

Sanjiv M Narayan,, Fhrs

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136
papers

5,337
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183
ext. papers

6,660
ext. citations

5.2
avg, IF

5.85
L-index

#	Paper	IF	Citations
136	Treatment of atrial fibrillation by the ablation of localized sources: CONFIRM (Conventional Ablation for Atrial Fibrillation With or Without Focal Impulse and Rotor Modulation) trial. <i>Journal of the American College of Cardiology</i> , 2012 , 60, 628-36	15.1	766
135	Microvolt T-wave alternans physiological basis, methods of measurement, and clinical utility--consensus guideline by International Society for Holter and Noninvasive Electrocardiology. <i>Journal of the American College of Cardiology</i> , 2011 , 58, 1309-24	15.1	294
134	Ablation of rotor and focal sources reduces late recurrence of atrial fibrillation compared with trigger ablation alone: extended follow-up of the CONFIRM trial (Conventional Ablation for Atrial Fibrillation With or Without Focal Impulse and Rotor Modulation). <i>Journal of the American College of Cardiology</i> , 2014 , 63, 1761-8	15.1	264
133	T-wave alternans and the susceptibility to ventricular arrhythmias. <i>Journal of the American College of Cardiology</i> , 2006 , 47, 269-81	15.1	262
132	Clinical mapping approach to diagnose electrical rotors and focal impulse sources for human atrial fibrillation. <i>Journal of Cardiovascular Electrophysiology</i> , 2012 , 23, 447-54	2.7	235
131	Long-term follow-up of idiopathic ventricular fibrillation ablation: a multicenter study. <i>Journal of the American College of Cardiology</i> , 2009 , 54, 522-8	15.1	194
130	Direct or coincidental elimination of stable rotors or focal sources may explain successful atrial fibrillation ablation: on-treatment analysis of the CONFIRM trial (Conventional ablation for AF with or without focal impulse and rotor modulation). <i>Journal of the American College of Cardiology</i> , 2013 , 62, 138-147	15.1	171
129	Initial independent outcomes from focal impulse and rotor modulation ablation for atrial fibrillation: multicenter FIRM registry. <i>Journal of Cardiovascular Electrophysiology</i> , 2014 , 25, 921-929	2.7	151
128	Classifying fractionated electrograms in human atrial fibrillation using monophasic action potentials and activation mapping: evidence for localized drivers, rate acceleration, and nonlocal signal etiologies. <i>Heart Rhythm</i> , 2011 , 8, 244-53	6.7	138
127	Panoramic electrophysiological mapping but not electrogram morphology identifies stable sources for human atrial fibrillation: stable atrial fibrillation rotors and focal sources relate poorly to fractionated electrograms. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2013 , 6, 58-67	6.4	132
126	Repolarization alternans reveals vulnerability to human atrial fibrillation. <i>Circulation</i> , 2011 , 123, 2922-30	6.7	132
125	Lone atrial fibrillation: does it exist?. <i>Journal of the American College of Cardiology</i> , 2014 , 63, 1715-23	15.1	125
124	Alternans of atrial action potentials during atrial flutter as a precursor to atrial fibrillation. <i>Circulation</i> , 2002 , 106, 1968-73	16.7	118
123	Repolarization and activation restitution near human pulmonary veins and atrial fibrillation initiation: a mechanism for the initiation of atrial fibrillation by premature beats. <i>Journal of the American College of Cardiology</i> , 2008 , 52, 1222-30	15.1	106
122	Deep learning for cardiovascular medicine: a practical primer. <i>European Heart Journal</i> , 2019 , 40, 2058-2073	3.3	104
121	Action potential dynamics explain arrhythmic vulnerability in human heart failure: a clinical and modeling study implicating abnormal calcium handling. <i>Journal of the American College of Cardiology</i> , 2008 , 52, 1782-92	15.1	90
120	Atrial conduction slows immediately before the onset of human atrial fibrillation: a bi-atrial contact mapping study of transitions to atrial fibrillation. <i>Journal of the American College of Cardiology</i> , 2012 , 59, 595-606	15.1	76

