

# Josselin Duchateau

## List of Publications by Year in descending order

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97  
papers

2,552  
citations

172207

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docs citations

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citing authors

#	ARTICLE	IF	CITATIONS
1	High-power short-duration versus standard radiofrequency ablation: Insights on lesion metrics. <i>Journal of Cardiovascular Electrophysiology</i> , 2018, 29, 1570-1575.	0.8	159
2	Performance and limitations of noninvasive cardiac activation mapping. <i>Heart Rhythm</i> , 2019, 16, 435-442.	0.3	108
3	Pulsed field ablation selectively spares the oesophagus during pulmonary vein isolation for atrial fibrillation. <i>Europace</i> , 2021, 23, 1391-1399.	0.7	82
4	Mapping and Ablation of Ventricular Fibrillation Associated With Early Repolarization Syndrome. <i>Circulation</i> , 2019, 140, 1477-1490.	1.6	80
5	Revisiting anatomic macroreentrant tachycardia after atrial fibrillation ablation using ultrahigh-resolution mapping: Implications for ablation. <i>Heart Rhythm</i> , 2018, 15, 326-333.	0.3	73
6	Characteristics of Scar-Related Ventricular Tachycardia Circuits Using Ultra-High-Density Mapping. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2018, 11, e006569.	2.1	72
7	Localized Structural Alterations Underlying a Subset of Unexplained Sudden Cardiac Death. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2018, 11, e006120.	2.1	67
8	Electrogram signature of specific activation patterns: Analysis of atrial tachycardias at high-density endocardial mapping. <i>Heart Rhythm</i> , 2018, 15, 28-37.	0.3	66
9	Marshall bundle elimination, Pulmonary vein isolation, and Line completion for ANatomical ablation of persistent atrial fibrillation (Marshall-PLAN): Prospective, single-center study. <i>Heart Rhythm</i> , 2021, 18, 529-537.	0.3	65
10	The role of Marshall bundle epicardial connections in atrial tachycardias after atrial fibrillation ablation. <i>Heart Rhythm</i> , 2019, 16, 1341-1347.	0.3	62
11	MARSHALL bundles elimination, Pulmonary veins isolation and Lines completion for ANatomical ablation of persistent atrial fibrillation: MARSHALL-PLAN case series. <i>Journal of Cardiovascular Electrophysiology</i> , 2019, 30, 7-15.	0.8	62
12	Epicardial course of the septopulmonary bundle: Anatomical considerations and clinical implications for roof line completion. <i>Heart Rhythm</i> , 2021, 18, 349-357.	0.3	62
13	Idiopathic Ventricular Fibrillation. <i>JACC: Clinical Electrophysiology</i> , 2020, 6, 591-608.	1.3	60
14	First clinical use of novel ablation catheter incorporating local impedance data. <i>Journal of Cardiovascular Electrophysiology</i> , 2018, 29, 1197-1206.	0.8	59
15	Characteristics of Single-Loop Macroreentrant Batrial Tachycardia Diagnosed by Ultrahigh-Resolution Mapping System. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2018, 11, e005558.	2.1	57
16	Spatially Coherent Activation Maps for Electrocardiographic Imaging. <i>IEEE Transactions on Biomedical Engineering</i> , 2017, 64, 1149-1156.	2.5	55
17	Depolarization versus repolarization abnormality underlying inferolateral J-wave syndromes: New concepts in sudden cardiac death with apparently normal hearts. <i>Heart Rhythm</i> , 2019, 16, 781-790.	0.3	52
18	Non-invasive cardiac mapping in clinical practice: Application to the ablation of cardiac arrhythmias. <i>Journal of Electrocardiology</i> , 2015, 48, 966-974.	0.4	51

