

Niels Voigt

List of Publications by Year in descending order

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Version: 2024-02-01

102
papers

7,386
citations

76326

40
h-index

54911

84
g-index

109
all docs

109
docs citations

109
times ranked

5812
citing authors

#	ARTICLE	IF	CITATIONS
1	Cellular and Molecular Electrophysiology of Atrial Fibrillation Initiation, Maintenance, and Progression. <i>Circulation Research</i> , 2014, 114, 1483-1499.	4.5	530
2	Enhanced Sarcoplasmic Reticulum Ca ²⁺ Leak and Increased Na ⁺ -Ca ²⁺ Exchanger Function Underlie Delayed Afterdepolarizations in Patients With Chronic Atrial Fibrillation. <i>Circulation</i> , 2012, 125, 2059-2070.	1.6	523
3	Recent advances in the molecular pathophysiology of atrial fibrillation. <i>Journal of Clinical Investigation</i> , 2011, 121, 2955-2968.	8.2	480
4	The G Protein-Dependent Potassium Current <i>I_{K,ACh}</i> Is Constitutively Active in Patients With Chronic Atrial Fibrillation. <i>Circulation</i> , 2005, 112, 3697-3706.	1.6	413
5	Cellular and Molecular Mechanisms of Atrial Arrhythmogenesis in Patients With Paroxysmal Atrial Fibrillation. <i>Circulation</i> , 2014, 129, 145-156.	1.6	386
6	Human Atrial Action Potential and Ca ²⁺ Model. <i>Circulation Research</i> , 2011, 109, 1055-1066.	4.5	368
7	Oxidized Ca ²⁺ /Calmodulin-Dependent Protein Kinase II Triggers Atrial Fibrillation. <i>Circulation</i> , 2013, 128, 1748-1757.	1.6	256
8	Transient Receptor Potential Canonical-3 Channel-Dependent Fibroblast Regulation in Atrial Fibrillation. <i>Circulation</i> , 2012, 126, 2051-2064.	1.6	228
9	MicroRNA29. <i>Circulation</i> , 2013, 127, 1466-1475.	1.6	222
10	Left-to-Right Atrial Inward Rectifier Potassium Current Gradients in Patients With Paroxysmal Versus Chronic Atrial Fibrillation. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2010, 3, 472-480.	4.8	204
11	Oxidized CaMKII causes cardiac sinus node dysfunction in mice. <i>Journal of Clinical Investigation</i> , 2011, 121, 3277-3288.	8.2	193
12	Role of RyR2 Phosphorylation at S2814 During Heart Failure Progression. <i>Circulation Research</i> , 2012, 110, 1474-1483.	4.5	187
13	Upregulation of K ^{2P} 3.1 K ⁺ Current Causes Action Potential Shortening in Patients With Chronic Atrial Fibrillation. <i>Circulation</i> , 2015, 132, 82-92.	1.6	172
14	The value of basic research insights into atrial fibrillation mechanisms as a guide to therapeutic innovation: a critical analysis. <i>Cardiovascular Research</i> , 2016, 109, 467-479.	3.8	166
15	Mutation E169K in Junctophilin-2 Causes Atrial Fibrillation Due to Impaired RyR2 Stabilization. <i>Journal of the American College of Cardiology</i> , 2013, 62, 2010-2019.	2.8	165
16	Ryanodine Receptor-Mediated Calcium Leak Drives Progressive Development of an Atrial Fibrillation Substrate in a Transgenic Mouse Model. <i>Circulation</i> , 2014, 129, 1276-1285.	1.6	160
17	Inhibition of CaMKII Phosphorylation of RyR2 Prevents Induction of Atrial Fibrillation in FKBP12.6 Knockout Mice. <i>Circulation Research</i> , 2012, 110, 465-470.	4.5	140
18	Tachycardia-induced silencing of subcellular Ca ²⁺ signaling in atrial myocytes. <i>Journal of Clinical Investigation</i> , 2014, 124, 4759-4772.	8.2	114

