Suraj Kapa

List of Publications by Year
in descending order

65 papers	4,330 citations	201385 27 h-index	133063 59 g-index
65 all docs	65 docs citations	65 times ranked	4367 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 intelligence–enabled electrocardiogram. Nature Medicine, 2019, 25, 70-74.	15.2	686
3	ACCF/HRS/AHA/ASE/HFSA/SCAI/SCCT/SCMR 2013 Appropriate Use Criteria for Implantable Cardioverter-Defibrillators and Cardiac Resynchronization Therapy. Journal of the American College of Cardiology, 2013, 61, 1318-1368.	1.2	315
4	Age and Sex Estimation Using Artificial Intelligence From Standard 12-Lead ECGs. Circulation: Arrhythmia and Electrophysiology, 2019, 12, e007284.	2.1	213
5	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
6	Artificial intelligence–enabled electrocardiograms for identification of patients with low ejection fraction: a pragmatic, randomized clinical trial. Nature Medicine, 2021, 27, 815-819.	15.2	154
7	Contact Electroanatomic Mapping Derived Voltage Criteria for Characterizing Left Atrial Scar in Patients Undergoing Ablation for Atrial Fibrillation. Journal of Cardiovascular Electrophysiology, 2014, 25, 1044-1052.	0.8	130
8	Artificial Intelligence in Cardiology: Present and Future. Mayo Clinic Proceedings, 2020, 95, 1015-1039.	1.4	127
9	Assessing and Mitigating Bias in Medical Artificial Intelligence. Circulation: Arrhythmia and Electrophysiology, 2020, 13, e007988.	2.1	116
10	The Autonomic Nervous System in Cardiac Electrophysiology. Cardiology in Review, 2010, 18, 275-284.	0.6	108
11	Sites of Successful Ventricular Fibrillation Ablation in Bileaflet Mitral Valve Prolapse Syndrome. Circulation: Arrhythmia and Electrophysiology, 2016, 9, .	2.1	101
12	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
13	Burden of Arrhythmia in Pregnancy. Circulation, 2017, 135, 619-621.	1.6	97
14	Artificial Intelligence and Machine Learning in Arrhythmias and Cardiac Electrophysiology. Circulation: Arrhythmia and Electrophysiology, 2020, 13, e007952.	2.1	96
15	Assessing Arrhythmia Burden After Catheter Ablation of Atrial Fibrillation Using an Implantable Loop Recorder: The ABACUS Study. Journal of Cardiovascular Electrophysiology, 2013, 24, 875-881.	0.8	92
16	Electrogram Guidance. JACC: Heart Failure, 2014, 2, 466-473.	1.9	92
17	Trends in Use and Adverse Outcomes Associated with Transvenous Lead Removal in the United States. Circulation, 2015, 132, 2363-2371.	1.6	84
18	Relevance of Endocavitary Structures in Ablation Procedures for Ventricular Tachycardia. Journal of Cardiovascular Electrophysiology, 2010, 21, 245-254.	0.8	73

#	ARTICLE	IF	CITATIONS
19	Safety of magnetic resonance imaging in patients with legacy pacemakers and defibrillators and abandoned leads. Heart Rhythm, 2018, 15, 228-233.	0.3	68
20	The efficacy and safety of electroanatomic mapping-guided endomyocardial biopsy: a systematic review. Journal of Interventional Cardiac Electrophysiology, 2018, 53, 63-71.	0.6	47
21	ECG-gated dual-source CT for detection of left atrial appendage thrombus in patients undergoing catheter ablation for atrial fibrillation. Journal of Interventional Cardiac Electrophysiology, 2010, 29, 75-81.	0.6	41
22	Artificial Intelligence–Enhanced Electrocardiogram for the Early Detection of Cardiac Amyloidosis. Mayo Clinic Proceedings, 2021, 96, 2768-2778.	1.4	40
23	Voltage mapping for delineating inexcitable dense scar in patients undergoing atrial fibrillation ablation: A new end point for enhancing pulmonary vein isolation. Heart Rhythm, 2014, 11, 1904-1911.	0.3	39
24	External validation of a deep learning electrocardiogram algorithm to detect ventricular dysfunction. International Journal of Cardiology, 2021, 329, 130-135.	0.8	36
25	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.	0.7	33
26	Denervation of the extrinsic cardiac sympathetic nervous system as a treatment modality for arrhythmia. Europace, 2017, 19, 1075-1083.	0.7	31
27	The 12-lead electrocardiogram as a biomarker of biological age. European Heart Journal Digital Health, 2021, 2, 379-389.	0.7	30
28	The Disconnect Between the Guidelines, the Appropriate Use Criteria, and Reimbursement Coverage Decisions. Journal of the American College of Cardiology, 2014, 63, 12-14.	1.2	28
29	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
30	Sleep Apnea and Atrial Fibrillation. Journal of the American College of Cardiology, 2009, 54, 2084-2086.	1.2	26
31	Identification of a novel presumed cardiac sarcoidosis category for patients at high risk of disease. International Journal of Cardiology, 2021, 335, 66-72.	0.8	26
32	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
33	Vascular Aging Detected by Peripheral Endothelial Dysfunction Is Associated With ECG–Derived Physiological Aging. Journal of the American Heart Association, 2021, 10, e018656.	1.6	25
34	Artificial Intelligence ECG to Detect Left Ventricular Dysfunction in COVID-19. Mayo Clinic Proceedings, 2020, 95, 2464-2466.	1.4	21
35	Spectrum of Ventricular Arrhythmias Arising from Papillary Muscle in the Structurally Normal Heart. Cardiac Electrophysiology Clinics, 2016, 8, 555-565.	0.7	20
36	Mortality and Cerebrovascular Events After Heart Rhythm Disorder Management Procedures. Circulation, 2018, 137, 24-33.	1.6	17

