List of Publications by Year in descending order

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	109321	95266
5,420	35	68
citations	h-index	g-index
133	133	5329
docs citations	times ranked	citing authors
	citations 133	5,42035citationsh-index133133

#	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 intelligence–enabled electrocardiogram. Nature Medicine, 2019, 25, 70-74.	30.7	686
3	Genetic Testing for Long-QT Syndrome. Circulation, 2009, 120, 1752-1760.	1.6	319
4	Age and Sex Estimation Using Artificial Intelligence From Standard 12-Lead ECGs. Circulation: Arrhythmia and Electrophysiology, 2019, 12, e007284.	4.8	213
5	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
6	Artificial intelligence–enabled electrocardiograms for identification of patients with low ejection fraction: a pragmatic, randomized clinical trial. Nature Medicine, 2021, 27, 815-819.	30.7	154
7	Artificial Intelligence in Cardiology: Present and Future. Mayo Clinic Proceedings, 2020, 95, 1015-1039.	3.0	127
8	Assessing and Mitigating Bias in Medical Artificial Intelligence. Circulation: Arrhythmia and Electrophysiology, 2020, 13, e007988.	4.8	116
9	Sites of Successful Ventricular Fibrillation Ablation in Bileaflet Mitral Valve Prolapse Syndrome. Circulation: Arrhythmia and Electrophysiology, 2016, 9, .	4.8	101
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	Burden of Arrhythmia in Pregnancy. Circulation, 2017, 135, 619-621.	1.6	97
12	Artificial Intelligence and Machine Learning in Arrhythmias and Cardiac Electrophysiology. Circulation: Arrhythmia and Electrophysiology, 2020, 13, e007952.	4.8	96
13	Psychopathology in Patients with ICDs over Time: Results of a Prospective Study. PACE - Pacing and Clinical Electrophysiology, 2010, 33, 198-208.	1.2	95
14	Electrogram Guidance. JACC: Heart Failure, 2014, 2, 466-473.	4.1	92
15	Trends in Use and Adverse Outcomes Associated with Transvenous Lead Removal in the United States. Circulation, 2015, 132, 2363-2371.	1.6	84
16	Pulsed electric fields for cardiac ablation and beyond: A state-of-the-art review. Heart Rhythm, 2019, 16, 1112-1120.	0.7	77
17	Sleep Apnea and Hypertension: Interactions and Implications for Management. Hypertension, 2008, 51, 605-608.	2.7	73
18	Relevance of Endocavitary Structures in Ablation Procedures for Ventricular Tachycardia. Journal of Cardiovascular Electrophysiology, 2010, 21, 245-254.	1.7	73

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19	Novel Measure of Local Impedance Predicts Catheter–Tissue Contact and Lesion Formation. Circulation: Arrhythmia and Electrophysiology, 2018, 11, e005831.	4.8	71
20	Safety of magnetic resonance imaging in patients with legacy pacemakers and defibrillators and abandoned leads. Heart Rhythm, 2018, 15, 228-233.	0.7	68
21	Effective Use of Percutaneous Stellate Ganglion Blockade in Patients With Electrical Storm. Circulation: Arrhythmia and Electrophysiology, 2019, 12, e007118.	4.8	68
22	Effects of Scatter Radiation on ICD and CRT Function. PACE - Pacing and Clinical Electrophysiology, 2008, 31, 727-732.	1.2	61
23	Characterization of Trans-septal Activation During Septal Pacing. Circulation: Arrhythmia and Electrophysiology, 2013, 6, 1123-1130.	4.8	59
24	Incidence of Idiopathic Ventricular Arrhythmias. Circulation: Arrhythmia and Electrophysiology, 2017, 10, .	4.8	57
25	Fascicular Ventricular Arrhythmias. Circulation: Arrhythmia and Electrophysiology, 2017, 10, .	4.8	53
26	Complication Risk with Pulse Generator Change: Implications When Reacting to a Device Advisory or Recall. PACE - Pacing and Clinical Electrophysiology, 2007, 30, 730-733.	1.2	52
27	"Power-on resets―in cardiac implantable electronic devices during magnetic resonance imaging. Heart Rhythm, 2015, 12, 540-544.	0.7	49
28	The efficacy and safety of electroanatomic mapping-guided endomyocardial biopsy: a systematic review. Journal of Interventional Cardiac Electrophysiology, 2018, 53, 63-71.	1.3	47
29	Association of Serum Magnesium on Mortality in Patients Admitted to the Intensive Cardiac Care Unit. American Journal of Medicine, 2017, 130, 229.e5-229.e13.	1.5	46
30	Irreversible electroporation for catheter-based cardiac ablation: a systematic review of the preclinical experience. Journal of Interventional Cardiac Electrophysiology, 2019, 55, 251-265.	1.3	46
31	Longâ€Term Survival of Patients With Left Ventricular Noncompaction. Journal of the American Heart Association, 2021, 10, e015563.	3.7	45
32	Three-Dimensional Printed Biopatches With Conductive Ink Facilitate Cardiac Conduction When Applied to Disrupted Myocardium. Circulation: Arrhythmia and Electrophysiology, 2019, 12, e006920.	4.8	44
33	Irreversible electroporation for the treatment of cardiac arrhythmias. Expert Review of Cardiovascular Therapy, 2018, 16, 349-360.	1.5	42
34	Elimination of Purkinje Fibers by Electroporation Reduces Ventricular Fibrillation Vulnerability. Journal of the American Heart Association, 2018, 7, e009070.	3.7	40
35	Artificial Intelligence–Enhanced Electrocardiogram for the Early Detection of Cardiac Amyloidosis. Mayo Clinic Proceedings, 2021, 96, 2768-2778.	3.0	40
36	Intrapulmonary Vein Ablation Without Stenosis: A Novel Balloonâ€Based Direct Current Electroporation Approach. Journal of the American Heart Association, 2018, 7, .	3.7	37

