.0	36
66	External validation of a deep learning electrocardiogram algorithm to detect ventricular dysfunction. International Journal of Cardiology, 2021, 329, 130-135.	0.8	36
67	Detection of hypertrophic cardiomyopathy by an artificial intelligence electrocardiogram in children and adolescents. International Journal of Cardiology, 2021, 340, 42-47.	0.8	35
68	Risk of <scp>QTc</scp> prolongation among cancer patients treated with tyrosine kinase inhibitors. International Journal of Cancer, 2020, 147, 3160-3167.	2.3	34
69	Wearables, telemedicine, and artificial intelligence in arrhythmias and heart failure: Proceedings of the European Society of Cardiology Cardiovascular Round Table. Europace, 2022, 24, 1372-1383.	0.7	34
70	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
71	A comprehensive artificial intelligenceâ€“enabled electrocardiogram interpretation program. Cardiovascular Digital Health Journal, 2020, 1, 62-70.	0.5	33
72	Defibrillators. Circulation, 2016, 134, 1390-1404.	1.6	32

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73	Statins decrease leptin expression in human white adipocytes. Physiological Reports, 2018, 6, e13566.	0.7	31
74	The 12-lead electrocardiogram as a biomarker of biological age. European Heart Journal Digital Health, 2021, 2, 379-389.	0.7	30
75	Usefulness of Sonication of Cardiovascular Implantable Electronic Devices to Enhance Microbial Detection. American Journal of Cardiology, 2015, 115, 912-917.	0.7	29
76	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
77	Pragmatic considerations for fostering reproducible research in artificial intelligence. Npj Digital Medicine, 2019, 2, 42.	5.7	27
78	Efficacy and Safety of Transvenous Lead Extraction in the Device Laboratory andÂOperating Room Guided by a NovelÂRisk Stratification Scheme. JACC: Clinical Electrophysiology, 2019, 5, 174-182.	1.3	27
79	Troubleshooting Implantable Cardioverter-Defibrillator Sensing Problems II. Circulation: Arrhythmia and Electrophysiology, 2015, 8, 212-220.	2.1	26
80	Novel Quantitative Analytical Approaches for Rotor Identification and Associated Implications for Mapping. IEEE Transactions on Biomedical Engineering, 2018, 65, 273-281.	2.5	26
81	Utility of 30-Day Continuous Ambulatory Monitoring to Identify Patients With Delayed Occurrence of Atrioventricular Block After Transcatheter Aortic Valve Replacement. Circulation: Cardiovascular Interventions, 2019, 12, e007635.	1.4	26
82	The year in cardiovascular medicine 2021: digital health and innovation. European Heart Journal, 2022, 43, 271-279.	1.0	26
83	Multicenter study of the safety and effects of magnetic resonance imaging in patients with coronary sinus left ventricular pacing leads. Heart Rhythm, 2015, 12, 345-349.	0.3	25
84	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
85	Vascular Aging Detected by Peripheral Endothelial Dysfunction Is Associated With ECGâ€Derived Physiological Aging. Journal of the American Heart Association, 2021, 10, e018656.	1.6	25
86	The Noncoronary Cusp as a Site for Successful Ablation of Accessory Pathways: Electrogram Characteristics in Three Cases. Journal of Cardiovascular Electrophysiology, 2011, 22, no-no.	0.8	24
87	Realâ€world experience with leadless cardiac pacing. PACE - Pacing and Clinical Electrophysiology, 2019, 42, 366-373.	0.5	24
88	Effects of a rate smoothing algorithm for prevention of ventricular arrhythmias: Results of the Ventricular Arrhythmia Suppression Trial (VAST). Heart Rhythm, 2006, 3, 573-580.	0.3	23
89	Electrocardiographic Predictors of Torsadogenic Risk During Dofetilide or Sotalol Initiation: Utility of a Novel T Wave Analysis Program. Cardiovascular Drugs and Therapy, 2015, 29, 433-441.	1.3	23
90	Safety and Efficacy of Cryoablation in Patients With Ventricular Arrhythmias Originating From the Para-Hisian Region. JACC: Clinical Electrophysiology, 2018, 4, 366-373.	1.3	22