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19	Multiple Potential Molecular Contributors to Atrial Hypocontractility Caused by Atrial Tachycardia Remodeling in Dogs. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2010, 3, 530-541.	4.8	112
20	Differential phosphorylation-dependent regulation of constitutively active and muscarinic receptor-activated IK,ACh channels in patients with chronic atrial fibrillation. <i>Cardiovascular Research</i> , 2007, 74, 426-437.	3.8	110
21	Pathology-specific effects of the <i>Kur</i> to <i>K</i> ,ACh blocker AVE0118 on ion channels in human chronic atrial fibrillation. <i>British Journal of Pharmacology</i> , 2008, 154, 1619-1630.	5.4	106
22	Defects in Ankyrin-Based Membrane Protein Targeting Pathways Underlie Atrial Fibrillation. <i>Circulation</i> , 2011, 124, 1212-1222.	1.6	102
23	Loss of MicroRNA-106b-25 Cluster Promotes Atrial Fibrillation by Enhancing Ryanodine Receptor Type-2 Expression and Calcium Release. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2014, 7, 1214-1222.	4.8	101
24	The ryanodine receptor channel as a molecular motif in atrial fibrillation: pathophysiological and therapeutic implications. <i>Cardiovascular Research</i> , 2011, 89, 734-743.	3.8	98
25	Differential Protein Kinase C Isoform Regulation and Increased Constitutive Activity of Acetylcholine-Regulated Potassium Channels in Atrial Remodeling. <i>Circulation Research</i> , 2011, 109, 1031-1043.	4.5	93
26	Changes in IK,ACh single-channel activity with atrial tachycardia remodelling in canine atrial cardiomyocytes. <i>Cardiovascular Research</i> , 2007, 77, 35-43.	3.8	91
27	NSC23766, a Widely Used Inhibitor of Rac1 Activation, Additionally Acts as a Competitive Antagonist at Muscarinic Acetylcholine Receptors. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2013, 347, 69-79.	2.5	75
28	Atrial Fibrillation Activates AMP-Dependent Protein Kinase and its Regulation of Cellular Calcium Handling. <i>Journal of the American College of Cardiology</i> , 2015, 66, 47-58.	2.8	75
29	Inverse remodelling of $K_{P3.1K}^{+}$ channel expression and action potential duration in left ventricular dysfunction and atrial fibrillation: implications for patient-specific antiarrhythmic drug therapy. <i>European Heart Journal</i> , 2017, 38, ehw559.	2.2	74
30	Cellular and mitochondrial mechanisms of atrial fibrillation. <i>Basic Research in Cardiology</i> , 2020, 115, 72.	5.9	62
31	Ca ²⁺ -Related Signaling and Protein Phosphorylation Abnormalities Play Central Roles in a New Experimental Model of Electrical Storm. <i>Circulation</i> , 2011, 123, 2192-2203.	1.6	57
32	Impaired local regulation of ryanodine receptor type 2 by protein phosphatase 1 promotes atrial fibrillation. <i>Cardiovascular Research</i> , 2014, 103, 178-187.	3.8	56
33	Dysfunction in the β II Spectrin-Dependent Cytoskeleton Underlies Human Arrhythmia. <i>Circulation</i> , 2015, 131, 695-708.	1.6	56
34	Calcium dysregulation in atrial fibrillation: the role of CaMKII. <i>Frontiers in Pharmacology</i> , 2014, 5, 30.	3.5	55
35	Computational models of atrial cellular electrophysiology and calcium handling, and their role in atrial fibrillation. <i>Journal of Physiology</i> , 2016, 594, 537-553.	2.9	54
36	Inhibition of IK,ACh current may contribute to clinical efficacy of class I and class III antiarrhythmic drugs in patients with atrial fibrillation. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2010, 381, 251-259.	3.0	49

