Sanjiv M Narayan,, Fhrs

List of Publications by Year in Descending Order

136 papers	5,337 citations	34 h-index	71 g-index
183 ext. papers	6,660 ext. citations	5.2 avg, IF	5.85 L-index

#	Paper	IF	Citations
136	Predicting Atrial Fibrillation Recurrence by Combining Population Data and Virtual Cohorts of Patient-Specific Left Atrial Models.. *Circulation: Arrhythmia and Electrophysiology*, **2022**, CIRCEP121010253	6.4	1
135	Atrial fibrillation signatures on intracardiac electrograms identified by deep learning.. *Computers in Biology and Medicine*, **2022**, 145, 105451	7	1
134	Arrhythmia Patterns in Patients on Ibrutinib.. *Frontiers in Cardiovascular Medicine*, **2021**, 8, 792310	5.4	1
133	Identifying Atrial Fibrillation Mechanisms for Personalized Medicine. *Journal of Clinical Medicine*, **2021**, 10,	5.1	4
132	Electrical Substrate Ablation for Refractory Ventricular Fibrillation: Results of the AVATAR Study. *Circulation: Arrhythmia and Electrophysiology*, **2021**, 14, e008868	6.4	5
131	Three dimensional reconstruction to visualize atrial fibrillation activation patterns on curved atrial geometry. *PLoS ONE*, **2021**, 16, e0249873	3.7	2
130	Immediate and Delayed Response of Simulated Human Atrial Myocytes to Clinically-Relevant Hypokalemia. *Frontiers in Physiology*, **2021**, 12, 651162	4.6	2
129	Competing risks in patients with primary prevention implantable cardioverter-defibrillators: Global Electrical Heterogeneity and Clinical Outcomes study. *Heart Rhythm*, **2021**, 18, 977-986	6.7	3
128	Integration of novel monitoring devices with machine learning technology for scalable cardiovascular management. *Nature Reviews Cardiology*, **2021**, 18, 75-91	14.8	33
127	Machine Learned Cellular Phenotypes in Cardiomyopathy Predict Sudden Death. *Circulation Research*, **2021**, 128, 172-184	15.7	10
126	Intra-cardiac Signatures of Atrial Arrhythmias Identified by Machine Learning and Traditional Features. *Lecture Notes in Computer Science*, **2021**, 671-678	0.9	1
125	Rapid Exclusion of COVID Infection With the Artificial Intelligence Electrocardiogram. *Mayo Clinic Proceedings*, **2021**, 96, 2081-2094	6.4	2
124	Artificial Intelligence and Machine Learning in Arrhythmias and Cardiac Electrophysiology. *Circulation: Arrhythmia and Electrophysiology*, **2020**, 13, e007952	6.4	38
123	Machine Learning to Classify Intracardiac Electrical Patterns During Atrial Fibrillation: Machine Learning of Atrial Fibrillation. *Circulation: Arrhythmia and Electrophysiology*, **2020**, 13, e008160	6.4	17
122	Noninvasive Assessment of Complexity of Atrial Fibrillation: Correlation With Contact Mapping and Impact of Ablation. *Circulation: Arrhythmia and Electrophysiology*, **2020**, 13, e007700	6.4	9
121	Termination of persistent atrial fibrillation by ablating sites that control large atrial areas. *Europace* , **2020**, 22, 897-905	3.9	3
120	Continuous ablation improves lesion maturation compared with intermittent ablation strategies. *Journal of Cardiovascular Electrophysiology*, **2020**, 31, 1687-1693	2.7	2

119	Action Potential Dynamics in Human Atrial Fibrillation **2020**, 333-345		2
118	Automatic quality electrogram assessment improves phase-based reentrant activity identification in atrial fibrillation. *Computers in Biology and Medicine*, **2020**, 117, 103593	7	0
117	Novel three-dimensional imaging approach for cryoballoon navigation and confirmation of pulmonary vein occlusion. *PACE - Pacing and Clinical Electrophysiology*, **2020**, 43, 269-277	1.6	2
116	Populations of in silico myocytes and tissues reveal synergy of multiatrial-predominant K -current block in atrial fibrillation. *British Journal of Pharmacology*, **2020**, 177, 4497-4515	8.6	7
115	Integrating blockchain technology with artificial intelligence for cardiovascular medicine. *Nature Reviews Cardiology*, **2020**, 17, 1-3	14.8	37