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37	Electrogram‑guided endomyocardial biopsy yield in patients with suspected cardiac sarcoidosis and relation to outcomes. Journal of Cardiovascular Electrophysiology, 2021, 32, 2486-2495.	0.8	16
38	Cost Effectiveness of an Electrocardiographic Deep Learning Algorithm to Detect Asymptomatic Left Ventricular Dysfunction. Mayo Clinic Proceedings, 2021, 96, 1835-1844.	1.4	15
39	Rapid Exclusion of COVID Infection With the Artificial Intelligence Electrocardiogram. Mayo Clinic Proceedings, 2021, 96, 2081-2094.	1.4	15
40	Artificial Intelligence-Enabled Electrocardiography to Screen Patients with Dilated Cardiomyopathy. American Journal of Cardiology, 2021, 155, 121-127.	0.7	15
41	Artificial Intelligence‑Augmented Electrocardiogram Detection of Left Ventricular Systolic Dysfunction in the General Population. Mayo Clinic Proceedings, 2021, 96, 2576-2586.	1.4	15
42	Atrial Fibrillation: Focal or Reentrant or Both?. Circulation: Arrhythmia and Electrophysiology, 2009, 2, 345-348.	2.1	14
43	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
44	Endomyocardial biopsy-integrating electrode at the bioptome tip. Therapeutic Advances in Cardiovascular Disease, 2015, 9, 66-69.	1.0	10
45	Detection of Left Atrial Myopathy Using Artificial Intelligence‑Enabled Electrocardiography. Circulation: Heart Failure, 2022, 15, CIRCHEARTFAILURE120008176.	1.6	10
46	Studying accelerated cardiovascular ageing in Russian adults through a novel deep-learning ECG biomarker. Wellcome Open Research, 0, 6, 12.	0.9	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.	0.7	8
48	Intramural conduction system gradients and electrogram regularity during ventricular fibrillation. Indian Pacing and Electrophysiology Journal, 2018, 18, 195-200.	0.3	7
49	Digital health innovation in cardiology. Cardiovascular Digital Health Journal, 2020, 1, 6-8.	0.5	6
50	Utility of transthoracic echocardiography to estimate severity of right ventricular dysfunction: an MRI comparison study. International Journal of Cardiovascular Imaging, 2012, 28, 251-261.	0.7	5
51	Feasibility of Performing Radiofrequency Catheter Ablation and Endomyocardial Biopsy in the Same Setting. American Journal of Cardiology, 2018, 121, 1373-1379.	0.7	5
52	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
53	Artificial Intelligence Applications to Improve Risk Prediction Tools in Electrophysiology. Current Cardiovascular Risk Reports, 2020, 14, 1.	0.8	4
54	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

#	Article	IF	Citations
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.	0.8	4
56	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
57	Year in Review in Cardiac Electrophysiology. Circulation: Arrhythmia and Electrophysiology, 2020, 13, e008733.	2.1	3
58	The autonomic ether: emerging electrophysiologic associations. Indian Heart Journal, 2011, 63, 333-40.	0.2	3
59	Looking Beyond the Ablation Shore, Treating Atrial Fibrillation From Afar. Journal of the American College of Cardiology, 2015, 65, 876-878.	1.2	2
60	The Role of Preventive Ablation of Ventricular Tachycardia in the Patient with Coronary Artery Disease, Reduced Left Ventricular Function, and a New Implantable Cardioverter Defibrillator Implant. Cardiac Electrophysiology Clinics, 2012, 4, 189-198.	0.7	1
61	Remote Monitoring for Atrial Fibrillation. Cardiac Electrophysiology Clinics, 2013, 5, 357-364.	0.7	0
62	Future Trends in the Evolution of Remote Monitoring and Physiologic Sensing Technologies. Cardiac Electrophysiology Clinics, 2013, 5, 371-379.	0.7	0
63	Response by Vaidya et al to Letter Regarding Article, â€œBurden of Arrhythmia in Pregnancyâ€. Circulation, 2017, 136, 244-245.	1.6	0
64	Postablation Atrial Arrhythmias. Cardiac Electrophysiology Clinics, 2019, 11, 573-582.	0.7	0
65	Ablation of Atrial Fibrillation in the Elderly: Current Evidence and Evolving Trends. Journal of Atrial Fibrillation, 2011, 4, 341.	0.5	0