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37	New directions in antiarrhythmic drug therapy for atrial fibrillation. <i>Future Cardiology</i> , 2013, 9, 71-88.	1.2	47
38	Cardiac safety assays. <i>Current Opinion in Pharmacology</i> , 2014, 15, 16-21.	3.5	46
39	Identification of microRNA-mRNA dysregulations in paroxysmal atrial fibrillation. <i>International Journal of Cardiology</i> , 2015, 184, 190-197.	1.7	46
40	Altered atrial cytosolic calcium handling contributes to the development of postoperative atrial fibrillation. <i>Cardiovascular Research</i> , 2021, 117, 1790-1801.	3.8	45
41	Regenerative potential of epicardium-derived extracellular vesicles mediated by conserved miRNA transfer. <i>Cardiovascular Research</i> , 2022, 118, 597-611.	3.8	41
42	Constitutive Activity of the Acetylcholine-Activated Potassium Current $I_{K,ACh}$ in Cardiomyocytes. <i>Advances in Pharmacology</i> , 2014, 70, 393-409.	2.0	39
43	Impaired Na^+ -dependent regulation of acetylcholine-activated inward-rectifier K^+ current modulates action potential rate dependence in patients with chronic atrial fibrillation. <i>Journal of Molecular and Cellular Cardiology</i> , 2013, 61, 142-152.	1.9	38
44	Alterations in the Interactome of Serine/Threonine Protein Phosphatase Type-1 in Atrial Fibrillation Patients. <i>Journal of the American College of Cardiology</i> , 2015, 65, 163-173.	2.8	38
45	γ -glutathiolation impairs phosphoregulation and function of cardiac myosin-binding protein C in human heart failure. <i>FASEB Journal</i> , 2016, 30, 1849-1864.	0.5	38
46	Stretch-activated two-pore-domain (K2P) potassium channels in the heart: Focus on atrial fibrillation and heart failure. <i>Progress in Biophysics and Molecular Biology</i> , 2017, 130, 233-243.	2.9	37
47	Axial Tubule Junctions Activate Atrial Ca^{2+} Release Across Species. <i>Frontiers in Physiology</i> , 2018, 9, 1227.	2.8	36
48	Expression and function of Kv1.1 potassium channels in human atria from patients with atrial fibrillation. <i>Basic Research in Cardiology</i> , 2015, 110, 505.	5.9	35
49	Atrial fibrillation and heart failure-associated remodeling of two-pore-domain potassium (K2P) channels in murine disease models: focus on TASK-1. <i>Basic Research in Cardiology</i> , 2018, 113, 27.	5.9	33
50	Sarcoplasmic reticulum calcium leak contributes to arrhythmia but not to heart failure progression. <i>Science Translational Medicine</i> , 2018, 10, .	12.4	30
51	Atrial-Selective Potassium Channel Blockers. <i>Cardiac Electrophysiology Clinics</i> , 2016, 8, 411-421.	1.7	29
52	German Cardiac Society Working Group on Cellular Electrophysiology state-of-the-art paper: impact of molecular mechanisms on clinical arrhythmia management. <i>Clinical Research in Cardiology</i> , 2019, 108, 577-599.	3.3	27
53	Methods for isolating atrial cells from large mammals and humans. <i>Journal of Molecular and Cellular Cardiology</i> , 2015, 86, 187-198.	1.9	26
54	Calcium handling and atrial fibrillation. <i>Wiener Medizinische Wochenschrift</i> , 2012, 162, 287-291.	1.1	25

