

Laurent Roten

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

111
papers

2,475
citations

26
h-index

48
g-index

131
ext. papers

3,150
ext. citations

4.5
avg, IF

4.2
L-index

#	Paper	IF	Citations
111	Elimination of local abnormal ventricular activities: a new end point for substrate modification in patients with scar-related ventricular tachycardia. <i>Circulation</i> , 2012 , 125, 2184-96	16.7	390
110	Five-year outcome of catheter ablation of persistent atrial fibrillation using termination of atrial fibrillation as a procedural endpoint. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2015 , 8, 18-24	6.4	179
109	Inverse relationship between fractionated electrograms and atrial fibrosis in persistent atrial fibrillation: combined magnetic resonance imaging and high-density mapping. <i>Journal of the American College of Cardiology</i> , 2013 , 62, 802-12	15.1	164
108	Incidence and predictors of atrioventricular conduction impairment after transcatheter aortic valve implantation. <i>American Journal of Cardiology</i> , 2010 , 106, 1473-80	3	135
107	Atrial remodeling, autonomic tone, and lifetime training hours in nonelite athletes. <i>American Journal of Cardiology</i> , 2011 , 108, 580-5	3	128
106	Regional myocardial wall thinning at multidetector computed tomography correlates to arrhythmogenic substrate in postinfarction ventricular tachycardia: assessment of structural and electrical substrate. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2013 , 6, 342-50	6.4	81
105	Relationships of Overt and Silent Brain Lesions With Cognitive Function in Patients With Atrial Fibrillation. <i>Journal of the American College of Cardiology</i> , 2019 , 73, 989-999	15.1	80
104	Endocardial ablation to eliminate epicardial arrhythmia substrate in scar-related ventricular tachycardia. <i>Journal of the American College of Cardiology</i> , 2014 , 63, 1416-26	15.1	75
103	Integration of merged delayed-enhanced magnetic resonance imaging and multidetector computed tomography for the guidance of ventricular tachycardia ablation: a pilot study. <i>Journal of Cardiovascular Electrophysiology</i> , 2013 , 24, 419-26	2.7	75
102	Catheter ablation of arrhythmias in ebstein@ anomaly: a multicenter study. <i>Journal of Cardiovascular Electrophysiology</i> , 2011 , 22, 1391-6	2.7	65
101	Validation of novel 3-dimensional electrocardiographic mapping of atrial tachycardias by invasive mapping and ablation: a multicenter study. <i>Journal of the American College of Cardiology</i> , 2013 , 62, 889-97	15.1	64
100	Rhabdomyolysis in association with simvastatin and amiodarone. <i>Annals of Pharmacotherapy</i> , 2004 , 38, 978-81	2.9	60
99	Gender differences in patients referred for atrial fibrillation management to a tertiary center. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2009 , 32, 622-6	1.6	56
98	Endocardial versus epicardial ventricular radiofrequency ablation: utility of in vivo contact force assessment. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2013 , 6, 144-50	6.4	53
97	Gender differences of atrial and ventricular remodeling and autonomic tone in nonelite athletes. <i>American Journal of Cardiology</i> , 2011 , 108, 1489-95	3	51
96	Role of electrophysiological studies in predicting risk of ventricular arrhythmia in early repolarization syndrome. <i>Journal of the American College of Cardiology</i> , 2015 , 65, 151-9	15.1	46
95	Ajmaline attenuates electrocardiogram characteristics of inferolateral early repolarization. <i>Heart Rhythm</i> , 2012 , 9, 232-9	6.7	42