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37	External validation of a deep learning electrocardiogram algorithm to detect ventricular dysfunction. International Journal of Cardiology, 2021, 329, 130-135.	1.7	36
38	Combined local impedance and contact force for radiofrequency ablation assessment. Heart Rhythm, 2020, 17, 1371-1380.	0.7	33
39	Critical appraisal of technologies to assess electrical activity during atrial fibrillation: a position paper from the European Heart Rhythm Association and European Society of Cardiology Working Group on eCardiology in collaboration with the Heart Rhythm Society, Asia Pacific Heart Rhythm Society. Latin American Heart Rhythm Society and Computing in Cardiology. Europace. 2022. 24. 313-330.	1.7	33
40	The 12-lead electrocardiogram as a biomarker of biological age. European Heart Journal Digital Health, 2021, 2, 379-389.	1.7	30
41	Electroporation. Circulation: Arrhythmia and Electrophysiology, 2014, 7, 573-575.	4.8	27
42	Electroporation of epicardial autonomic ganglia: Safety and efficacy in mediumâ€ŧerm canine models. Journal of Cardiovascular Electrophysiology, 2019, 30, 607-615.	1.7	27
43	Novel Quantitative Analytical Approaches for Rotor Identification and Associated Implications for Mapping. IEEE Transactions on Biomedical Engineering, 2018, 65, 273-281.	4.2	26
44	Coronary artery injury related to catheter ablation of cardiac arrhythmias: A systematic review. Journal of Cardiovascular Electrophysiology, 2019, 30, 92-101.	1.7	26
45	Identification of a novel presumed cardiac sarcoidosis category for patients at high risk of disease. International Journal of Cardiology, 2021, 335, 66-72.	1.7	26
46	Innervation of the heart: An invisible grid within a black box. Trends in Cardiovascular Medicine, 2016, 26, 245-257.	4.9	25
47	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
48	Vascular Aging Detected by Peripheral Endothelial Dysfunction Is Associated With ECGâ€Đerived Physiological Aging. Journal of the American Heart Association, 2021, 10, e018656.	3.7	25
49	Safety and Efficacy of Cryoablation in Patients With Ventricular Arrhythmias Originating From the Para-Hisian Region. JACC: Clinical Electrophysiology, 2018, 4, 366-373.	3.2	22
50	Outcomes Associated With Catheter Ablation of Ventricular Tachycardia in Patients With Cardiac Sarcoidosis. JAMA Cardiology, 2022, 7, 175.	6.1	22
51	Electromagnetic interference of magnetic field based auto identification technologies in healthcare settings. International Journal of Medical Informatics, 2011, 80, 239-250.	3.3	21
52	Atrial Fibrillation Therapy and HeartÂFailure Hospitalization in AdultsÂWith Tetralogy of Fallot. JACC: Clinical Electrophysiology, 2019, 5, 618-625.	3.2	21
53	The WCT Formula: A novel algorithm designed to automatically differentiate wide-complex tachycardias. Journal of Electrocardiology, 2019, 54, 61-68.	0.9	21
54	Artificial Intelligence ECG to Detect Left Ventricular Dysfunction in COVID-19. Mayo Clinic Proceedings, 2020, 95, 2464-2466.	3.0	21