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91	Identification of Concealed and Manifest Long QT Syndrome Using a Novel T Wave Analysis Program. Circulation: Arrhythmia and Electrophysiology, 2016, 9, .	2.1	21
92	Artificial Intelligence ECG to Detect Left Ventricular Dysfunction in COVID-19. Mayo Clinic Proceedings, 2020, 95, 2464-2466.	1.4	21
93	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
94	The Impact of Atrial Prevention and Termination Therapies on Atrial Tachyarrhythmia Burden in Patients Receiving a Dual-Chamber Defibrillator for Ventricular Arrhythmias. Journal of Interventional Cardiac Electrophysiology, 2004, 10, 103-110.	0.6	20
95	Detecting cardiomyopathies in pregnancy and the postpartum period with an electrocardiogram-based deep learning model. European Heart Journal Digital Health, 2021, 2, 586-596.	0.7	20
96	Localization of the Origin of Arrhythmias for Ablation: From Electrocardiography to Advanced Endocardial Mapping Systems. Journal of Cardiovascular Electrophysiology, 2001, 12, 1309-1325.	0.8	19
97	Artificial Intelligence-Enabled ECG to Identify Silent Atrial Fibrillation in Embolic Stroke of Unknown Source. Journal of Stroke and Cerebrovascular Diseases, 2021, 30, 105998.	0.7	19
98	Distinguishing Ventricular Arrhythmia Originating from the Right Coronary Cusp, Peripulmonic Valve Area, and the Right Ventricular Outflow Tract: Utility of Lead I. Journal of Cardiovascular Electrophysiology, 2014, 25, 404-410.	0.8	18
99	Leadless Pacemakers â€“ Implant, Explant and Long-Term Safety and Efficacy Data. Journal of Atrial Fibrillation, 2017, 10, 1581.	0.5	18
100	Impact of sedation vs. general anaesthesia on percutaneous epicardial access safety and procedural outcomes. Europace, 2018, 20, 329-336.	0.7	18
101	Diagnostic and therapeutic value of implantable loop recorder: A tertiary care center experience. PACE - Pacing and Clinical Electrophysiology, 2019, 42, 38-45.	0.5	18
102	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
103	Left Atrial Appendage Exclusion for Atrial Fibrillation. Cardiology Clinics, 2014, 32, 601-625.	0.9	17
104	Mortality and Cerebrovascular Events After Heart Rhythm Disorder Management Procedures. Circulation, 2018, 137, 24-33.	1.6	17
105	The extravascular implantable cardioverterâ€defibrillator: The pivotal study plan. Journal of Cardiovascular Electrophysiology, 2021, 32, 2371-2378.	0.8	17
106	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
107	Ablation of Noninducible Idiopathic Left Ventricular Tachycardia Using a Noncontact Map Acquired from a Premature Complex with Tachycardia Morphology. PACE - Pacing and Clinical Electrophysiology, 2000, 23, 1311-1314.	0.5	16
108	Risk of Appropriate Therapy and Death Before Therapy After Implantable Cardioverter-Defibrillator Generator Replacement. Circulation: Arrhythmia and Electrophysiology, 2018, 11, e006155.	2.1	16

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109	Recurrent cryptogenic stroke: A potential role for an artificial intelligenceâ€“enabled electrocardiogram?. HeartRhythm Case Reports, 2020, 6, 202-205.	0.2	16
110	Anatomic Approach to TransseptalÂPuncture for StructuralÂHeartÂInterventions. JACC: Cardiovascular Interventions, 2021, 14, 1509-1522.	1.1	16
111	Catheter Ablation of Mitral Isthmus Ventricular Tachycardia Using Electroanatomically Guided Linear Lesions. Journal of Cardiovascular Electrophysiology, 2000, 11, 466-471.	0.8	15
112	Incidence, patterns, and outcomes after transvenous cardiac device lead macrodislodgment: Insights from a population-based study. Heart Rhythm, 2019, 16, 140-147.	0.3	15
113	Cost Effectiveness of an Electrocardiographic Deep Learning Algorithm to Detect Asymptomatic Left Ventricular Dysfunction. Mayo Clinic Proceedings, 2021, 96, 1835-1844.	1.4	15
114	Rapid Exclusion of COVID Infection With the Artificial Intelligence Electrocardiogram. Mayo Clinic Proceedings, 2021, 96, 2081-2094.	1.4	15