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55	Nucleoside Diphosphate Kinase-C Suppresses cAMP Formation in Human Heart Failure. <i>Circulation</i> , 2017, 135, 881-897.	1.6	24
56	Isolation of Human Atrial Myocytes for Simultaneous Measurements of Ca ²⁺ Transients and Membrane Currents. <i>Journal of Visualized Experiments</i> , 2013, , e50235.	0.3	23
57	Dysfunction of the β_2 -spectrin-based pathway in human heart failure. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016, 310, H1583-H1591.	3.2	23
58	CaMKII activity contributes to homeometric autoregulation of the heart: A novel mechanism for the Anrep effect. <i>Journal of Physiology</i> , 2020, 598, 3129-3153.	2.9	23
59	Muscarinic type-1 receptors contribute to I _{K,ACh} in human atrial cardiomyocytes and are upregulated in patients with chronic atrial fibrillation. <i>International Journal of Cardiology</i> , 2018, 255, 61-68.	1.7	22
60	Application of the RIMARC algorithm to a large data set of action potentials and clinical parameters for risk prediction of atrial fibrillation. <i>Medical and Biological Engineering and Computing</i> , 2015, 53, 263-273.	2.8	21
61	The inward rectifier current inhibitor PA ϵ 6 terminates atrial fibrillation and does not cause ventricular arrhythmias in goat and dog models. <i>British Journal of Pharmacology</i> , 2017, 174, 2576-2590.	5.4	20
62	The combined effects of ranolazine and dronedarone on human atrial and ventricular electrophysiology. <i>Journal of Molecular and Cellular Cardiology</i> , 2016, 94, 95-106.	1.9	18
63	Voltage-Clamp-Based Methods for the Detection of Constitutively Active Acetylcholine-Gated I _{K,ACh} Channels in the Diseased Heart. <i>Methods in Enzymology</i> , 2010, 484, 653-675.	1.0	17
64	Caveolin3 Stabilizes McT1-Mediated Lactate/Proton Transport in Cardiomyocytes. <i>Circulation Research</i> , 2021, 128, e102-e120.	4.5	16
65	Calcium Handling Abnormalities as a Target for Atrial Fibrillation Therapeutics. <i>Journal of Cardiovascular Pharmacology</i> , 2015, 66, 515-522.	1.9	15
66	Cellular and molecular correlates of ectopic activity in patients with atrial fibrillation. <i>Europace</i> , 2012, 14, v97-v105.	1.7	14
67	Increased cytosolic calcium buffering contributes to a cellular arrhythmogenic substrate in iPSC-cardiomyocytes from patients with dilated cardiomyopathy. <i>Basic Research in Cardiology</i> , 2022, 117, 5.	5.9	14
68	Proarrhythmic Atrial Calcium Cycling in the Diseased Heart. <i>Advances in Experimental Medicine and Biology</i> , 2012, 740, 1175-1191.	1.6	13
69	Ion Channel Remodelling in Atrial Fibrillation. <i>European Cardiology Review</i> , 2011, 7, 97.	2.2	13
70	Finding Ms or Mr Right: Which miRNA to target in AF?. <i>Journal of Molecular and Cellular Cardiology</i> , 2017, 102, 22-25.	1.9	12
71	Rhythm Control of Atrial Fibrillation in Heart Failure. <i>Heart Failure Clinics</i> , 2013, 9, 407-415.	2.1	10
72	Chromatin Accessibility of Human Mitral Valves and Functional Assessment of MVP Risk Loci. <i>Circulation Research</i> , 2021, 128, e84-e101.	4.5	10