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55	Utilization of Retrograde Right Bundle Branch Block to Differentiate Atrioventricular Nodal from Accessory Pathway Conduction. Journal of Cardiovascular Electrophysiology, 2009, 20, 751-758.	1.7	20
56	Spectrum of Ventricular Arrhythmias Arising from Papillary Muscle in the Structurally Normal Heart. Cardiac Electrophysiology Clinics, 2016, 8, 555-565.	1.7	20
57	Advances in Cardiac Pacing: Beyond the Transvenous Right Ventricular Apical Lead. Cardiovascular Therapeutics, 2010, 28, 369-379.	2.5	18
58	Diagnostic and therapeutic value of implantable loop recorder: A tertiary care center experience. PACE - Pacing and Clinical Electrophysiology, 2019, 42, 38-45.	1.2	18
59	Right ventricular dysfunction in congenitally corrected transposition of the great arteries and risk of ventricular tachyarrhythmia and sudden death. International Journal of Cardiology, 2018, 258, 83-89.	1.7	17
60	Universal Shelter-in-Place Versus Advanced Automated Contact Tracing and Targeted Isolation. Mayo Clinic Proceedings, 2020, 95, 1898-1905.	3.0	16
61	Electrogramâ€guided endomyocardial biopsy yield in patients with suspected cardiac sarcoidosis and relation to outcomes. Journal of Cardiovascular Electrophysiology, 2021, 32, 2486-2495.	1.7	16
62	Dose-dependent pulmonary vein reconnection in response to adenosine: relevance of atrioventricular block during infusion. Journal of Interventional Cardiac Electrophysiology, 2016, 47, 117-123.	1.3	15
63	Cost Effectiveness of an Electrocardiographic Deep Learning Algorithm to Detect Asymptomatic Left Ventricular Dysfunction. Mayo Clinic Proceedings, 2021, 96, 1835-1844.	3.0	15
64	Rapid Exclusion of COVID Infection With the Artificial Intelligence Electrocardiogram. Mayo Clinic Proceedings, 2021, 96, 2081-2094.	3.0	15
65	Artificial Intelligence-Enabled Electrocardiography to Screen Patients with Dilated Cardiomyopathy. American Journal of Cardiology, 2021, 155, 121-127.	1.6	15
66	Artificial Intelligence–Augmented Electrocardiogram Detection of Left Ventricular Systolic Dysfunction in the General Population. Mayo Clinic Proceedings, 2021, 96, 2576-2586.	3.0	15
67	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.	1.6	14
68	Mortality in Patients With Right Bundleâ€Branch Block in the Absence of Cardiovascular Disease. Journal of the American Heart Association, 2020, 9, e017430.	3.7	14
69	Dorsal pancreas agenesis and polysplenia/heterotaxy syndrome: a novel association with aortic coarctation and a review of the literature. JOP: Journal of the Pancreas, 2007, 8, 433-7.	1.5	14
70	Utilization and procedural adverse outcomes associated with Watchman device implantation. Europace, 2021, 23, 247-253.	1.7	13
71	Stellate ganglion block and cardiac sympathetic denervation in patients with inappropriate sinus tachycardia. Journal of Cardiovascular Electrophysiology, 2019, 30, 2920-2928.	1.7	12
72	Ablation of Refractory Ventricular Tachycardia Using Intramyocardial Needle Delivered Heated Saline-Enhanced Radiofrequency Energy: A First-in-Man Feasibility Trial. Circulation: Arrhythmia and Electrophysiology, 2022, 15, .	4.8	12