115	Artificial Intelligence-Enabled Electrocardiography to Screen Patients with Dilated Cardiomyopathy. American Journal of Cardiology, 2021, 155, 121-127.	0.7	15
116	Artificial Intelligenceâ€“Augmented Electrocardiogram Detection of Left Ventricular Systolic Dysfunction in the General Population. Mayo Clinic Proceedings, 2021, 96, 2576-2586.	1.4	15
117	The Pericardial Space: Obtaining Access and an Approach to Fluoroscopic Anatomy. Cardiac Electrophysiology Clinics, 2010, 2, 9-23.	0.7	14
118	Outcomes of Combined Endocardial-Epicardial Ablation Compared With Endocardial Ablation Alone in Patients Who Undergo Epicardial Access. American Journal of Cardiology, 2016, 118, 842-848.	0.7	14
119	Outcomes of Transvenous Lead Extraction for Cardiovascular Implantable Electronic Device Infections in Patients With Prosthetic Heart Valves. Circulation: Arrhythmia and Electrophysiology, 2016, 9, .	2.1	14
120	Safety of thoracic magnetic resonance imaging for patients with pacemakers and defibrillators. Heart Rhythm, 2019, 16, 1645-1651.	0.3	14
121	His-bundle pacing: impact of social media. Europace, 2019, 21, 1445-1450.	0.7	14
122	Clinical Presentation, Management, and Outcomes of Cardiovascular Implantable Electronic Device Infections Due to Gram-Negative Versus Gram-Positive Bacteria. Mayo Clinic Proceedings, 2019, 94, 1268-1277.	1.4	14
123	Non-Surgical Left Atrial Appendage Closure for Stroke Prevention in Atrial Fibrillation. Journal of Cardiovascular Electrophysiology, 2011, 22, 1184-1191.	0.8	13
124	Novel Multiscale Frequency Approach to Identify the Pivot Point of the Rotor1. Journal of Medical Devices, Transactions of the ASME, 2016, 10, .	0.4	13
125	Management of cardiac implantable electronic devices in the presence of left ventricular assist devices. Heart Rhythm, 2018, 15, 1089-1096.	0.3	13
126	Utilization and procedural adverse outcomes associated with Watchman device implantation. Europace, 2021, 23, 247-253.	0.7	13

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127	Feasibility of visualizing higher regions of Shannon entropy in atrial fibrillation patients. , 2015, 2015, 4499-502.		12
128	Real-Time Pathophysiologic Correlates of Left Atrial Appendage Thrombus in Patients Who Underwent Transesophageal-Guided Electrical Cardioversion for Atrial Fibrillation. American Journal of Cardiology, 2018, 121, 1540-1547.	0.7	12
129	Stellate ganglion block and cardiac sympathetic denervation in patients with inappropriate sinus tachycardia. Journal of Cardiovascular Electrophysiology, 2019, 30, 2920-2928.	0.8	12
130	Molecular Approach to Diagnosis of Cardiovascular Implantable Electronic Device Infection. Clinical Infectious Diseases, 2020, 70, 898-906.	2.9	12
131	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
132	Electrophysiologic effects and outcomes of sympatholysis in patients with recurrent ventricular arrhythmia and structural heart disease. Journal of Cardiovascular Electrophysiology, 2019, 30, 1499-1507.	0.8	11
133	Postoperative opioid prescription patterns and new opioid refills following cardiac implantable electronic device procedures. Heart Rhythm, 2019, 16, 1841-1848.	0.3	11
134	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
135	Ablation for Atrial Fibrillation: Is the Cure at Hand?. Journal of Cardiovascular Electrophysiology, 2001, 12, 909-911.	0.8	10
136	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
137	Using ensemble of ensemble machine learning methods to predict outcomes of cardiac resynchronization. Journal of Cardiovascular Electrophysiology, 2021, 32, 2504-2514.	0.8	10
138	First-in-Human Use of a Novel Live 3DÂIntracardiac Echo Probe to Guide LeftÂAtrial Appendage Closure. JACC: Cardiovascular Interventions, 2021, 14, 2407-2409.	1.1	10
139	Detection of Left Atrial Myopathy Using Artificial Intelligenceâ€“Enabled Electrocardiography. Circulation: Heart Failure, 2022, 15, CIRCHEARTFAILURE120008176.	1.6	10