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19	Long-Term Outcome of Substrate Modification in Ablation of Post-Myocardial Infarction Ventricular Tachycardia. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2018, 11, e005635.	2.1	51
20	Impact of Vein of Marshall Ethanol Infusion on Mitral Isthmus Block. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2020, 13, e008884.	2.1	49
21	Are wall thickness channels defined by computed tomography predictive of isthmuses of postinfarction ventricular tachycardia?. <i>Heart Rhythm</i> , 2019, 16, 1661-1668.	0.3	47
22	Effect of bipolar electrode orientation on local electrogram properties. <i>Heart Rhythm</i> , 2018, 15, 1853-1861.	0.3	46
23	Pulsed field ablation prevents chronic atrial fibrotic changes and restrictive mechanics after catheter ablation for atrial fibrillation. <i>Europace</i> , 2021, 23, 1767-1776.	0.7	43
24	Local catheter impedance drop during pulmonary vein isolation predicts acute conduction block in patients with paroxysmal atrial fibrillation: initial results of the LOCALIZE clinical trial. <i>Europace</i> , 2021, 23, 1042-1051.	0.7	42
25	Distinctive Left Ventricular Activations Associated With ECG Pattern in Heart Failure Patients. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2017, 10, .	2.1	41
26	Mechanism of Recurrence of Atrial Tachycardia. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2020, 13, e007273.	2.1	41
27	Vein of Marshall Ethanol Infusion: Feasibility, Pitfalls, and Complications in Over 700 Patients. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2021, 14, e010001.	2.1	38
28	Characterizing localized reentry with high-resolution mapping: Evidence for multiple slow conducting isthmuses within the circuit. <i>Heart Rhythm</i> , 2019, 16, 679-685.	0.3	37
29	Comprehensive Multicenter Study of the Common Isthmus in Post-Atrial Fibrillation Ablation Multiple-Loop Atrial Tachycardia. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2018, 11, e006019.	2.1	34
30	Use of Novel Electrogram "Lumipoint" Algorithm to Detect Critical Isthmus and Abnormal Potentials for Ablation in Ventricular Tachycardia. <i>JACC: Clinical Electrophysiology</i> , 2019, 5, 470-479.	1.3	34
31	Insights from atrial surface activation throughout atrial tachycardia cycle length: A new mapping tool. <i>Heart Rhythm</i> , 2019, 16, 1652-1660.	0.3	31
32	Purkinje network and myocardial substrate at the onset of human ventricular fibrillation: implications for catheter ablation. <i>European Heart Journal</i> , 2022, 43, 1234-1247.	1.0	30
33	Ethanol infusion for Marshall bundle epicardial connections in Marshall bundle-related atrial tachycardias following atrial fibrillation ablation: The accessibility and success rate of ethanol infusion by using a femoral approach. <i>Journal of Cardiovascular Electrophysiology</i> , 2019, 30, 1443-1451.	0.8	27
34	Temperature- and flow-controlled ablation/very-high-power short-duration ablation vs conventional power-controlled ablation: Comparison of focal and linear lesion characteristics. <i>Heart Rhythm</i> , 2021, 18, 553-561.	0.3	26
35	Atrial fibrillation in Brugada syndrome: Current perspectives. <i>Journal of Cardiovascular Electrophysiology</i> , 2020, 31, 975-984.	0.8	25
36	Post-Myocardial Infarction Scar With Fat Deposition Shows Specific Electrophysiological Properties and Worse Outcome After Ventricular Tachycardia Ablation. <i>Journal of the American Heart Association</i> , 2019, 8, e012482.	1.6	24