119	Computational mapping identifies localized mechanisms for ablation of atrial fibrillation. <i>PLoS ONE</i> , 2012 , 7, e46034	3.7	75
118	T-wave alternans, restitution of human action potential duration, and outcome. <i>Journal of the American College of Cardiology</i> , 2007 , 50, 2385-92	15.1	73
117	Mechanisms of human atrial fibrillation initiation: clinical and computational studies of repolarization restitution and activation latency. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2012 , 5, 1149-59	6.4	72
116	Intracoronary Gene Transfer of Adenylyl Cyclase 6 in Patients With Heart Failure: A Randomized Clinical Trial. <i>JAMA Cardiology</i> , 2016 , 1, 163-71	16.2	70
115	Theoretical considerations for mapping activation in human cardiac fibrillation. <i>Chaos</i> , 2013 , 23, 023113	3.3	63
114	Rhythm control in heart failure patients with atrial fibrillation: contemporary challenges including the role of ablation. <i>Journal of the American College of Cardiology</i> , 2014 , 64, 710-21	15.1	50
113	Clinical Implications of Ablation of Drivers for Atrial Fibrillation: A Systematic Review and Meta-Analysis. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2018 , 11, e006119	6.4	49
112	Structural contributions to fibrillatory rotors in a patient-derived computational model of the atria. <i>Europace</i> , 2014 , 16 Suppl 4, iv3-iv10	3.9	48
111	CrossTalk proposal: Rotors have been demonstrated to drive human atrial fibrillation. <i>Journal of Physiology</i> , 2014 , 592, 3163-6	3.9	48
110	Stability of rotors and focal sources for human atrial fibrillation: focal impulse and rotor mapping (FIRM) of AF sources and fibrillatory conduction. <i>Journal of Cardiovascular Electrophysiology</i> , 2014 , 25, 1284-92	2.7	47
109	Mechanisms for the Termination of Atrial Fibrillation by Localized Ablation: Computational and Clinical Studies. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2015 , 8, 1325-33	6.4	45
108	Rotor stability separates sustained ventricular fibrillation from self-terminating episodes in humans. <i>Journal of the American College of Cardiology</i> , 2014 , 63, 2712-21	15.1	39
107	Artificial Intelligence and Machine Learning in Arrhythmias and Cardiac Electrophysiology. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2020 , 13, e007952	6.4	38
106	Evaluating fluctuations in human atrial fibrillatory cycle length using monophasic action potentials. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2006 , 29, 1209-18	1.6	38
105	Integrating blockchain technology with artificial intelligence for cardiovascular medicine. <i>Nature Reviews Cardiology</i> , 2020 , 17, 1-3	14.8	37
104	Treating Specialty and Outcomes in Newly Diagnosed Atrial Fibrillation: From the TREAT-AF Study. <i>Journal of the American College of Cardiology</i> , 2017 , 70, 78-86	15.1	35
103	Two Independent Mapping Techniques Identify Rotational Activity Patterns at Sites of Local Termination During Persistent Atrial Fibrillation. <i>Journal of Cardiovascular Electrophysiology</i> , 2017 , 28, 615-622	2.7	34
102	Human atrial fibrillation initiates via organized rather than disorganized mechanisms. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2014 , 7, 816-24	6.4	33