94	Prevalence and types of pitfall in the assessment of mitral isthmus linear conduction block. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2012 , 5, 957-67	6.4	42
93	Atrioventricular conduction after transcatheter aortic valve implantation and surgical aortic valve replacement. <i>Journal of Cardiovascular Electrophysiology</i> , 2012 , 23, 1115-22	2.7	37
92	Electrophysiologic characterization of local abnormal ventricular activities in postinfarction ventricular tachycardia with respect to their anatomic location. <i>Heart Rhythm</i> , 2013 , 10, 1630-7	6.7	36
91	Prevalence of asymptomatic and electrically undetectable intracardiac inside-out abrasion in silicon-coated Riata [®] and Riata [®] ST implantable cardioverter-defibrillator leads. <i>International Journal of Cardiology</i> , 2013 , 167, 254-7	3.2	34
90	Heterogeneous response of J-wave syndromes to beta-adrenergic stimulation. <i>Heart Rhythm</i> , 2012 , 9, 1970-6	6.7	32
89	Is 7-day event triggered ECG recording equivalent to 7-day Holter ECG recording for atrial fibrillation screening?. <i>Heart</i> , 2012 , 98, 645-9	5.1	30
88	Design of the Swiss Atrial Fibrillation Cohort Study (Swiss-AF): structural brain damage and cognitive decline among patients with atrial fibrillation. <i>Swiss Medical Weekly</i> , 2017 , 147, w14467	3.1	30
87	Benign vs. malignant inferolateral early repolarization: Focus on the T wave. <i>Heart Rhythm</i> , 2016 , 13, 894-902	6.7	27
86	Long-term cardiac remodeling and arrhythmias in nonelite marathon runners. <i>American Journal of Cardiology</i> , 2012 , 110, 129-35	3	26
85	Pattern and timing of the coronary sinus activation to guide rapid diagnosis of atrial tachycardia after atrial fibrillation ablation. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2013 , 6, 481-90	6.4	25
84	Catheter ablation of atrial fibrillation as first-line therapy--a single-centre experience. <i>Europace</i> , 2011 , 13, 646-53	3.9	24
83	New-onset arrhythmias following transcatheter aortic valve implantation: a systematic review and meta-analysis. <i>Heart</i> , 2018 , 104, 1208-1215	5.1	21
82	Length of the Mitral Isthmus But Not Anatomical Location of Ablation Line Predicts Bidirectional Mitral Isthmus Block in Patients Undergoing Catheter Ablation of Persistent Atrial Fibrillation: A Randomized Controlled Trial. <i>Journal of Cardiovascular Electrophysiology</i> , 2015 , 26, 629-34	2.7	21
81	Failure rate and conductor externalization in the Biotronik Linx/Sorin Vigila implantable cardioverter-defibrillator lead. <i>Heart Rhythm</i> , 2016 , 13, 1075-1082	6.7	19
80	Training-related modulations of the autonomic nervous system in endurance athletes: is female gender cardioprotective?. <i>European Journal of Applied Physiology</i> , 2013 , 113, 631-40	3.4	19
79	Incidence and Predictors of Atrial Fibrillation Progression. <i>Journal of the American Heart Association</i> , 2019 , 8, e012554	6	17
78	Mitral isthmus ablation with and without temporary spot occlusion of the coronary sinus: a randomized clinical comparison of acute outcomes. <i>Journal of Cardiovascular Electrophysiology</i> , 2012 , 23, 489-96	2.7	17
77	Body Surface Electrocardiographic Mapping for Non-invasive Identification of Arrhythmic Sources. <i>Arrhythmia and Electrophysiology Review</i> , 2013 , 2, 16-22	3.2	16

