

# Sven Knecht Sc Eth

## List of Publications by Year in descending order

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Version: 2024-02-01

76  
papers

1,560  
citations

516710

16  
h-index

315739

38  
g-index

78  
all docs

78  
docs citations

78  
times ranked

2288  
citing authors

#	ARTICLE	IF	CITATIONS
1	Remineralization of human dentin using ultrafine bioactive glass particles. <i>Acta Biomaterialia</i> , 2007, 3, 936-943.	8.3	276
2	Cartilage-like Tissue Engineering Using Silk Scaffolds and Mesenchymal Stem Cells. <i>Tissue Engineering</i> , 2006, 12, 2729-2738.	4.6	181
3	Effect of sodium hypochlorite on human root dentine – mechanical, chemical and structural evaluation. <i>International Endodontic Journal</i> , 2007, 40, 786-793.	5.0	166
4	A review on the mechanical quality of articular cartilage – Implications for the diagnosis of osteoarthritis. <i>Clinical Biomechanics</i> , 2006, 21, 999-1012.	1.2	110
5	Initial impedance decrease as an indicator of good catheter contact: Insights from radiofrequency ablation with force sensing catheters. <i>Heart Rhythm</i> , 2014, 11, 194-201.	0.7	92
6	Mechanical testing of fixation techniques for scaffold-based tissue-engineered grafts. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2007, 83B, 50-57.	3.4	77
7	Anatomical Predictors for Acute and Mid-Term Success of Cryoballoon Ablation of Atrial Fibrillation Using the 28 mm Balloon. <i>Journal of Cardiovascular Electrophysiology</i> , 2013, 24, 132-138.	1.7	69
8	Validation of a novel spiral mapping catheter for real-time recordings from the pulmonary veins during cryoballoon ablation of atrial fibrillation. <i>Heart Rhythm</i> , 2013, 10, 241-246.	0.7	50
9	Incidence of new-onset atrial fibrillation after cavotricuspid isthmus ablation for atrial flutter. <i>Europace</i> , 2017, 19, 1776-1780.	1.7	45
10	Phrenic nerve palsy during ablation of atrial fibrillation using a 28-mm cryoballoon catheter: predictors and prevention. <i>Journal of Interventional Cardiac Electrophysiology</i> , 2013, 36, 47-54.	1.3	38
11	Pacemaker Implantation and Need for Ventricular Pacing during Follow-Up after Transcatheter Aortic Valve Implantation. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2014, 37, 1592-1601.	1.2	37
12	Long-term comparison of cryoballoon and radiofrequency ablation of paroxysmal atrial fibrillation: A propensity score matched analysis. <i>International Journal of Cardiology</i> , 2014, 176, 645-650.	1.7	37
13	Contact force and impedance decrease during ablation depends on catheter location and orientation: insights from pulmonary vein isolation using a contact force-sensing catheter. <i>Journal of Interventional Cardiac Electrophysiology</i> , 2015, 43, 297-306.	1.3	30
14	Left atrial anatomy, atrial fibrillation burden, and P-wave duration – relationships and predictors for single-procedure success after pulmonary vein isolation. <i>Europace</i> , 2018, 20, 271-278.	1.7	26
15	Electrophysiology Testing to Stratify Patients With Left Bundle Branch Block After Transcatheter Aortic Valve Implantation. <i>Journal of the American Heart Association</i> , 2020, 9, e014446.	3.7	23
16	Quantitative assessment of a second-generation cryoballoon ablation catheter with new cooling technology – a perspective on potential implications on outcome. <i>Journal of Interventional Cardiac Electrophysiology</i> , 2014, 40, 17-21.	1.3	21
17	Fluoroscopy-Free Pulmonary Vein Isolation in Patients with Atrial Fibrillation and a Patent Foramen Ovale Using Solely an Electroanatomic Mapping System. <i>PLoS ONE</i> , 2016, 11, e0148059.	2.5	16
18	C-reactive protein for prediction of atrial fibrillation recurrence after catheter ablation. <i>BMC Cardiovascular Disorders</i> , 2020, 20, 427.	1.7	16

