Niels Voigt

List of Publications by Year
in descending order

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	Regenerative potential of epicardium-derived extracellular vesicles mediated by conserved miRNA transfer. Cardiovascular Research, 2022, 118, 597-611.	3.8	41
2	A junctional cAMP compartment regulates rapid Ca2+ signaling in atrial myocytes. Journal of Molecular and Cellular Cardiology, 2022, 165, 141-157.	1.9	6
3	OUP accepted manuscript. Cardiovascular Research, 2022, , .	3.8	1
4	A Mathematical Model for Electrical Activity in Pig Atrial Tissue. Frontiers in Physiology, 2022, 13, 812535.	2.8	1
5	Background calcium influx in arrhythmia: lead actor or extra?. Journal of Physiology, 2022, 600, 2545-2546.	2.9	1
6	Increased cytosolic calcium buffering contributes to a cellular arrhythmogenic substrate in iPSC-cardiomyocytes from patients with dilated cardiomyopathy. Basic Research in Cardiology, 2022, 117, 5.	5.9	14
7	PO-615-02 MIR-144 KNOCKOUT LEADS TO INCREASED ARRHYTHMOGENICITY ASSOCIATED WITH IMPAIRED ATRIAL CALCIUM-HANDLING. Heart Rhythm, 2022, 19, S107.	0.7	0
8	Altered atrial cytosolic calcium handling contributes to the development of postoperative atrial fibrillation. Cardiovascular Research, 2021, 117, 1790-1801.	3.8	45
9	Connexin hemichannels in atrial fibrillation: orphaned and irrelevant?. Cardiovascular Research, 2021, 117, 4-6.	3.8	7
10	Kv1.1 potassium channel subunit deficiency alters ventricular arrhythmia susceptibility, contractility, and repolarization. Physiological Reports, 2021, 9, e14702.	1.7	7
11	Chromatin Accessibility of Human Mitral Valves and Functional Assessment of MVP Risk Loci. Circulation Research, 2021, 128, e84-e101.	4.5	10
12	Caveolin3 Stabilizes McT1-Mediated Lactate/Proton Transport in Cardiomyocytes. Circulation Research, 2021, 128, e102-e120.	4.5	16
13	Personalization of Mathematical Models of Human Atrial Action Potential. Smart Innovation, Systems and Technologies, 2021, , 223-236.	0.6	2
14	Cellular and mitochondrial mechanisms of atrial fibrillation. Basic Research in Cardiology, 2020, 115, 72.	5.9	62
15	Insights into cardiovascular research in GÃ¶ttingen and Heidelberg: a report by the ESC Scientists of Tomorrow. Cardiovascular Research, 2020, 116, e162-e164.	3.8	0
16	CaMKII activity contributes to homeometric autoregulation of the heart: A novel mechanism for the Anrep effect. Journal of Physiology, 2020, 598, 3129-3153.	2.9	23
17	Dysferlin links excitationâ€"contraction coupling to structure and maintenance of the cardiac transverseâ€"axial tubule system. Europace, 2020, 22, 1119-1131.	1.7	6
18	Single-Cell Optical Action Potential Measurement in Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes. Journal of Visualized Experiments, 2020, , .	0.3	2

#	ARTICLE	IF	CITATIONS
19	Isolation of High Quality Murine Atrial and Ventricular Myocytes for Simultaneous Measurements of Ca²⁺ Transients and L-Type Calcium Current. Journal of Visualized Experiments, 2020, , .	0.3	0
20	Scientists on the Spot: Autophagy and heart disease. Cardiovascular Research, 2019, 115, e91-e92.	3.8	5
21	N-glycosylationâ€"dependent regulation of hK2P17.1 currents. Molecular Biology of the Cell, 2019, 30, 1425-1436.	2.1	8
22	German Cardiac Society Working Group on Cellular Electrophysiology state-of-the-art paper: impact of molecular mechanisms on clinical arrhythmia management. Clinical Research in Cardiology, 2019, 108, 577-599.	3.3	27
23	Report on the Ion Channel Symposium. Herzschrittmachertherapie Und Elektrophysiologie, 2018, 29, 4-13.	0.8	1
24	Muscarinic type-1 receptors contribute to I K,ACh in human atrial cardiomyocytes and are upregulated in patients with chronic atrial fibrillation. International Journal of Cardiology, 2018, 255, 61-68.	1.7	22
25	The Molecular Pathophysiology of Atrial Fibrillation. , 2018, , 396-408.		1
26	Ryanodine receptor dysfunction and the resolution revolution: how Nobel Prize-winning techniques transform cardiovascular research. Cardiovascular Research, 2018, 114, e106-e109.	3.8	0
27	Axial Tubule Junctions Activate Atrial Ca2+ Release Across Species. Frontiers in Physiology, 2018, 9, 1227.	2.8	36
28	ESC Congress 2018 highlights in basic science: a report from the Scientists of Tomorrow. Cardiovascular Research, 2018, 114, e103-e105.	3.8	3
29	Sarcoplasmic reticulum calcium leak contributes to arrhythmia but not to heart failure progression. Science Translational Medicine, 2018, 10, .	12.4	30
30	Niels Voigt talks to W. Jonathan Lederer, keynote lecturer at the â€œGÃ¶ttingen Channelsâ€•Symposium 2017. Cardiovascular Research, 2018, 114, e14-e14.	3.8	0
31	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
32	Atrial fibrillation and heart failure-associated remodeling of two-pore-domain potassium (K2P) channels in murine disease models: focus on TASK-1. Basic Research in Cardiology, 2018, 113, 27.	5.9	33
33	Voltage-Gated Calcium Channels and Their Roles in Cardiac Electrophysiology. Cardiac and Vascular Biology, 2018, , 77-96.	0.2	1
34	Inverse remodelling of K_{2P}3.1 K⁺channel expression and action potential duration in left ventricular dysfunction and atrial fibrillation: implications for patient-specific antiarrhythmic drug therapy. European Heart Journal, 2017, 38, ehw559.	2.2	74
35	Stretch-activated two-pore-domain (K2P) potassium channels in the heart: Focus on atrial fibrillation and heart failure. Progress in Biophysics and Molecular Biology, 2017, 130, 233-243.	2.9	37
36	The inward rectifier current inhibitor PAâ€6 terminates atrial fibrillation and does not cause ventricular arrhythmias in goat and dog models. British Journal of Pharmacology, 2017, 174, 2576-2590.	5.4	20