114	Non-invasive Spatial Mapping of Frequencies in Atrial Fibrillation: Correlation With Contact Mapping. *Frontiers in Physiology*, **2020**, 11, 611266	4.6	1
113	Atrial Fibrillation Burden Signature and Near-Term Prediction of Stroke: A Machine Learning Analysis. *Circulation: Cardiovascular Quality and Outcomes*, **2019**, 12, e005595	5.8	22
112	Transparent sharing of digital health data: A call to action. *Heart Rhythm*, **2019**, 16, e95-e106	6.7	14
111	Urinary tract infection after catheter ablation of atrial fibrillation. *PACE - Pacing and Clinical Electrophysiology*, **2019**, 42, 951-958	1.6	6
110	Deep learning for cardiovascular medicine: a practical primer. *European Heart Journal*, **2019**, 40, 2058-2073	23	104
109	Ablation of Atrial Fibrillation Drivers **2019**, 279-291.e2		
108	Contact Mapping and Ablation of Complex Cardiac Arrhythmias **2019**, 236-251		
107	Rotor Mapping in Patients with Atrial Fibrillation **2019**, 482-495		1
106	Wavefront Field Mapping Reveals a Physiologic Network Between Drivers Where Ablation Terminates Atrial Fibrillation. *Circulation: Arrhythmia and Electrophysiology*, **2019**, 12, e006835	6.4	6
105	Online webinar training to analyse complex atrial fibrillation maps: A randomized trial. *PLoS ONE*, **2019**, 14, e0217988	3.7	2
104	Response by Bhatia et al to Letter Regarding Article, "Wavefront Field Mapping Reveals a Physiologic Network Between Drivers Where Ablation Terminates Atrial Fibrillation". *Circulation: Arrhythmia and Electrophysiology*, **2019**, 12, e008022	6.4	
103	Mapping and Ablation of Rotational and Focal Drivers in Atrial Fibrillation. *Cardiac Electrophysiology Clinics*, **2019**, 11, 583-595	1.4	5
102	Transient outward K current can strongly modulate action potential duration and initiate alternans in the human atrium. *American Journal of Physiology - Heart and Circulatory Physiology*, **2019**, 316, H527-H542	5.2	10

101	Efficacy of Ablation Lesion Sets in Addition to Pulmonary Vein Isolation for Paroxysmal Atrial Fibrillation: Findings From the SMASH - AF Meta-Analysis Study Cohort. *Journal of the American Heart Association*, **2019**, 8, e009976	6	6
100	New Concepts in Sudden Cardiac Arrest to Address´an Intractable Epidemic: JACC State-of-the-Art Review. *Journal of the American College of Cardiology*, **2019**, 73, 70-88	15.1	25
99	Secular trends in success rate of catheter ablation for atrial fibrillation: The SMASH-AF cohort. *American Heart Journal*, **2019**, 208, 110-119	4.9	11
98	Comparison of phase mapping and electrogram-based driver mapping for catheter ablation in atrial fibrillation. *PACE - Pacing and Clinical Electrophysiology*, **2019**, 42, 216-223	1.6	7
97	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. *Journal of Cardiovascular Electrophysiology*, **2018**, 29, 747-755	2.7	8
96	Independent mapping methods reveal rotational activation near pulmonary veins where atrial fibrillation terminates before pulmonary vein isolation. *Journal of Cardiovascular Electrophysiology*, **2018**, 29, 687-695	2.7	12
95	Identification and Characterization of Sites Where Persistent Atrial Fibrillation Is Terminated by Localized Ablation. *Circulation: Arrhythmia and Electrophysiology*, **2018**, 11, e005258	6.4	26
94	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. *Journal of Interventional Cardiac Electrophysiology*, **2018**, 52, 77-89	2.4	2
93	Rotors in Human Atrial Fibrillation **2018**, 426-436		1
92	Clinical Implications of Ablation of Drivers for Atrial Fibrillation: A Systematic Review and Meta-Analysis. *Circulation: Arrhythmia and Electrophysiology*, **2018**, 11, e006119	6.4	49
91	Patient and facility variation in costs of catheter ablation for atrial fibrillation. *Journal of Cardiovascular Electrophysiology*, **2018**, 29, 1081-1088	2.7	4