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19	Leadless pacemaker implantation quality: importance of the operator's experience. <i>Europace</i> , 2020, 22, 939-946.	1.7	15
20	Effective reduction of fluoroscopy duration by using an advanced electroanatomic-mapping system and a standardized procedural protocol for ablation of atrial fibrillation: 'the unleaded study'. <i>Europace</i> , 2015, 17, 1694-9.	1.7	14
21	Technical and procedural comparison of two different cryoballoon ablation systems in patients with atrial fibrillation. <i>Journal of Interventional Cardiac Electrophysiology</i> , 2022, 64, 409-416.	1.3	12
22	Conventional versus 3D Echocardiography to Predict Arrhythmia Recurrence After Atrial Fibrillation Ablation. <i>Journal of Cardiovascular Electrophysiology</i> , 2017, 28, 651-658.	1.7	11
23	Sex-specific efficacy and safety of cryoballoon versus radiofrequency ablation for atrial fibrillation: An individual patient data meta-analysis. <i>Heart Rhythm</i> , 2020, 17, 1232-1240.	0.7	11
24	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.	1.7	11
25	Efficacy and safety of a novel cryoballoon ablation system: multicentre comparison of 1-year outcome. <i>Europace</i> , 2022, 24, 1926-1932.	1.7	11
26	High-sensitive cardiac troponin T as a predictor of efficacy and safety after pulmonary vein isolation using focal radiofrequency, multielectrode radiofrequency and cryoballoon ablation catheter. <i>Open Heart</i> , 2019, 6, e000949.	2.3	10
27	Management of conduction disorders after transcatheter aortic valve implantation: results of the EHRA survey. <i>Europace</i> , 2022, 24, 1179-1185.	1.7	10
28	One-year follow-up after irrigated multi-electrode radiofrequency ablation of persistent atrial fibrillation. <i>Europace</i> , 2016, 18, 85-91.	1.7	9
29	Prevalence and Management of Atrial Thrombi in Patients With Atrial Fibrillation Before Pulmonary Vein Isolation. <i>JACC: Clinical Electrophysiology</i> , 2019, 5, 1406-1414.	3.2	9
30	State-of-the-art multimodality approach to assist ablations in complex anatomies"From 3D printing to virtual reality. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2019, 42, 101-103.	1.2	8
31	High-power short-duration ablation index"guided pulmonary vein isolation protocol using a single catheter. <i>Journal of Interventional Cardiac Electrophysiology</i> , 2022, 65, 633-642.	1.3	8
32	Changing exits in ventricular outflow tract tachycardia. <i>Heart Rhythm</i> , 2014, 11, 1495-1496.	0.7	7
33	Reliability of luminal oesophageal temperature monitoring during radiofrequency ablation of atrial fibrillation: insights from probe visualization and oesophageal reconstruction using magnetic resonance imaging. <i>Europace</i> , 2017, 19, euw129.	1.7	7
34	Fluoroscopy-free recrossing of the interatrial septum during left atrial ablation procedures. <i>Journal of Interventional Cardiac Electrophysiology</i> , 2014, 41, 261-266.	1.3	6
35	Electroanatomic mapping of atrial tachycardia"Manual vs automated annotation. <i>HeartRhythm Case Reports</i> , 2017, 3, 145-147.	0.4	6
36	Ablation of typical atrial flutter guided by the paced PR interval on the surface electrocardiogram: a proof of concept study. <i>Europace</i> , 2019, 21, 1750-1754.	1.7	6

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37	Atri-U: assisted image analysis in routine cardiovascular magnetic resonance volumetry of the left atrium. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2021, 23, 133.	3.3	6
38	Comparison of Different Approaches to Atrioventricular Junction Ablation and Pacemaker Implantation in Patients with Atrial Fibrillation. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2014, 37, 1686-1693.	1.2	5
39	A quantitative comparison of the electrical and anatomical definition of the pulmonary vein ostium. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2017, 40, 1213-1217.	1.2	5
40	Burden-based classification of atrial fibrillation predicts multiple-procedure success of pulmonary vein isolation. <i>Journal of Cardiology</i> , 2019, 74, 53-59.	1.9	5
41	First-degree atrioventricular block in patients with atrial fibrillation and atrial flutter: the prevalence of intra-atrial conduction delay. <i>Journal of Interventional Cardiac Electrophysiology</i> , 2021, 61, 421-425.	1.3	5
42	Cryoballoon Ablation of Atrial Fibrillation Without Demonstration of Pulmonary Vein Occlusion – The Simplify Cryo Study. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 664538.	2.4	5
43	Clinical validation of a novel smartwatch for automated detection of atrial fibrillation. <i>Heart Rhythm O2</i> , 2022, 3, 208-210.	1.7	5
44	Magnetic Field Measurements of Portable Electronic Devices: The Risk Inside Pockets for Patients With Cardiovascular Implantable Devices. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2022, 15, CIRCEP121010646.	4.8	5
45	Paroxysmal atrial fibrillation recurrence after redo procedure-ablation modality impact. <i>Journal of Interventional Cardiac Electrophysiology</i> , 2020, 57, 77-85.	1.3	4
46	Prospective Evaluation of a Standardized Screening for Atrial Fibrillation after Ablation of Cavotricuspid Isthmus Dependent Atrial Flutter. <i>Journal of Clinical Medicine</i> , 2021, 10, 4453.	2.4	4
47	MRI-based inverse finite element approach for the mechanical assessment of patellar articular cartilage from static compression test / MRT-basierter Finite-Elemente-Ansatz zur mechanischen Beurteilung von patellarem Gelenknorpel aus statischen Kompressionsversuchen. <i>Biomedizinische Technik</i> , 2008, 53, 285-291.	0.8	3
48	Man vs machine: Performance of manual vs automated electrocardiogram analysis for predicting the chamber of origin of idiopathic ventricular arrhythmia. <i>Journal of Cardiovascular Electrophysiology</i> , 2020, 31, 410-416.	1.7	3
49	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.	1.3	3
50	Quantification of the Safety Distance Between ICDs and Phones Equipped With Magnets. <i>JACC: Clinical Electrophysiology</i> , 2021, 7, 1066-1068.	3.2	3
51	Modular Structure of Biochips Based on Microstructured Deposition of Functional Nanoparticles. <i>Engineering in Life Sciences</i> , 2004, 4, 93-97.	3.6	2
52	Entering through the back-door: remotely navigated ablation of left atrial tachycardia in the presence of a large atrial septal defect occluder. <i>Europace</i> , 2013, 15, 943-943.	1.7	2
53	Fluoroscopy-free PVI With nMARQ <sup>TM</sup> in a Patient With a PFO. <i>Journal of Cardiovascular Electrophysiology</i> , 2015, 26, 906-906.	1.7	2
54	First clinical experience of a dedicated irrigated-tip radiofrequency ablation catheter for the ablation of cavotricuspid isthmus-dependent atrial flutter. <i>Clinical Research in Cardiology</i> , 2018, 107, 281-286.	3.3	2