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73	Direct Pulmonary Vein Ablation With Stenosis Prevention Therapy. Journal of Cardiovascular Electrophysiology, 2015, 26, 1000-1006.	1.7	11
74	Electrophysiologic effects and outcomes of sympatholysis in patients with recurrent ventricular arrhythmia and structural heart disease. Journal of Cardiovascular Electrophysiology, 2019, 30, 1499-1507.	1.7	11
75	Contact Tracing to Manage COVID-19 Spread—Balancing Personal Privacy and Public Health. Mayo Clinic Proceedings, 2020, 95, 1320-1322.	3.0	11
76	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
77	Endomyocardial biopsy-integrating electrode at the bioptome tip. Therapeutic Advances in Cardiovascular Disease, 2015, 9, 66-69.	2.1	10
78	Cardiac troponin T in patients with cardiac implantable electronic devices undergoing magnetic resonance imaging. Journal of Interventional Cardiac Electrophysiology, 2016, 45, 91-97.	1.3	10
79	Detection of Left Atrial Myopathy Using Artificial Intelligence–Enabled Electrocardiography. Circulation: Heart Failure, 2022, 15, CIRCHEARTFAILURE120008176.	3.9	10
80	Automated detection of low ejection fraction from a one-lead electrocardiogram: application of an Al algorithm to an electrocardiogram-enabled Digital Stethoscope. European Heart Journal Digital Health, 2022, 3, 373-379.	1.7	10
81	The Wide Complex Tachycardia Formula: Derivation and validation data. Data in Brief, 2019, 24, 103924.	1.0	9
82	Frequency and characteristics of exercise-induced second-degree atrioventricular block in patients undergoing stress testing. Journal of Electrocardiology, 2019, 54, 54-60.	0.9	9
83	Catheter Ablation in Patients With Neuroendocrine (Carcinoid) Tumors and CarcinoidÂHeartÂDisease. JACC: Clinical Electrophysiology, 2021, 7, 151-160.	3.2	9
84	Potentially modifiable factors of dofetilide-associated risk of torsades de pointes among hospitalized patients with atrial fibrillation. Journal of Interventional Cardiac Electrophysiology, 2019, 54, 189-196.	1.3	8
85	Defining the substrate for ventricular tachycardia ablation: The impact of rhythm at the time of mapping. Indian Pacing and Electrophysiology Journal, 2020, 20, 147-153.	0.6	8
86	Studying accelerated cardiovascular ageing in Russian adults through a novel deep-learning ECG biomarker. Wellcome Open Research, 0, 6, 12.	1.8	8
87	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
88	Intramural conduction system gradients and electrogram regularity during ventricular fibrillation. Indian Pacing and Electrophysiology Journal, 2018, 18, 195-200.	0.6	7
89	Left sinus of Valsalva—Electroanatomic basis and outcomes with ablation for outflow tract arrhythmias. Journal of Cardiovascular Electrophysiology, 2020, 31, 952-959.	1.7	7
90	Advances in Atrial Fibrillation Ablation. Cardiac Electrophysiology Clinics, 2020, 12, 167-174.	1.7	6

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91	Digital health innovation in cardiology. Cardiovascular Digital Health Journal, 2020, 1, 6-8.	1.3	6
92	Swallow-induced syncope: A case report of atrial tachycardia originating from the SVC. HeartRhythm Case Reports, 2016, 2, 83-87.	0.4	5
93	Mortality After Magnetic Resonance Imaging of the Brain in Patients With Cardiovascular Implantable Devices. Circulation: Arrhythmia and Electrophysiology, 2018, 11, e005480.	4.8	5
94	Feasibility of Performing Radiofrequency Catheter Ablation and Endomyocardial Biopsy in the Same Setting. American Journal of Cardiology, 2018, 121, 1373-1379.	1.6	5
95	Feasibility and safety of percutaneous epicardial access for mapping and ablation for ventricular arrhythmias in patients on oral anticoagulants. Journal of Interventional Cardiac Electrophysiology, 2019, 54, 81-89.	1.3	5
96	Injectable conductive hydrogel restores conduction through ablated myocardium. Journal of Cardiovascular Electrophysiology, 2020, 31, 3293-3301.	1.7	5
97	Effect of Corticosteroid Therapy in Patients With Cardiac Sarcoidosis on Frequency of Venous Thromboembolism. American Journal of Cardiology, 2021, 149, 112-118.	1.6	5
98	Local impedanceâ€guided radiofrequency ablation with standard and high power: Results of a preclinical investigation. Journal of Cardiovascular Electrophysiology, 2021, 32, 2060-2068.	1.7	5
99	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
100	Characteristics and outcomes of ventricular tachycardia and premature ventricular contractions ablation in patients with prior mitral valve surgery. Journal of Cardiovascular Electrophysiology, 2022, 33, 274-283.	1.7	5
101	Reversible vestibular dysfunction secondary to sotalol use. Journal of Interventional Cardiac Electrophysiology, 2010, 27, 17-21.	1.3	4
102	Maintaining Contact for Effective Mapping and Ablation. Circulation: Arrhythmia and Electrophysiology, 2014, 7, 781-784.	4.8	4
103	Artificial Intelligence Applications to Improve Risk Prediction Tools in Electrophysiology. Current Cardiovascular Risk Reports, 2020, 14, 1.	2.0	4
104	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
105	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
106	18F-FDG/13N-ammonia cardiac PET findings in ATTR cardiac amyloidosis. Journal of Nuclear Cardiology, 2023, 30, 726-735.	2.1	4
107	Artificial intelligence—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
108	Subclavian steal and rest pain in a case of brachiocephalic artery occlusion. International Journal of Angiology, 2008, 17, 166-167.	0.6	3