140	A realâ€world experience of atrioventricular synchronous pacing with leadless ventricular pacemakers. Journal of Cardiovascular Electrophysiology, 2022, 33, 982-993.	0.8	10
141	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
142	Cardiac Device Complications in the Cognitively Impaired. PACE - Pacing and Clinical Electrophysiology, 2013, 36, 1061-1067.	0.5	9
143	Percutaneous Epicardial Pacing Using a Novel Insulated Multi-Electrode Lead. JACC: Clinical Electrophysiology, 2015, 1, 273-283.	1.3	9
144	Radiolucent implantable electrocardiographic monitoring device based on graphene. Carbon, 2019, 152, 946-953.	5.4	9

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145	Comparative outcomes of subcutaneous and transvenous cardioverter-defibrillators. Chinese Medical Journal, 2019, 132, 631-637.	0.9	9
146	Clinical trial design data for electrocardiogram artificial intelligence-guided screening for low ejection fraction (EAGLE). Data in Brief, 2020, 28, 104894.	0.5	9
147	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
148	Radial strain imaging-guided lead placement for improving response to cardiac resynchronization therapy in patients with ischaemic cardiomyopathy: the Raise CRT trial. Europace, 2022, 24, 835-844.	0.7	9
149	Leak closure following left atrial appendage exclusion procedures: A multicenter registry. Catheterization and Cardiovascular Interventions, 2022, 99, 1867-1876.	0.7	9
150	Sudden death and its risk factors after atrioventricular junction ablation and pacemaker implantation in patients with atrial fibrillation. Clinical Cardiology, 2017, 40, 18-25.	0.7	8
151	Magnetic Resonance Imaging in Nondependent Pacemaker Patients with Pacemakers and Defibrillators with a Nearly Depleted Battery. PACE - Pacing and Clinical Electrophysiology, 2017, 40, 476-481.	0.5	8
152	Studying accelerated cardiovascular ageing in Russian adults through a novel deep-learning ECG biomarker. Wellcome Open Research, 0, 6, 12.	0.9	8
153	The development of the extravascular defibrillator with substernal lead placement: A new Frontier for deviceâ€based treatment of sudden cardiac arrest. Journal of Cardiovascular Electrophysiology, 2022, 33, 1085-1095.	0.8	8
154	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
155	Advances in radiofrequency ablation of the cerebral cortex in primates using the venous system: Improvements for treating epilepsy with catheter ablation technology. Epilepsy Research, 2014, 108, 1026-1031.	0.8	7
156	Left Atrial Appendage Closure for Stroke Prevention. Cardiac Electrophysiology Clinics, 2014, 6, 141-160.	0.7	7
157	Percutaneous ligation of the left atrial appendage results in atrial electrical substrate modification. Translational Research, 2015, 165, 365-373.	2.2	7
158	Ischemic Stroke or Systemic Embolism After Transseptal Ablation of Arrhythmias in Patients With Cardiac Implantable Electronic Devices. Journal of the American Heart Association, 2016, 5, e003163.	1.6	7
159	Kurtosis as a statistical approach to identify the pivot point of the rotor. , 2016, 2016, 497-500.		7
160	Effect of epicardial cooling Peltier elements on atrial conduction: A proof-of-concept study for a potentially painless method of atrial defibrillation. Heart Rhythm, 2016, 13, 2253-2258.	0.3	7
161	A Novel Defibrillation Tool. JACC: Clinical Electrophysiology, 2017, 3, 747-755.	1.3	7
162	Diagnostic evaluation and management of cultureâ€negative cardiovascular implantable electronic device infections. PACE - Pacing and Clinical Electrophysiology, 2018, 41, 933-942.	0.5	7

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163	Outcomes of cardiac resynchronization therapy using left ventricular quadripolar leads. PACE - Pacing and Clinical Electrophysiology, 2018, 41, 912-919.	0.5	7
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