101	Demonstration of the proarrhythmic preconditioning of single premature extrastimuli by use of the magnitude, phase, and distribution of repolarization alternans. <i>Circulation</i> , 1999 , 100, 1887-93	16.7	33
100	Comparison of Detailed and Simplified Models of Human Atrial Myocytes to Recapitulate Patient Specific Properties. <i>PLoS Computational Biology</i> , 2016 , 12, e1005060	5	33
99	Integration of novel monitoring devices with machine learning technology for scalable cardiovascular management. <i>Nature Reviews Cardiology</i> , 2021 , 18, 75-91	14.8	33
98	Using electrocardiographic activation time and diastolic intervals to separate focal from macro-re-entrant atrial tachycardias. <i>Journal of the American College of Cardiology</i> , 2007 , 49, 1965-73	15.1	32
97	Separating atrial flutter from atrial fibrillation with apparent electrocardiographic organization using dominant and narrow F-wave spectra. <i>Journal of the American College of Cardiology</i> , 2005 , 46, 2079-87	15.1	32
96	Mechanistically based mapping of human cardiac fibrillation. <i>Journal of Physiology</i> , 2016 , 594, 2399-415	3.9	28
95	Modifying Ventricular Fibrillation by Targeted Rotor Substrate Ablation: Proof-of-Concept from Experimental Studies to Clinical VF. <i>Journal of Cardiovascular Electrophysiology</i> , 2015 , 26, 1117-26	2.7	27
94	Identification and Characterization of Sites Where Persistent Atrial Fibrillation Is Terminated by Localized Ablation. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2018 , 11, e005258	6.4	26
93	Centrifugal gradients of rate and organization in human atrial fibrillation. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2009 , 32, 1366-78	1.6	26
92	New Concepts in Sudden Cardiac Arrest to Address an Intractable Epidemic: JACC State-of-the-Art Review. <i>Journal of the American College of Cardiology</i> , 2019 , 73, 70-88	15.1	25
91	Synergistic Anti-arrhythmic Effects in Human Atria with Combined Use of Sodium Blockers and Acacetin. <i>Frontiers in Physiology</i> , 2017 , 8, 946	4.6	24
90	Atrial Fibrillation Burden Signature and Near-Term Prediction of Stroke: A Machine Learning Analysis. <i>Circulation: Cardiovascular Quality and Outcomes</i> , 2019 , 12, e005595	5.8	22
89	Interaction of Localized Drivers and Disorganized Activation in Persistent Atrial Fibrillation: Reconciling Putative Mechanisms Using Multiple Mapping Techniques. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2018 , 11, e005846	6.4	22
88	Targeted ablation at stable atrial fibrillation sources improves success over conventional ablation in high-risk patients: a substudy of the CONFIRM Trial. <i>Canadian Journal of Cardiology</i> , 2013 , 29, 1218-26	3.8	21
87	Early temporal and spatial regularization of persistent atrial fibrillation predicts termination and arrhythmia-free outcome. <i>Heart Rhythm</i> , 2011 , 8, 1374-82	6.7	21
86	Frequency analysis of atrial action potential alternans: a sensitive clinical index of individual propensity to atrial fibrillation. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2013 , 6, 859-67	6.4	20
85	Steep restitution of ventricular action potential duration and conduction slowing in human Brugada syndrome. <i>Heart Rhythm</i> , 2007 , 4, 1087-9	6.7	20
84	Separating non-isthmus- from isthmus-dependent atrial flutter using wavefront variability. <i>Journal of the American College of Cardiology</i> , 2005 , 45, 1269-79	15.1	20

83	The role of rotors in atrial fibrillation. <i>Journal of Thoracic Disease</i> , 2015 , 7, 142-51	2.6	19
82	Accurate ECG diagnosis of atrial tachyarrhythmias using quantitative analysis: a prospective diagnostic and cost-effectiveness study. <i>Journal of Cardiovascular Electrophysiology</i> , 2010 , 21, 1251-9	2.7	18
81	Rotor mapping and ablation to treat atrial fibrillation. <i>Current Opinion in Cardiology</i> , 2015 , 30, 24-32	2.1	17
80	Machine Learning to Classify Intracardiac Electrical Patterns During Atrial Fibrillation: Machine Learning of Atrial Fibrillation. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2020 , 13, e008160	6.4	17
79	Temporal and spatial phase analyses of the electrocardiogram stratify intra-atrial and intra-ventricular organization. <i>IEEE Transactions on Biomedical Engineering</i> , 2004 , 51, 1749-64	5	17
78	The precise timing of tachycardia entrainment is determined by the postpacing interval, the tachycardia cycle length, and the pacing rate: Theoretical insights and practical applications. <i>Heart Rhythm</i> , 2016 , 13, 695-703	6.7	16
77	Organized Sources Are Spatially Conserved in Recurrent Compared to Pre-Ablation Atrial Fibrillation: Further Evidence for Non-Random Electrical Substrates. <i>Journal of Cardiovascular Electrophysiology</i> , 2016 , 27, 661-9	2.7	16
76	Comparative efficacy of stellate ganglion block with bupivacaine vs pulsed radiofrequency in a patient with refractory ventricular arrhythmias. <i>Journal of Clinical Anesthesia</i> , 2016 , 31, 162-5	1.9	16
75	Intermittent atrial tachycardia promotes repolarization alternans and conduction slowing during rapid rates, and increases susceptibility to atrial fibrillation in a free-behaving sheep model. <i>Journal of Cardiovascular Electrophysiology</i> , 2014 , 25, 418-427	2.7	15
74	Mapping and ablating stable sources for atrial fibrillation: summary of the literature on Focal Impulse and Rotor Modulation (FIRM). <i>Journal of Interventional Cardiac Electrophysiology</i> , 2014 , 40, 237-44	4.4	15
73	Transparent sharing of digital health data: A call to action. <i>Heart Rhythm</i> , 2019 , 16, e95-e106	6.7	14
72	A case of a human ventricular fibrillation rotor localized to ablation sites for scar-mediated monomorphic ventricular tachycardia. <i>Heart Rhythm</i> , 2013 , 10, 1913-6	6.7	13
71	Challenging the complementarity of different metrics of left atrial function: insight from a cardiomyopathy-based study. <i>European Heart Journal Cardiovascular Imaging</i> , 2017 , 18, 1153-1162	4.1	13
70	Quantifying intracardiac organization of atrial arrhythmias using temporospatial phase of the electrocardiogram. <i>Journal of Cardiovascular Electrophysiology</i> , 2003 , 14, 971-81	2.7	13
69	Recurrent Post-Ablation Paroxysmal Atrial Fibrillation Shares Substrates With Persistent Atrial Fibrillation : An 11-Center Study. <i>JACC: Clinical Electrophysiology</i> , 2017 , 3, 393-402	4.6	12
68	Spatial relationship of organized rotational and focal sources in human atrial fibrillation to autonomic ganglionated plexi. <i>International Journal of Cardiology</i> , 2017 , 240, 234-239	3.2	12
67	Independent mapping methods reveal rotational activation near pulmonary veins where atrial fibrillation terminates before pulmonary vein isolation. <i>Journal of Cardiovascular Electrophysiology</i> , 2018 , 29, 687-695	2.7	12
66	Rotors as drivers of atrial fibrillation and targets for ablation. <i>Current Cardiology Reports</i> , 2014 , 16, 509	4.2	12