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37	Acute and mid-term outcome of ethanol infusion of vein of Marshall for the treatment of perimitral flutter. <i>Europace</i> , 2020, 22, 1252-1260.	0.7	24
38	Advantages and pitfalls of noninvasive electrocardiographic imaging. <i>Journal of Electrocardiology</i> , 2019, 57, S15-S20.	0.4	23
39	Detailed Analysis of the Relation Between Bipolar Electrode Spacing and Far- and Near-Field Electrograms. <i>JACC: Clinical Electrophysiology</i> , 2019, 5, 66-77.	1.3	23
40	Compartmentalized Structure of the Moderator Band Provides a Unique Substrate for Macroreentrant Ventricular Tachycardia. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2018, 11, e005913.	2.1	22
41	Maximal Pre-Excitation Based Algorithm for Localization of Manifest Accessory Pathways in Adults. <i>JACC: Clinical Electrophysiology</i> , 2018, 4, 1052-1061.	1.3	22
42	Impact of Spacing and Orientation on the Scar Threshold With a High-Density Grid Catheter. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2019, 12, e007158.	2.1	22
43	Effect of Activation Wavefront on Electrogram Characteristics During Ventricular Tachycardia Ablation. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2019, 12, e007293.	2.1	21
44	Noninvasive Mapping and Electrocardiographic Imaging in Atrial and Ventricular Arrhythmias (CardioInsight). <i>Cardiac Electrophysiology Clinics</i> , 2019, 11, 459-471.	0.7	20
45	Detailed comparison between the wall thickness and voltages in chronic myocardial infarction. <i>Journal of Cardiovascular Electrophysiology</i> , 2019, 30, 195-204.	0.8	20
46	Impedance, power, and current in radiofrequency ablation: Insights from technical, ex vivo, and clinical studies. <i>Journal of Cardiovascular Electrophysiology</i> , 2020, 31, 2836-2845.	0.8	20
47	Characterization of Complex Atrial Tachycardia in Patients With Previous Atrial Interventions Using High-Resolution Mapping. <i>JACC: Clinical Electrophysiology</i> , 2020, 6, 815-826.	1.3	20
48	Ultralow temperature cryoablation: Safety and efficacy of preclinical atrial and ventricular lesions. <i>Journal of Cardiovascular Electrophysiology</i> , 2021, 32, 570-577.	0.8	19
49	A simple mechanism underlying the behavior of reentrant atrial tachycardia during ablation. <i>Heart Rhythm</i> , 2019, 16, 553-561.	0.3	17
50	Noninvasive Assessment of Atrial Fibrillation Complexity in Relation to Ablation Characteristics and Outcome. <i>Frontiers in Physiology</i> , 2018, 9, 929.	1.3	16
51	Substrate Mapping and Ablation for Ventricular Tachycardia in Patients with Structural Heart Disease: How to Identify Ventricular Tachycardia Substrate. <i>Journal of Innovations in Cardiac Rhythm Management</i> , 2019, 10, 3565-3580.	0.2	16
52	Ultra-High-Density Activation Mapping to Aid Isthmus Identification of Atrial Tachycardias in Congenital Heart Disease. <i>JACC: Clinical Electrophysiology</i> , 2019, 5, 1459-1472.	1.3	15
53	Epicardial course of the musculature related to the great cardiac vein: Anatomical considerations and clinical implications for mitral isthmus block after vein of Marshall ethanol infusion. <i>Heart Rhythm</i> , 2021, 18, 1951-1958.	0.3	15
54	Sex differences in the origin of Purkinje ectopy-initiated idiopathic ventricular fibrillation. <i>Heart Rhythm</i> , 2021, 18, 1647-1654.	0.3	15