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109	Telocytes express <scp>ANO</scp> â€lâ€encoded chloride channels in canine ventricular myocardium. Journal of Arrhythmia, 2019, 35, 515-521.	1.2	3
110	Long term follow-up of patients with ventricular high rate events detected on remote monitoring of pacemakers. Indian Pacing and Electrophysiology Journal, 2019, 19, 92-97.	0.6	3
111	Prospective evaluation of the utility of magnetic resonance imaging in patients with nonâ€MRlâ€conditional pacemakers and defibrillators. Journal of Cardiovascular Electrophysiology, 2020, 31, 2931-2939.	1.7	3
112	Year in Review in Cardiac Electrophysiology. Circulation: Arrhythmia and Electrophysiology, 2020, 13, e008733.	4.8	3
113	Catheter ablation of ventricular tachycardia in patients with postinfarction left ventricular aneurysm. Journal of Cardiovascular Electrophysiology, 2021, 32, 3156-3164.	1.7	3
114	The Inflammatory Hypothesis of Atrial Fibrillation: Diagnostic Marker, Therapeutic Target, or Innocent Bystander?. Journal of Cardiovascular Electrophysiology, 2015, 26, 641-643.	1.7	2
115	Looking Beyond the Ablation Shore, Treating Atrial Fibrillation From Afar. Journal of the American College of Cardiology, 2015, 65, 876-878.	2.8	2
116	Outcome of combined cryo―and radiofrequencyâ€catheter ablation in patients with supraventricular tachycardias. Journal of Cardiovascular Electrophysiology, 2019, 30, 1960-1966.	1.7	2
117	Year in Review in Cardiac Electrophysiology. Circulation: Arrhythmia and Electrophysiology, 2019, 12, e007142.	4.8	2
118	Prevention of sudden cardiac death beyond the ICD: Have we reached the boundary or are we just burning the surface?. Indian Heart Journal, 2014, 66, S120-S128.	0.5	1
119	Hybrid pericardial suture ligation of the left atrial appendage: A call to study!. Heart Rhythm, 2014, 11, 1860-1861.	0.7	1
120	Identification of valve-related artifact during cardiac mapping. Journal of Interventional Cardiac Electrophysiology, 2017, 50, 159-167.	1.3	1
121	Over, Under, or Just Right? How do we interpret ICD utilization in the modern era?. Indian Pacing and Electrophysiology Journal, 2015, 15, 15-19.	0.6	0
122	Creating Order From Chaos. Circulation: Arrhythmia and Electrophysiology, 2016, 9, .	4.8	0
123	Response by Vaidya et al to Letter Regarding Article, "Burden of Arrhythmia in Pregnancy― Circulation, 2017, 136, 244-245.	1.6	0
124	Fast and the Furious. Circulation: Arrhythmia and Electrophysiology, 2018, 11, e006391.	4.8	0
125	79-Year-Old Man With Shortness of Breath and Fevers. Mayo Clinic Proceedings, 2018, 93, e125-e129.	3.0	0
126	Postablation Atrial Arrhythmias. Cardiac Electrophysiology Clinics, 2019, 11, 573-582.	1.7	0

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127	Incessant tachycardia after successful ablation of an atriofascicular pathway. Europace, 2020, 22, 83-83.	1.7	0
128	Development of a novel ablation hood to prevent systemic embolization of microbubbles and particulate emboli. Journal of Interventional Cardiac Electrophysiology, 2020, 58, 281-288.	1.3	0
129	Improving Reality Virtually: Advent of the Virtual "Digi-ceutical�. Mayo Clinic Proceedings, 2020, 95, 1097-1098.	3.0	0
130	Response to: An alternative way to reach the ventricular surface of the sinuses of valsalva: Antegrade transseptal approach. Journal of Cardiovascular Electrophysiology, 2020, 31, 2260-2260.	1.7	0
131	Abstract 17178: Adverse Events in Endovascular Robotic Assisted Procedures. Circulation, 2018, 138, .	1.6	0