65	Interpreting Activation Mapping of Atrial Fibrillation: A Hybrid Computational/Physiological Study. <i>Annals of Biomedical Engineering</i> , 2018 , 46, 257-269	4.7	12
64	Multicentre safety of adding Focal Impulse and Rotor Modulation (FIRM) to conventional ablation for atrial fibrillation. <i>Europace</i> , 2017 , 19, 769-774	3.9	11
63	HRS policy statement: clinical cardiac electrophysiology fellowship curriculum: update 2011. <i>Heart Rhythm</i> , 2011 , 8, 1340-56	6.7	11
62	Secular trends in success rate of catheter ablation for atrial fibrillation: The SMASH-AF cohort. <i>American Heart Journal</i> , 2019 , 208, 110-119	4.9	11
61	Phase synchrony reveals organization in human atrial fibrillation. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015 , 309, H2118-26	5.2	10
60	Transient outward K current can strongly modulate action potential duration and initiate alternans in the human atrium. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019 , 316, H527-H542	5.2	10
59	Machine Learned Cellular Phenotypes in Cardiomyopathy Predict Sudden Death. <i>Circulation Research</i> , 2021 , 128, 172-184	15.7	10
58	Noninvasive Assessment of Complexity of Atrial Fibrillation: Correlation With Contact Mapping and Impact of Ablation. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2020 , 13, e007700	6.4	9
57	Ablation of Focal Impulses and Rotational Sources: What Can Be Learned from Differing Procedural Outcomes?. <i>Current Cardiovascular Risk Reports</i> , 2017 , 11, 1	0.9	9
56	Rebuttal from Sanjiv M. Narayan and Jos Jalife. <i>Journal of Physiology</i> , 2014 , 592, 3171	3.9	9
55	Mechanisms Underlying AF: Triggers, Rotors, Other?. <i>Current Treatment Options in Cardiovascular Medicine</i> , 2015 , 17, 371	2.1	8
54	Ablation of atrial fibrillation. <i>Trends in Cardiovascular Medicine</i> , 2015 , 25, 409-19	6.9	8
53	Geographic and racial representation and reported success rates of studies of catheter ablation for atrial fibrillation: Findings from the SMASH-AF meta-analysis study cohort. <i>Journal of Cardiovascular Electrophysiology</i> , 2018 , 29, 747-755	2.7	8
52	The continuous challenge of AF ablation: From foci to rotational activity. <i>Revista Portuguesa De Cardiologia (English Edition)</i> , 2017 , 36, 9-17	0	8
51	Rotors and focal sources for human atrial fibrillation: mechanistic paradigm with direct clinical relevance. <i>Circulation Journal</i> , 2014 , 78, 2357-66	2.9	7
50	The continuous challenge of AF ablation: From foci to rotational activity. <i>Revista Portuguesa De Cardiologia</i> , 2017 , 36 Suppl 1, 9-17	1	7
49	Populations of in silico myocytes and tissues reveal synergy of multiatrial-predominant K-current block in atrial fibrillation. <i>British Journal of Pharmacology</i> , 2020 , 177, 4497-4515	8.6	7
48	Comparison of phase mapping and electrogram-based driver mapping for catheter ablation in atrial fibrillation. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2019 , 42, 216-223	1.6	7