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55	Cardiac Propagation Pattern Mapping With Vector Field for Helping Tachyarrhythmias Diagnosis With Clinical Tridimensional Electro-Anatomical Mapping Tools. IEEE Transactions on Biomedical Engineering, 2019, 66, 373-382.	2.5	14
56	Effectiveness of Deep Sedation for Patients With Intractable Electrical Storm Refractory to Antiarrhythmic Drugs. Circulation, 2020, 142, 1599-1601.	1.6	13
57	Estimation of Personalized Minimal Purkinje Systems From Human Electro-Anatomical Maps. IEEE Transactions on Medical Imaging, 2021, 40, 2182-2194.	5.4	13
58	In silico analysis of the relation between conventional and high-power short-duration RF ablation settings and resulting lesion metrics. Journal of Cardiovascular Electrophysiology, 2020, 31, 1332-1339.	0.8	12
59	Three-dimensional image integration guidance for cryoballoon pulmonary vein isolation procedures. Journal of Cardiovascular Electrophysiology, 2019, 30, 2790-2796.	0.8	11
60	How to perform ethanol ablation of the vein of Marshall for treatment of atrial fibrillation. Heart Rhythm, 2021, 18, 1083-1087.	0.3	11
61	Characteristics of macroreentrant atrial tachycardias using an anatomical bypass: Pseudo-focal atrial tachycardia case series. Journal of Cardiovascular Electrophysiology, 2021, 32, 2451-2461.	0.8	11
62	Purkinje triggers of ventricular fibrillation in patients with hypertrophic cardiomyopathy. Journal of Cardiovascular Electrophysiology, 2021, 32, 2987-2994.	0.8	11
63	Right ventricular outflow tract electroanatomical abnormalities in asymptomatic and high-risk symptomatic patients with Brugada syndrome: Evidence for a new risk stratification tool?. Journal of Cardiovascular Electrophysiology, 2021, 32, 2997-3007.	0.8	11
64	Diagnostic reproducibility of epinephrine drug challenge interpretation in suspected long QT syndrome. Journal of Cardiovascular Electrophysiology, 2019, 30, 896-901.	0.8	10
65	The Spectrum of Idiopathic Ventricular Fibrillation and J-Wave Syndromes. Cardiac Electrophysiology Clinics, 2019, 11, 699-709.	0.7	10
66	Differentiating atrial tachycardias with centrifugal activation: Lessons from high-resolution mapping. Heart Rhythm, 2021, 18, 1122-1131.	0.3	10
67	Management of acute cardiac tamponade by direct autologous blood transfusion in interventional electrophysiology. Journal of Cardiovascular Electrophysiology, 2019, 30, 1287-1293.	0.8	9
68	Use of high-density activation and voltage mapping in combination with entrainment to delineate gap-related atrial tachycardias post atrial fibrillation ablation. Europace, 2021, 23, 1052-1062.	0.7	9
69	Atrial tachycardia circuits include low voltage area from index atrial fibrillation ablation relationship between RF ablation lesion and AT. Journal of Cardiovascular Electrophysiology, 2020, 31, 1640-1648.	0.8	9
70	Distribution of atrial low voltage induced by vein of Marshall ethanol infusion. Journal of Cardiovascular Electrophysiology, 2022, 33, 1687-1693.	0.8	8
71	Optimized Computed Tomography Acquisition Protocol for Ethanol Infusion Into the Vein of Marshall. JACC: Clinical Electrophysiology, 2022, 8, 168-178.	1.3	7
72	High-density mapping of atrial tachycardias: Importance of interpolation. Journal of Cardiovascular Electrophysiology, 2018, 29, E7-E8.	0.8	6