90	Interaction of Localized Drivers and Disorganized Activation in Persistent Atrial Fibrillation: Reconciling Putative Mechanisms Using Multiple Mapping Techniques. *Circulation: Arrhythmia and Electrophysiology*, **2018**, 11, e005846	6.4	22
89	Interpreting Activation Mapping of Atrial Fibrillation: A Hybrid Computational/Physiological Study. *Annals of Biomedical Engineering*, **2018**, 46, 257-269	4.7	12
88	Characterizing Electrogram Signal Fidelity and the Effects of Signal Contamination on Mapping Human Persistent Atrial Fibrillation. *Frontiers in Physiology*, **2018**, 9, 1232	4.6	1
87	Two Independent Mapping Techniques Identify Rotational Activity Patterns at Sites of Local Termination During Persistent Atrial Fibrillation. *Journal of Cardiovascular Electrophysiology*, **2017**, 28, 615-622	2.7	34
86	Recurrent Post-Ablation Paroxysmal Atrial Fibrillation Shares Substrates With Persistent Atrial Fibrillation : An 11-Center Study. *JACC: Clinical Electrophysiology*, **2017**, 3, 393-402	4.6	12
85	Spatial relationship of organized rotational and focal sources in human atrial fibrillation to autonomic ganglionated plexi. *International Journal of Cardiology*, **2017**, 240, 234-239	3.2	12
84	Multicentre safety of adding Focal Impulse and Rotor Modulation (FIRM) to conventional ablation for atrial fibrillation. *Europace*, **2017**, 19, 769-774	3.9	11

83	Electrocardiographic spatial loops indicate organization of atrial fibrillation minutes before ablation-related transitions to atrial tachycardia. *Journal of Electrocardiology*, **2017**, 50, 307-315	1.4	3
82	Spatiotemporal Progression of Early Human Ventricular Fibrillation. *JACC: Clinical Electrophysiology*, **2017**, 3, 1437-1446	4.6	5
81	Ablation of Focal Impulses and Rotational Sources: What Can Be Learned from Differing Procedural Outcomes?. *Current Cardiovascular Risk Reports*, **2017**, 11, 1	0.9	9
80	Spatial relationship of sites for atrial fibrillation drivers and atrial tachycardia in patients with both arrhythmias. *International Journal of Cardiology*, **2017**, 248, 188-195	3.2	2
79	Reply: Are Rotors Markers of Substrate or´a´Mechanism of Perpetuation of Atrial Fibrillation? Increasing Data for Rotational Drivers of Human AF. *JACC: Clinical Electrophysiology*, **2017**, 3, 1340-1341	4.6	
78	The continuous challenge of AF ablation: From foci to rotational activity. *Revista Portuguesa De Cardiologia*, **2017**, 36 Suppl 1, 9-17	1	7
77	Treating Specialty and Outcomes in Newly´Diagnosed Atrial Fibrillation: From the TREAT-AF´Study. *Journal of the American College of Cardiology*, **2017**, 70, 78-86	15.1	35
76	Challenging the complementarity of different metrics of left atrial function: insight from a cardiomyopathy-based study. *European Heart Journal Cardiovascular Imaging*, **2017**, 18, 1153-1162	4.1	13
75	The continuous challenge of AF ablation: From foci to rotational activity. *Revista Portuguesa De Cardiologia (English Edition)*, **2017**, 36, 9-17	0	8
74	Synergistic Anti-arrhythmic Effects in Human Atria with Combined Use of Sodium Blockers and Acacetin. *Frontiers in Physiology*, **2017**, 8, 946	4.6	24
73	Ablation of Atrial Fibrillation Drivers. *Arrhythmia and Electrophysiology Review*, **2017**, 6, 195-201	3.2	5
72	Mechanistic targets for the ablation of atrial fibrillation. *Global Cardiology Science & Practice*, **2017**, 2017, e201707	0.7	3
71	Mechanistically based mapping of human cardiac fibrillation. *Journal of Physiology*, **2016**, 594, 2399-415	3.9	28
70	Determining conduction patterns on a sparse electrode grid: Implications for the analysis of clinical arrhythmias. *Physical Review E*, **2016**, 94, 050401	2.4	5
69	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. *Heart Rhythm*, **2016**, 13, 695-703	6.7	16
68	Comparison of Detailed and Simplified Models of Human Atrial Myocytes to Recapitulate Patient Specific Properties. *PLoS Computational Biology*, **2016**, 12, e1005060	5	33