76	Current hot potatoes in atrial fibrillation ablation. <i>Current Cardiology Reviews</i> , 2012 , 8, 327-46	2.4	14
75	Software-based detection of atrial fibrillation in long-term ECGs. <i>Heart Rhythm</i> , 2014 , 11, 933-8	6.7	13
74	Pulmonary veins to left atrium cycle length gradient predicts procedural and clinical outcomes of persistent atrial fibrillation ablation. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2014 , 7, 473-82	6.4	12
73	Noninvasive electrocardiographic mapping for prediction of tachycardia mechanism and origin of atrial tachycardia following bilateral pulmonary transplantation. <i>Journal of Cardiovascular Electrophysiology</i> , 2012 , 23, 553-5	2.7	11
72	Disparate activation of the coronary sinus and inferior left atrium during atrial tachycardia after persistent atrial fibrillation ablation: prevalence, pitfalls, and impact on mapping. <i>Journal of Cardiovascular Electrophysiology</i> , 2012 , 23, 697-707	2.7	11
71	Stereotactic Radiotherapy for the Management of Refractory Ventricular Tachycardia: Promise and Future Directions. <i>Frontiers in Cardiovascular Medicine</i> , 2020 , 7, 108	5.4	10
70	Covert Brain Infarction: Towards Precision Medicine in Research, Diagnosis, and Therapy for a Silent Pandemic. <i>Stroke</i> , 2020 , 51, 2597-2606	6.7	10
69	Phenotypic Spectrum of Mutations: A Clinical Case. <i>Circulation Genomic and Precision Medicine</i> , 2018 , 11, e002033	5.2	10
68	Catheter ablation for persistent atrial fibrillation: elimination of triggers is not sufficient. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2012 , 5, 1224-32; discussion 1232	6.4	10
67	Sex-Related Differences in Cardiac Channelopathies: Implications for Clinical Practice. <i>Circulation</i> , 2021 , 143, 739-752	16.7	10
66	Useful Electrocardiographic Features to Help Identify the Mechanism of Atrial Tachycardia Occurring After Persistent Atrial Fibrillation Ablation. <i>JACC: Clinical Electrophysiology</i> , 2018 , 4, 33-45	4.6	9
65	Usefulness of Genetic Testing in Sudden Cardiac Arrest Survivors With or Without Previous Clinical Evidence of Heart Disease. <i>American Journal of Cardiology</i> , 2019 , 123, 2031-2038	3	7
64	The optimal lead insertion depth for esophageal ECG recordings with respect to atrial signal quality. <i>Journal of Electrocardiology</i> , 2013 , 46, 158-65	1.4	6
63	QRS alternans and cycle length oscillation during narrow QRS tachycardia. <i>Europace</i> , 2008 , 10, 681-2, 778	3.9	6
62	Unexpected high failure rate of a specific MicroPort/LivaNova/Sorin pacing lead. <i>Heart Rhythm</i> , 2021 , 18, 41-49	6.7	6
61	Leadless pacemaker implantation quality: importance of the operator's experience. <i>Europace</i> , 2020 , 22, 939-946	3.9	5
60	Unexplained cardiac arrest: a tale of conflicting interpretations of KCNQ1 genetic test results. <i>Clinical Research in Cardiology</i> , 2018 , 107, 670-678	6.1	5
59	Electrocardiographic characteristics of patients with funnel chest before and after surgical correction using pectus bar: A new association with precordial J wave pattern. <i>Journal of Electrocardiology</i> , 2016 , 49, 174-81	1.4	5

58	Radiofrequency ablation lesion assessment using optical coherence tomography - a proof-of-concept study. <i>Journal of Cardiovascular Electrophysiology</i> , 2019 , 30, 934-940	2.7	4
57	A High Baseline Electrographic Organization Level Is Predictive of Successful Termination of Persistent Atrial Fibrillation by Catheter Ablation. <i>JACC: Clinical Electrophysiology</i> , 2016 , 2, 746-755	4.6	4
56	What next after failed septal ventricular tachycardia ablation?. <i>Indian Pacing and Electrophysiology Journal</i> , 2012 , 12, 180-5	1.5	4
55	Irregular tachycardia: what is the mechanism? Part I. <i>Europace</i> , 2009 , 11, 115-6, 129	3.9	4
54	Sex-related electrocardiographic differences in patients with different types of atrial fibrillation: Results from the SWISS-AF study. <i>International Journal of Cardiology</i> , 2020 , 307, 63-70	3.2	4
53	Valvular and Nonvalvular Atrial Fibrillation in Patients Undergoing Transcatheter Aortic Valve Replacement. <i>JACC: Cardiovascular Interventions</i> , 2020 , 13, 2124-2133	5	4
52	Leadless atrio-ventricular synchronous pacing in an outpatient setting - early lessons learned on factors affecting atrio-ventricular synchrony.. <i>Heart Rhythm</i> , 2021 ,	6.7	4
51	Ablation of Persistent Atrial Fibrillation: AF Termination is the End Point. <i>Cardiac Electrophysiology Clinics</i> , 2012 , 4, 335-42	1.4	3
50	Silent brain infarcts impact on cognitive function in atrial fibrillation.. <i>European Heart Journal</i> , 2022 ,	9.5	3
49	Prevalence of abnormal electrocardiograms in Swiss elite athletes detected with modern screening criteria. <i>Swiss Medical Weekly</i> , 2016 , 146, w14376	3.1	3
48	The search for atrial fibrillation and its impact on public health. <i>Swiss Medical Weekly</i> , 2017 , 147, w144473.1	3.1	3
47	ECG-Based Indices to Characterize Persistent Atrial Fibrillation Before and During Stepwise Catheter Ablation. <i>Frontiers in Physiology</i> , 2021 , 12, 654053	4.6	3
46	Validation of the 2019 Expert Consensus Algorithm for the Management of Conduction Disturbances After TAVR. <i>JACC: Cardiovascular Interventions</i> , 2021 , 14, 981-991	5	3
45	Blood Pressure and Brain Lesions in Patients With Atrial Fibrillation. <i>Hypertension</i> , 2021 , 77, 662-671	8.5	3
44	Unexplained Cardiac Arrest in an Apparently Healthy Young Woman: What Is the Underlying Substrate of the Arrhythmia?. <i>Circulation</i> , 2018 , 137, 1863-1866	16.7	2
43	Markers for silent atrial fibrillation in esophageal long-term electrocardiography. <i>Journal of Electrocardiology</i> , 2016 , 49, 496-503	1.4	2
42	The Double transition: a novel electrocardiogram sign to discriminate posteroseptal accessory pathways ablated from the right endocardium from those requiring a left-sided or epicardial coronary venous approach. <i>Europace</i> , 2020 , 22, 1703-1711	3.9	2
41	Insulin-like growth factor-binding protein 7 and risk of congestive heart failure hospitalization in patients with atrial fibrillation. <i>Heart Rhythm</i> , 2021 , 18, 512-519	6.7	2