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73	Does Ventricular Tachycardia Ablation Targeting Local Abnormal Ventricular Activity Elimination Reduce Ventricular Fibrillation Incidence?. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2019, 12, e006857.	2.1	5
74	Long-Lasting Ventricular Fibrillation in Humans ECG Characteristics and Effect of Radiofrequency Ablation. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2020, 13, e008639.	2.1	5
75	Ligament of Marshall ablation for persistent atrial fibrillation. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2021, 44, 782-791.	0.5	5
76	A novel method to correct repolarization time estimation from unipolar electrograms distorted by standard filtering. <i>Medical Image Analysis</i> , 2021, 72, 102075.	7.0	5
77	Role of endocardial ablation in eliminating an epicardial arrhythmogenic substrate in patients with Brugada syndrome. <i>Heart Rhythm</i> , 2021, 18, 1673-1681.	0.3	5
78	Insights Into the Spatiotemporal Patterns of Complexity of Ventricular Fibrillation by Multilead Analysis of Body Surface Potential Maps. <i>Frontiers in Physiology</i> , 2020, 11, 554838.	1.3	5
79	High-risk atrioventricular block in Brugada syndrome patients with a history of syncope. <i>Journal of Cardiovascular Electrophysiology</i> , 2021, 32, 772-781.	0.8	4
80	Significance of manifest localized staining during ethanol infusion into the vein of Marshall. <i>Heart Rhythm</i> , 2021, 18, 1057-1063.	0.3	4
81	Persistent atrial fibrillation ablation in cardiac laminopathy: Electrophysiological findings and clinical outcomes. <i>Heart Rhythm</i> , 2021, 18, 1115-1121.	0.3	4
82	Strategy for repeat procedures in patients with persistent atrial fibrillation: Systematic linear ablation with adjunctive ethanol infusion into the vein of Marshall versus electrophysiology-guided ablation. <i>Journal of Cardiovascular Electrophysiology</i> , 2022, 33, 1116-1124.	0.8	4
83	Abnormal Left Ventricular Contraction Sequence in Hypertrophic Cardiomyopathy Patients: First Description of Hypersynchrony and Invert Synchrony. <i>Ultrasound in Medicine and Biology</i> , 2015, 41, 1632-1639.	0.7	2
84	Larger and deeper ventricular lesions using a novel expandable spherical monopolar irrigated radiofrequency ablation catheter. <i>Journal of Cardiovascular Electrophysiology</i> , 2019, 30, 1644-1651.	0.8	2
85	Ventricular-triggered atrial pacing: A new maneuver for slow-fast atrioventricular nodal reentrant tachycardia. <i>Heart Rhythm</i> , 2020, 17, 955-964.	0.3	2
86	Local abnormal ventricular activity detection in scar-related VT: Microelectrode versus conventional bipolar electrode. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2021, 44, 1075-1084.	0.5	2
87	Accuracy of automatic abnormal potential annotation for substrate identification in scar-related ventricular tachycardia. <i>Journal of Cardiovascular Electrophysiology</i> , 2021, 32, 2216-2224.	0.8	2
88	Dormant conduction in the right ventricular outflow tract unmasked by adenosine in a patient with Brugada syndrome. <i>Journal of Cardiovascular Electrophysiology</i> , 2021, 32, 1182-1186.	0.8	1
89	A case of anomalous aortic origin of coronary artery associated with a coved-type electrocardiogram. <i>Journal of Cardiovascular Electrophysiology</i> , 2021, 32, 554-557.	0.8	1
90	Catheter Ablation for Atrial Fibrillation in Hyperthyroid Patients. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2021, 14, e010200.	2.1	1

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91	Reply to the Editorâ€™ Interpretation of electrograms is key to understand the clinical potential of ECGi. Heart Rhythm, 2019, 16, e52.	0.3	0
92	Reply to the Editorâ€™ Performance and limitations of noninvasive cardiac activation mapping. Heart Rhythm, 2019, 16, e51.	0.3	0
93	To the Editorâ€™ Reconsidering the reconsideration of the multiple wavelet hypothesis. Heart Rhythm, 2020, 17, 2221.	0.3	0
94	Pauseâ€™dependent mitral isthmus conduction block during ablation of the mitral isthmus: What is the mechanism?. Journal of Cardiovascular Electrophysiology, 2021, 32, 162-165.	0.8	0
95	Incidence of Vein of Marshall Stenosis After Ethanol Infusion. JACC: Clinical Electrophysiology, 2021, 7, 953-954.	1.3	0
96	Atrioventricular block with coronary sinus potential dissociation after lateral mitral isthmus block: What is the mechanism?. Journal of Cardiovascular Electrophysiology, 2021, 32, 874-877.	0.8	0
97	Personalization of ventricular cardiac conduction system models to reproduce patient electrocardiogram. , 2021, , .		0