67	New Mechanism-based Approaches to Ablating Persistent AF: Will Drug Therapy Soon Be Obsolete?. *Journal of Cardiovascular Pharmacology*, **2016**, 67, 1-8	3.1	
66	Organized Sources Are Spatially Conserved in Recurrent Compared to Pre-Ablation Atrial Fibrillation: Further Evidence for Non-Random Electrical Substrates. *Journal of Cardiovascular Electrophysiology*, **2016**, 27, 661-9	2.7	16

65	Intracoronary Gene Transfer of Adenylyl Cyclase 6 in Patients With Heart Failure: A Randomized Clinical Trial. *JAMA Cardiology*, **2016**, 1, 163-71	16.2	70
64	Comparative efficacy of stellate ganglion block with bupivacaine vs pulsed radiofrequency in a patient with refractory ventricular arrhythmias. *Journal of Clinical Anesthesia*, **2016**, 31, 162-5	1.9	16
63	Mechanisms Underlying AF: Triggers, Rotors, Other?. *Current Treatment Options in Cardiovascular Medicine*, **2015**, 17, 371	2.1	8
62	Rotor mapping and ablation to treat atrial fibrillation. *Current Opinion in Cardiology*, **2015**, 30, 24-32	2.1	17
61	Ablating Atrial Fibrillation: Customizing Lesion Sets Guided by Rotor Mapping. *Methodist DeBakey Cardiovascular Journal*, **2015**, 11, 76-81	2.1	3
60	Mechanisms for the Termination of Atrial Fibrillation by Localized Ablation: Computational and Clinical Studies. *Circulation: Arrhythmia and Electrophysiology*, **2015**, 8, 1325-33	6.4	45
59	Ablation of atrial fibrillation. *Trends in Cardiovascular Medicine*, **2015**, 25, 409-19	6.9	8
58	Mapping and ablation of electrical rotor and focal sources for atrial fibrillation: a patient-tailored mechanistic approach **2015**, 271-282		
57	Mechanistic targets for the ablation of atrial fibrillation. *Global Cardiology Science & Practice*, **2015**, 2015, 67	0.7	
56	Modifying Ventricular Fibrillation by Targeted Rotor Substrate Ablation: Proof-of-Concept from Experimental Studies to Clinical VF. *Journal of Cardiovascular Electrophysiology*, **2015**, 26, 1117-26	2.7	27
55	Phase synchrony reveals organization in human atrial fibrillation. *American Journal of Physiology - Heart and Circulatory Physiology*, **2015**, 309, H2118-26	5.2	10
54	Role of Rotors in the Ablative Therapy of Persistent Atrial Fibrillation. *Arrhythmia and Electrophysiology Review*, **2015**, 4, 47-52	3.2	2
53	The role of rotors in atrial fibrillation. *Journal of Thoracic Disease*, **2015**, 7, 142-51	2.6	19
52	Abstract 18492: Phase Analysis Detects Human Atrial Fibrillation Sources While Classical Activation Mapping May Not: Reconciling Classical and Computational Mapping. *Circulation*, **2015**, 132,	16.7	1
51	Highlights of the year in JACC 2013. *Journal of the American College of Cardiology*, **2014**, 63, 570-602	15.1	2
50	Lone atrial fibrillation: does it exist?. *Journal of the American College of Cardiology*, **2014**, 63, 1715-23	15.1	125
49	Intermittent atrial tachycardia promotes repolarization alternans and conduction slowing during rapid rates, and increases susceptibility to atrial fibrillation in a free-behaving sheep model. *Journal of Cardiovascular Electrophysiology*, **2014**, 25, 418-427	2.7	15
48	Human atrial fibrillation initiates via organized rather than disorganized mechanisms. *Circulation: Arrhythmia and Electrophysiology*, **2014**, 7, 816-24	6.4	33

47	Rhythm control in heart failure patients with atrial fibrillation: contemporary challenges including the role of ablation. *Journal of the American College of Cardiology*, **2014**, 64, 710-21	15.1	50
46	Mapping and ablating stable sources for atrial fibrillation: summary of the literature on Focal Impulse and Rotor Modulation (FIRM). *Journal of Interventional Cardiac Electrophysiology*, **2014**, 40, 237-44	2.4	15
45	Rotors as drivers of atrial fibrillation and targets for ablation. *Current Cardiology Reports*, **2014**, 16, 509	4.2	12