40	Comparison of lead failure manifestation of Biotronik Linx with St. Jude Medical Riata and Medtronic Sprint Fidelis lead. <i>Journal of Interventional Cardiac Electrophysiology</i> , 2019 , 54, 161-170	2.4	2
39	Novel bleeding risk score for patients with atrial fibrillation on oral anticoagulants, including direct oral anticoagulants. <i>Journal of Thrombosis and Haemostasis</i> , 2021 , 19, 931-940	15.4	2
38	Phenotypes of Chronic Covert Brain Infarction in Patients With First-Ever Ischemic Stroke: A Cohort Study. <i>Stroke</i> , 2021 , STROKEAHA121034347	6.7	2
37	How to Reach the Left Atrium in Atrial Fibrillation Ablation?: Patent Foramen Ovale Versus Transseptal Puncture. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2019 , 12, e006744	6.4	1
36	Response to "Electrocardiographic sexual differences in patients with atrial fibrillation". <i>International Journal of Cardiology</i> , 2020 , 308, 50-51	3.2	1
35	Identifying coronary artery disease patients at risk for sudden and/or arrhythmic death: remaining limitations of the electrocardiogram. <i>European Heart Journal</i> , 2020 , 41, 2911-2912	9.5	1
34	Effect of acute myocardial ischemia on inferolateral early repolarization. <i>Heart Rhythm</i> , 2020 , 17, 922-930	3.7	1
33	Three-dimensional electroanatomic entrainment map in atypical atrial flutter late after heart transplantation. <i>Europace</i> , 2010 , 12, 290-2	3.9	1
32	Association of Diabetes With Atrial Fibrillation Phenotype and Cardiac and Neurological Comorbidities: Insights From the Swiss-AF Study. <i>Journal of the American Heart Association</i> , 2021 , 10, e021800	6	1
31	Use of the wearable cardioverter-defibrillator - the Swiss experience. <i>Swiss Medical Weekly</i> , 2020 , 150, w20343	3.1	1
30	Severe and uniform bi-atrial remodeling measured by dominant frequency analysis in persistent atrial fibrillation unresponsive to ablation. <i>Journal of Interventional Cardiac Electrophysiology</i> , 2020 , 59, 431-440	2.4	1
29	Efficacy and safety of ethanol infusion into the vein of Marshall for mitral isthmus ablation. <i>Journal of Cardiovascular Electrophysiology</i> , 2021 , 32, 1610-1619	2.7	1
28	Electrocardiographic predictors of mortality in patients after percutaneous coronary interventions - a nested case-control study. <i>Acta Cardiologica</i> , 2019 , 74, 341-349	0.9	1
27	Impact of contact force sensing technology on outcome of catheter ablation of idiopathic pre-mature ventricular contractions originating from the outflow tracts. <i>Europace</i> , 2021 , 23, 603-609	3.9	1
26	Permanent pacemaker implantation late after transcatheter aortic valve implantation. <i>Heart Rhythm</i> , 2021 , 18, 2033-2039	6.7	1
25	Subclinical thyroid function and cardiovascular events in patients with atrial fibrillation. <i>European Journal of Endocrinology</i> , 2021 , 185, 375-385	6.5	1
24	Dormant pulmonary vein conduction before ablation revealed by adenosine: evidence for intermittent venoatrial conduction?. <i>Europace</i> , 2017 , 19, 694	3.9	0
23	Long-term risk of adverse outcomes according to atrial fibrillation type.. <i>Scientific Reports</i> , 2022 , 12, 2208	3.9	0