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55	Epicardial Connection. JACC: Clinical Electrophysiology, 2019, 5, 1356-1357.	3.2	2
56	A Simplified Method to Detect Phrenic Nerve Injury During Cryoballoon Ablation of Atrial Fibrillation Using Lead aVF of the Surface ECG. Circulation: Arrhythmia and Electrophysiology, 2021, 14, e009986.	4.8	2
57	Isolation of an Automatic Purkinje Focus for Ablation of an Incessant Ventricular Tachycardia. Circulation: Arrhythmia and Electrophysiology, 2014, 7, 1275-1276.	4.8	1
58	Cryoballoon ablation for atrial fibrillation. Interventional Cardiology, 2014, 6, 373-382.	0.0	1
59	Entrapment of a diagnostic catheter in a novel multipolar basket catheter (Orionâ„¦) during right atrial mapping. Europace, 2016, 18, 1186-1186.	1.7	1
60	Cryoballoon ablation: The pure and simple truth about the left common ostium?. Heart Rhythm, 2017, 14, 1119-1120.	0.7	1
61	Treating Atrial Fibrillation With Cryoballoon Technology. Journal of Atrial Fibrillation, 2012, 4, 486.	0.5	1
62	Association of pulmonary vein isolation and major cardiovascular events in patients with atrial fibrillation. Clinical Research in Cardiology, 2022, , 1.	3.3	1
63	Response to Dr. Sven Kili. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2008, 84B, 298-299.	3.4	0
64	Interplay between Arrhythmias Originating in the Right Ventricular Outflow Tract and the Left Coronary Cusp. PACE - Pacing and Clinical Electrophysiology, 2012, 35, e356-7.	1.2	0
65	Wide and narrow QRS complex tachycardia with four different cycle lengths: What is the mechanism?. Heart Rhythm, 2018, 15, 1736-1738.	0.7	0
66	Gadolinium based contrast agent-free cardiac magnetic resonance imaging for the assessment of heart anatomy. A feasibility study. Revista Espanola De Cardiologia (English Ed ), 2020, 73, 510-512.	0.6	0
67	Ventricular tachycardia catheter ablation after repaired tetralogy of Fallot: how to overcome an electrical short circuit. Europace, 2020, 22, 1687-1687.	1.7	0
68	Substrate characterization for ventricular tachycardia ablation using a new image processing service. Clinical Research in Cardiology, 2021, 110, 913-915.	3.3	0
69	Preâ€œprocedural arrhythmia burden and the outcome of catheter ablation of idiopathic premature ventricular complexes. PACE - Pacing and Clinical Electrophysiology, 2021, 44, 703-710.	1.2	0
70	Non-invasive predictors for infranodal conduction delay in patients with left bundle branch block after TAVR. Clinical Research in Cardiology, 2021, 110, 1967-1976.	3.3	0
71	Dynamics of Intraprocedural Dominant Frequency Identifies Ablation Outcome in Persistent Atrial Fibrillation. Frontiers in Physiology, 2021, 12, 731917.	2.8	0
72	OUP accepted manuscript. European Heart Journal, 2020, 41, 724.	2.2	0

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73	High-sensitivity cardiac Troponin T delta concentration after repeat pulmonary vein isolation. <i>Biochemia Medica</i> , 2019, 29, 407-412.	2.7	0
74	Imágenes de resonancia magnética cardiaca sin contraste basadas en gadolinio para la evaluación de la anatomía del corazón: un estudio de viabilidad. <i>Revista Espanola De Cardiologia</i> , 2020, 73, 510-512.	1.2	0
75	PO-694-04 AMPLITUDE OF FIBRILLATORY WAVE ON SURFACE ECG PREDICTS LONG-TERM ABLATION OUTCOME IN PERSISTENT ATRIAL FIBRILLATION. <i>Heart Rhythm</i> , 2022, 19, S411.	0.7	0
76	Time to say good bye? The value of a waiting period after pulmonary vein isolation. <i>Journal of Cardiovascular Electrophysiology</i> , 2022, 33, 1734-1736.	1.7	0