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73	N-glycosylation-dependent regulation of hK2P17.1 currents. <i>Molecular Biology of the Cell</i> , 2019, 30, 1425-1436.	2.1	8
74	Connexin hemichannels in atrial fibrillation: orphaned and irrelevant?. <i>Cardiovascular Research</i> , 2021, 117, 4-6.	3.8	7
75	Kv1.1 potassium channel subunit deficiency alters ventricular arrhythmia susceptibility, contractility, and repolarization. <i>Physiological Reports</i> , 2021, 9, e14702.	1.7	7
76	Dysferlin links excitation-contraction coupling to structure and maintenance of the cardiac transverse-axial tubule system. <i>Europace</i> , 2020, 22, 1119-1131.	1.7	6
77	A junctional cAMP compartment regulates rapid Ca ²⁺ signaling in atrial myocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2022, 165, 141-157.	1.9	6
78	Adventures and Advances in Time Travel With Induced Pluripotent Stem Cells and Automated Patch Clamp. <i>Frontiers in Molecular Neuroscience</i> , 0, 15, .	2.9	6
79	Response to Letter Regarding Article, "Upregulation of K _v 3.1 K ⁺ Current Causes Action Potential Shortening in Patients With Chronic Atrial Fibrillation". <i>Circulation</i> , 2016, 133, e440-1.	1.6	5
80	In search for novel functions of adenosine 5'-triphosphate (ATP) in the heart. <i>Cardiovascular Research</i> , 2017, 113, e59-e60.	3.8	5
81	Scientists on the Spot: Autophagy and heart disease. <i>Cardiovascular Research</i> , 2019, 115, e91-e92.	3.8	5
82	New antiarrhythmic targets in atrial fibrillation. <i>Future Cardiology</i> , 2015, 11, 645-654.	1.2	4
83	The biology of human pulmonary veins: Does it help us to better understand AF pathophysiology in patients?. <i>Heart Rhythm</i> , 2013, 10, 392-393.	0.7	3
84	ESC Congress 2018 highlights in basic science: a report from the Scientists of Tomorrow. <i>Cardiovascular Research</i> , 2018, 114, e103-e105.	3.8	3
85	Personalization of Mathematical Models of Human Atrial Action Potential. <i>Smart Innovation, Systems and Technologies</i> , 2021, , 223-236.	0.6	2
86	Single-Cell Optical Action Potential Measurement in Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes. <i>Journal of Visualized Experiments</i> , 2020, , .	0.3	2
87	The Molecular Pathophysiology of Atrial Fibrillation. , 2014, , 449-458.		1
88	Report on the Ion Channel Symposium. <i>Herzschrittmachertherapie Und Elektrophysiologie</i> , 2018, 29, 4-13.	0.8	1
89	The Molecular Pathophysiology of Atrial Fibrillation. , 2018, , 396-408.		1
90	Voltage-Gated Calcium Channels and Their Roles in Cardiac Electrophysiology. <i>Cardiac and Vascular Biology</i> , 2018, , 77-96.	0.2	1

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91	OUP accepted manuscript. Cardiovascular Research, 2022, , .	3.8	1
92	A Mathematical Model for Electrical Activity in Pig Atrial Tissue. Frontiers in Physiology, 2022, 13, 812535.	2.8	1
93	Background calcium influx in arrhythmia: lead actor or extra?. Journal of Physiology, 2022, 600, 2545-2546.	2.9	1
94	Models of Human Atrial Action Potential for Sinus Rhythm and Chronic Atrial Fibrillation. Biophysical Journal, 2011, 100, 436a.	0.5	0
95	CW25-e5168 Impaired Post-Transcriptional Regulation of RyR2 by microRNA-106b-25 Cluster Promotes Atrial Fibrillation. Journal of the American College of Cardiology, 2014, 64, C59.	2.8	0
96	Ryanodine receptor dysfunction and the resolution revolution: how Nobel Prize-winning techniques transform cardiovascular research. Cardiovascular Research, 2018, 114, e106-e109.	3.8	0
97	Niels Voigt talks to W. Jonathan Lederer, keynote lecturer at the "Göttingen Channels" Symposium 2017. Cardiovascular Research, 2018, 114, e14-e14.	3.8	0
98	Prof Niels Voigt talks to Prof Stanley Nattel about advances in atrial fibrillation research and career insights. Cardiovascular Research, 2018, 114, e65-e65.	3.8	0
99	Insights into cardiovascular research in Göttingen and Heidelberg: a report by the ESC Scientists of Tomorrow. Cardiovascular Research, 2020, 116, e162-e164.	3.8	0
100	Cholinergic and Constitutive Regulation of Atrial Potassium Channel. , 2014, , 383-391.		0
101	Isolation of High Quality Murine Atrial and Ventricular Myocytes for Simultaneous Measurements of Ca ²⁺ Transients and L-Type Calcium Current. Journal of Visualized Experiments, 2020, , .	0.3	0
102	PO-615-02 MIR-144 KNOCKOUT LEADS TO INCREASED ARRHYTHMOGENICITY ASSOCIATED WITH IMPAIRED ATRIAL CALCIUM-HANDLING. Heart Rhythm, 2022, 19, S107.	0.7	0