47	Urinary tract infection after catheter ablation of atrial fibrillation. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2019 , 42, 951-958	1.6	6
46	Wavefront Field Mapping Reveals a Physiologic Network Between Drivers Where Ablation Terminates Atrial Fibrillation. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2019 , 12, e006835	6.4	6
45	Efficacy of Ablation Lesion Sets in Addition to Pulmonary Vein Isolation for Paroxysmal Atrial Fibrillation: Findings From the SMASH - AF Meta-Analysis Study Cohort. <i>Journal of the American Heart Association</i> , 2019 , 8, e009976	6	6
44	Spatiotemporal Progression of Early Human Ventricular Fibrillation. <i>JACC: Clinical Electrophysiology</i> , 2017 , 3, 1437-1446	4.6	5
43	Determining conduction patterns on a sparse electrode grid: Implications for the analysis of clinical arrhythmias. <i>Physical Review E</i> , 2016 , 94, 050401	2.4	5
42	Ablation of Atrial Fibrillation Drivers. <i>Arrhythmia and Electrophysiology Review</i> , 2017 , 6, 195-201	3.2	5
41	Electrical Substrate Ablation for Refractory Ventricular Fibrillation: Results of the AVATAR Study. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2021 , 14, e008868	6.4	5
40	Mapping and Ablation of Rotational and Focal Drivers in Atrial Fibrillation. <i>Cardiac Electrophysiology Clinics</i> , 2019 , 11, 583-595	1.4	5
39	Patient and facility variation in costs of catheter ablation for atrial fibrillation. <i>Journal of Cardiovascular Electrophysiology</i> , 2018 , 29, 1081-1088	2.7	4
38	Identifying Atrial Fibrillation Mechanisms for Personalized Medicine. <i>Journal of Clinical Medicine</i> , 2021 , 10,	5.1	4
37	Electrocardiographic spatial loops indicate organization of atrial fibrillation minutes before ablation-related transitions to atrial tachycardia. <i>Journal of Electrocardiology</i> , 2017 , 50, 307-315	1.4	3
36	Ablating Atrial Fibrillation: Customizing Lesion Sets Guided by Rotor Mapping. <i>Methodist DeBakey Cardiovascular Journal</i> , 2015 , 11, 76-81	2.1	3
35	Termination of persistent atrial fibrillation by ablating sites that control large atrial areas. <i>Europace</i> , 2020 , 22, 897-905	3.9	3
34	Mechanistic targets for the ablation of atrial fibrillation. <i>Global Cardiology Science & Practice</i> , 2017 , 2017, e201707	0.7	3
33	Competing risks in patients with primary prevention implantable cardioverter-defibrillators: Global Electrical Heterogeneity and Clinical Outcomes study. <i>Heart Rhythm</i> , 2021 , 18, 977-986	6.7	3
32	Continuous ablation improves lesion maturation compared with intermittent ablation strategies. <i>Journal of Cardiovascular Electrophysiology</i> , 2020 , 31, 1687-1693	2.7	2
31	Improving sudden cardiac death risk stratification by evaluating electrocardiographic measures of global electrical heterogeneity and clinical outcomes among patients with implantable cardioverter-defibrillators: rationale and design for a retrospective, multicenter, cohort study. <i>Journal of Interventional Cardiac Electrophysiology</i> , 2018 , 52, 77-89	2.4	2
30	Online webinar training to analyse complex atrial fibrillation maps: A randomized trial. <i>PLoS ONE</i> , 2019 , 14, e0217988	3.7	2