22	The SilenT AtRial FIBrillation (STAR-FIB) study programme - design and rationale. <i>Swiss Medical Weekly</i> , 2021 , 151, w20421	3.1	o
21	Technical and procedural comparison of two different cryoballoon ablation systems in patients with atrial fibrillation. <i>Journal of Interventional Cardiac Electrophysiology</i> , 2021 , 1	2.4	o
20	Biomarkers, Clinical Variables, and the CHA2DS2-VASc Score to Detect Silent Brain Infarcts in Atrial Fibrillation Patients. <i>Journal of Stroke</i> , 2021 , 23, 449-452	5.6	o
19	Association of pulmonary vein isolation and major cardiovascular events in patients with atrial fibrillation.. <i>Clinical Research in Cardiology</i> , 2022 , 1	6.1	o
18	Exotic Atrial Tachycardias. <i>Cardiac Electrophysiology Clinics</i> , 2013 , 5, 237-251	1.4	
17	When differential pacing is not enough to assess mitral isthmus block: importance of the pacing threshold. <i>Journal of Cardiovascular Electrophysiology</i> , 2012 , 23, 336-8	2.7	
16	Atrial tachycardia after atrial fibrillation ablation: what is the mechanism?. <i>Journal of Cardiovascular Electrophysiology</i> , 2012 , 23, 791-3	2.7	
15	Diagnosis of Macroreentrant Atrial Tachycardia. <i>Cardiac Electrophysiology Clinics</i> , 2013 , 5, 189-194	1.4	
14	Differentiating Right from Left Atrial Tachycardias. <i>Cardiac Electrophysiology Clinics</i> , 2013 , 5, 169-177	1.4	
13	Catheter Ablation of Ventricular Fibrillation Storms: Will this Replace Defibrillators?. <i>Cardiac Electrophysiology Clinics</i> , 2011 , 3, 689-695	1.4	
12	Pathogenesis of AF: impact on intracardiac signals. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 5523-6	0.9	
11	Letter by Meinel et al. regarding article, "Incidental findings on 3T neuroimaging: cross-sectional observations from the population-based Rhineland Study".. <i>Neuroradiology</i> , 2022 , 64, 429	3.2	
10	Catheter Ablation of Atrial Tachycardia in a Giant Right Atrium. <i>JACC: Case Reports</i> , 2020 , 2, 230-234	1.2	
9	Dynamics of Intraprocedural Dominant Frequency Identifies Ablation Outcome in Persistent Atrial Fibrillation. <i>Frontiers in Physiology</i> , 2021 , 12, 731917	4.6	
8	Outcome of video-assisted thoracoscopic implantation of epicardial left ventricular leads with visual targeting for cardiac resynchronization therapy. <i>Interactive Cardiovascular and Thoracic Surgery</i> , 2020 , 30, 373-379	1.8	
7	High incidence of diaphragmatic myopotential oversensing by a specific implantable cardioverter defibrillator. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2020 , 43, 234-239	1.6	
6	Optical coherence tomography allows 3D reconstruction of ablation lesions. <i>European Heart Journal Cardiovascular Imaging</i> , 2020 , 21, 468	4.1	
5	Pre-procedural arrhythmia burden and the outcome of catheter ablation of idiopathic premature ventricular complexes. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2021 , 44, 703-710	1.6	

4	Catheter-Induced Cement Embolism During Attempted Ablation Procedure. <i>JACC: Case Reports</i> , 2021 , 3, 1114-1118	1.2
3	176-48: Lead failure rate and failure manifestation of the Biotronik Linx lead compared to the St. Jude Medical Riata lead and the Medtronic Sprint Fidelis lead. <i>Europace</i> , 2016 , 18, i129-i129	3.9
2	Association of the CHAD(S)-VASc Score and Its Components With Overt and Silent Ischemic Brain Lesions in Patients With Atrial Fibrillation. <i>Frontiers in Neurology</i> , 2020 , 11, 609234	4.1
1	Reply to-MicroPort CRM considerations on Beflex/Vega pacing lead performance. <i>Heart Rhythm</i> , 2021 , 18, 1634-1635	6.7