44	Rotor stability separates sustained ventricular fibrillation from self-terminating episodes in humans. *Journal of the American College of Cardiology*, **2014**, 63, 2712-21	15.1	39
43	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). *Journal of the American College of Cardiology*, **2014**, 63, 1761-8	15.1	264
42	Rotors and focal sources for human atrial fibrillation: mechanistic paradigm with direct clinical relevance. *Circulation Journal*, **2014**, 78, 2357-66	2.9	7
41	Structural contributions to fibrillatory rotors in a patient-derived computational model of the atria. *Europace*, **2014**, 16 Suppl 4, iv3-iv10	3.9	48
40	Initial independent outcomes from focal impulse and rotor modulation ablation for atrial fibrillation: multicenter FIRM registry. *Journal of Cardiovascular Electrophysiology*, **2014**, 25, 921-929	2.7	151
39	Rebuttal from Sanjiv M. Narayan and Jos Jalife. *Journal of Physiology*, **2014**, 592, 3171	3.9	9
38	CrossTalk proposal: Rotors have been demonstrated to drive human atrial fibrillation. *Journal of Physiology*, **2014**, 592, 3163-6	3.9	48
37	Stability of rotors and focal sources for human atrial fibrillation: focal impulse and rotor mapping (FIRM) of AF sources and fibrillatory conduction. *Journal of Cardiovascular Electrophysiology*, **2014**, 25, 1284-92	2.7	47
36	Targeted ablation at stable atrial fibrillation sources improves success over conventional ablation in high-risk patients: a substudy of the CONFIRM Trial. *Canadian Journal of Cardiology*, **2013**, 29, 1218-26	3.8	21
35	A case of a human ventricular fibrillation rotor localized to ablation sites for scar-mediated monomorphic ventricular tachycardia. *Heart Rhythm*, **2013**, 10, 1913-6	6.7	13
34	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). *Journal of the American College of Cardiology*, **2013**,	15.1	171
33	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. *Circulation: Arrhythmia and Electrophysiology*, **2013**, 6, 58-67	6.4	132
32	Frequency analysis of atrial action potential alternans: a sensitive clinical index of individual propensity to atrial fibrillation. *Circulation: Arrhythmia and Electrophysiology*, **2013**, 6, 859-67	6.4	20
31	Theoretical considerations for mapping activation in human cardiac fibrillation. *Chaos*, **2013**, 23, 023113	3.3	63
30	Thinking outside the Box: Rotor Modulation in the Treatment of Atrial Fibrillation. *Journal of Atrial Fibrillation*, **2013**, 6, 811	0.8	

29	Clinical mapping approach to diagnose electrical rotors and focal impulse sources for human atrial fibrillation. *Journal of Cardiovascular Electrophysiology*, **2012**, 23, 447-54	2.7	235
28	Mechanisms of human atrial fibrillation initiation: clinical and computational studies of repolarization restitution and activation latency. *Circulation: Arrhythmia and Electrophysiology*, **2012** , 5, 1149-59	6.4	72
27	Atrial conduction slows immediately before the onset of human atrial fibrillation: a bi-atrial contact mapping study of transitions to atrial fibrillation. *Journal of the American College of Cardiology*, **2012**, 59, 595-606	15.1	76
26	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. *Journal of the American College of Cardiology*, **2012**, 60, 628-36	15.1	766
25	Computational mapping identifies localized mechanisms for ablation of atrial fibrillation. *PLoS ONE*, **2012**, 7, e46034	3.7	75
24	Early temporal and spatial regularization of persistent atrial fibrillation predicts termination and arrhythmia-free outcome. *Heart Rhythm*, **2011**, 8, 1374-82	6.7	21
23	Highlights of the year in JACC 2010. *Journal of the American College of Cardiology*, **2011**, 57, 480-514	15.1	1
22	Microvolt T-wave alternans physiological basis, methods of measurement, and clinical utility--consensus guideline by International Society for Holter and Noninvasive Electrocardiology. *Journal of the American College of Cardiology*, **2011**, 58, 1309-24	15.1	294