29	Highlights of the year in JACC 2013. <i>Journal of the American College of Cardiology</i> , 2014 , 63, 570-602	15.1	2
28	Spatial relationship of sites for atrial fibrillation drivers and atrial tachycardia in patients with both arrhythmias. <i>International Journal of Cardiology</i> , 2017 , 248, 188-195	3.2	2
27	Role of Rotors in the Ablative Therapy of Persistent Atrial Fibrillation. <i>Arrhythmia and Electrophysiology Review</i> , 2015 , 4, 47-52	3.2	2
26	Action Potential Dynamics in Human Atrial Fibrillation 2020 , 333-345		2
25	Novel three-dimensional imaging approach for cryoballoon navigation and confirmation of pulmonary vein occlusion. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2020 , 43, 269-277	1.6	2
24	Three dimensional reconstruction to visualize atrial fibrillation activation patterns on curved atrial geometry. <i>PLoS ONE</i> , 2021 , 16, e0249873	3.7	2
23	Immediate and Delayed Response of Simulated Human Atrial Myocytes to Clinically-Relevant Hypokalemia. <i>Frontiers in Physiology</i> , 2021 , 12, 651162	4.6	2
22	Rapid Exclusion of COVID Infection With the Artificial Intelligence Electrocardiogram. <i>Mayo Clinic Proceedings</i> , 2021 , 96, 2081-2094	6.4	2
21	Rotor Mapping in Patients with Atrial Fibrillation 2019 , 482-495		1
20	Rotors in Human Atrial Fibrillation 2018 , 426-436		1
19	Highlights of the year in JACC 2010. <i>Journal of the American College of Cardiology</i> , 2011 , 57, 480-514	15.1	1
18	Predicting Atrial Fibrillation Recurrence by Combining Population Data and Virtual Cohorts of Patient-Specific Left Atrial Models.. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2022 , CIRCEP1210102534	6.4	1
17	Arrhythmia Patterns in Patients on Ibrutinib.. <i>Frontiers in Cardiovascular Medicine</i> , 2021 , 8, 792310	5.4	1
16	Abstract 18492: Phase Analysis Detects Human Atrial Fibrillation Sources While Classical Activation Mapping May Not: Reconciling Classical and Computational Mapping. <i>Circulation</i> , 2015 , 132,	16.7	1
15	Non-invasive Spatial Mapping of Frequencies in Atrial Fibrillation: Correlation With Contact Mapping. <i>Frontiers in Physiology</i> , 2020 , 11, 611266	4.6	1
14	Intra-cardiac Signatures of Atrial Arrhythmias Identified by Machine Learning and Traditional Features. <i>Lecture Notes in Computer Science</i> , 2021 , 671-678	0.9	1
13	Characterizing Electrogram Signal Fidelity and the Effects of Signal Contamination on Mapping Human Persistent Atrial Fibrillation. <i>Frontiers in Physiology</i> , 2018 , 9, 1232	4.6	1
12	Atrial fibrillation signatures on intracardiac electrograms identified by deep learning.. <i>Computers in Biology and Medicine</i> , 2022 , 145, 105451	7	1

11	Highlights of the Year in JACC 2009. <i>Journal of the American College of Cardiology</i> , 2010 , 55, 380-407	15.1	o
10	Automatic quality electrogram assessment improves phase-based reentrant activity identification in atrial fibrillation. <i>Computers in Biology and Medicine</i> , 2020 , 117, 103593	7	o
9	Ablation of Atrial Fibrillation Drivers 2019 , 279-291.e2		
8	Contact Mapping and Ablation of Complex Cardiac Arrhythmias 2019 , 236-251		
7	Response by Bhatia et al to Letter Regarding Article, "Wavefront Field Mapping Reveals a Physiologic Network Between Drivers Where Ablation Terminates Atrial Fibrillation". <i>Circulation: Arrhythmia and Electrophysiology</i> , 2019 , 12, e008022	6.4	
6	Reply: Are Rotors Markers of Substrate or a Mechanism of Perpetuation of Atrial Fibrillation? Increasing Data for Rotational Drivers of Human AF. <i>JACC: Clinical Electrophysiology</i> , 2017 , 3, 1340-1341	4.6	
5	Mapping and ablation of electrical rotor and focal sources for atrial fibrillation: a patient-tailored mechanistic approach 2015 , 271-282		
4	Mechanistic targets for the ablation of atrial fibrillation. <i>Global Cardiology Science & Practice</i> , 2015 , 2015, 67	0.7	
3	Implantable defibrillators with and without resynchronization for patients with left ventricular dysfunction. <i>Texas Heart Institute Journal</i> , 2005 , 32, 358-61	0.8	
2	Thinking outside the Box: Rotor Modulation in the Treatment of Atrial Fibrillation. <i>Journal of Atrial Fibrillation</i> , 2013 , 6, 811	0.8	
1	New Mechanism-based Approaches to Ablating Persistent AF: Will Drug Therapy Soon Be Obsolete?. <i>Journal of Cardiovascular Pharmacology</i> , 2016 , 67, 1-8	3.1	