21	Classifying fractionated electrograms in human atrial fibrillation using monophasic action potentials and activation mapping: evidence for localized drivers, rate acceleration, and nonlocal signal etiologies. *Heart Rhythm*, **2011**, 8, 244-53	6.7	138
20	HRS policy statement: clinical cardiac electrophysiology fellowship curriculum: update 2011. *Heart Rhythm*, **2011**, 8, 1340-56	6.7	11
19	Repolarization alternans reveals vulnerability to human atrial fibrillation. *Circulation*, **2011**, 123, 2922-30	16.7	132
18	Accurate ECG diagnosis of atrial tachyarrhythmias using quantitative analysis: a prospective diagnostic and cost-effectiveness study. *Journal of Cardiovascular Electrophysiology*, **2010**, 21, 1251-9	2.7	18
17	Highlights of the Year in JACC 2009. *Journal of the American College of Cardiology*, **2010**, 55, 380-407	15.1	0
16	Centrifugal gradients of rate and organization in human atrial fibrillation. *PACE - Pacing and Clinical Electrophysiology*, **2009**, 32, 1366-78	1.6	26
15	Long-term follow-up of idiopathic ventricular fibrillation ablation: a multicenter study. *Journal of the American College of Cardiology*, **2009**, 54, 522-8	15.1	194
14	Repolarization and activation restitution near human pulmonary veins and atrial fibrillation initiation: a mechanism for the initiation of atrial fibrillation by premature beats. *Journal of the American College of Cardiology*, **2008**, 52, 1222-30	15.1	106
13	Action potential dynamics explain arrhythmic vulnerability in human heart failure: a clinical and modeling study implicating abnormal calcium handling. *Journal of the American College of Cardiology*, **2008**, 52, 1782-92	15.1	90
12	Steep restitution of ventricular action potential duration and conduction slowing in human Brugada syndrome. *Heart Rhythm*, **2007**, 4, 1087-9	6.7	20

11	Using electrocardiographic activation time and diastolic intervals to separate focal from macro-re-entrant atrial tachycardias. *Journal of the American College of Cardiology*, **2007**, 49, 1965-73	15.1	32
10	T-wave alternans, restitution of human action potential duration, and outcome. *Journal of the American College of Cardiology*, **2007**, 50, 2385-92	15.1	73
9	T-wave alternans and the susceptibility to ventricular arrhythmias. *Journal of the American College of Cardiology*, **2006**, 47, 269-81	15.1	262
8	Evaluating fluctuations in human atrial fibrillatory cycle length using monophasic action potentials. *PACE - Pacing and Clinical Electrophysiology*, **2006**, 29, 1209-18	1.6	38
7	Separating non-isthmus- from isthmus-dependent atrial flutter using wavefront variability. *Journal of the American College of Cardiology*, **2005**, 45, 1269-79	15.1	20
6	Separating atrial flutter from atrial fibrillation with apparent electrocardiographic organization using dominant and narrow F-wave spectra. *Journal of the American College of Cardiology*, **2005**, 46, 2079-87	15.1	32
5	Implantable defibrillators with and without resynchronization for patients with left ventricular dysfunction. *Texas Heart Institute Journal*, **2005**, 32, 358-61	0.8	
4	Temporal and spatial phase analyses of the electrocardiogram stratify intra-atrial and intra-ventricular organization. *IEEE Transactions on Biomedical Engineering*, **2004**, 51, 1749-64	5	17
3	Quantifying intracardiac organization of atrial arrhythmias using temporospatial phase of the electrocardiogram. *Journal of Cardiovascular Electrophysiology*, **2003**, 14, 971-81	2.7	13
2	Alternans of atrial action potentials during atrial flutter as a precursor to atrial fibrillation. *Circulation*, **2002**, 106, 1968-73	16.7	118
1	Demonstration of the proarrhythmic preconditioning of single premature extrastimuli by use of the magnitude, phase, and distribution of repolarization alternans. *Circulation*, **1999**, 100, 1887-93	16.7	33