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37	Nucleoside Diphosphate Kinase-C Suppresses cAMP Formation in Human Heart Failure. Circulation, 2017, 135, 881-897.	1.6	24
38	Finding Ms or Mr Right: Which miRNA to target in AF?. Journal of Molecular and Cellular Cardiology, 2017, 102, 22-25.	1.9	12
39	In search for novel functions of adenosine 5â€²-triphosphate (ATP) in the heart. Cardiovascular Research, 2017, 113, e59-e60.	3.8	5
40	Computational models of atrial cellular electrophysiology and calcium handling, and their role in atrial fibrillation. Journal of Physiology, 2016, 594, 537-553.	2.9	54
41	The combined effects of ranolazine and dronedarone on human atrial and ventricular electrophysiology. Journal of Molecular and Cellular Cardiology, 2016, 94, 95-106.	1.9	18
42	Atrial-Selective Potassium Channel Blockers. Cardiac Electrophysiology Clinics, 2016, 8, 411-421.	1.7	29
43	Response to Letter Regarding Article, â€œUpregulation of K _{2P} 3.1 K ⁺ Current Causes Action Potential Shortening in Patients With Chronic Atrial Fibrillationâ€• Circulation, 2016, 133, e440-1.	1.6	5
44	Dysfunction of the Î²₂-spectrin-based pathway in human heart failure. American Journal of Physiology - Heart and Circulatory Physiology, 2016, 310, H1583-H1591.	3.2	23
45	<i>S</i> â€glutathiolation impairs phosphoregulation and function of cardiac myosinâ€binding protein C in human heart failure. FASEB Journal, 2016, 30, 1849-1864.	0.5	38
46	The value of basic research insights into atrial fibrillation mechanisms as a guide to therapeutic innovation: a critical analysis. Cardiovascular Research, 2016, 109, 467-479.	3.8	166
47	Calcium Handling Abnormalities as a Target for Atrial Fibrillation Therapeutics. Journal of Cardiovascular Pharmacology, 2015, 66, 515-522.	1.9	15
48	Dysfunction in the Î²II Spectrinâ€"Dependent Cytoskeleton Underlies Human Arrhythmia. Circulation, 2015, 131, 695-708.	1.6	56
49	Alterations in the Interactome of Serine/Threonine Protein Phosphatase Type-1 in Atrial Fibrillation Patients. Journal of the American College of Cardiology, 2015, 65, 163-173.	2.8	38
50	Identification of microRNAâ€"mRNA dysregulations in paroxysmal atrial fibrillation. International Journal of Cardiology, 2015, 184, 190-197.	1.7	46
51	Expression and function of Kv1.1 potassium channels in human atria from patients with atrial fibrillation. Basic Research in Cardiology, 2015, 110, 505.	5.9	35
52	Atrial Fibrillation Activates AMP-Dependent Protein Kinase and its Regulation of Cellular Calcium Handling. Journal of the American College of Cardiology, 2015, 66, 47-58.	2.8	75
53	Upregulation of K _{2P} 3.1 K ⁺ Current Causes Action Potential Shortening in Patients With Chronic Atrial Fibrillation. Circulation, 2015, 132, 82-92.	1.6	172
54	Methods for isolating atrial cells from large mammals and humans. Journal of Molecular and Cellular Cardiology, 2015, 86, 187-198.	1.9	26

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55	New antiarrhythmic targets in atrial fibrillation. Future Cardiology, 2015, 11, 645-654.	1.2	4
56	Application of the RIMARC algorithm to a large data set of action potentials and clinical parameters for risk prediction of atrial fibrillation. Medical and Biological Engineering and Computing, 2015, 53, 263-273.	2.8	21
57	Calcium dysregulation in atrial fibrillation: the role of CaMKII. Frontiers in Pharmacology, 2014, 5, 30.	3.5	55
58	Constitutive Activity of the Acetylcholine-Activated Potassium Current IK,ACh in Cardiomyocytes. Advances in Pharmacology, 2014, 70, 393-409.	2.0	39
59	Loss of MicroRNA-106b-25 Cluster Promotes Atrial Fibrillation by Enhancing Ryanodine Receptor Type-2 Expression and Calcium Release. Circulation: Arrhythmia and Electrophysiology, 2014, 7, 1214-1222.	4.8	101
60	Ryanodine Receptorâ€"Mediated Calcium Leak Drives Progressive Development of an Atrial Fibrillation Substrate in a Transgenic Mouse Model. Circulation, 2014, 129, 1276-1285.	1.6	160
61	Impaired local regulation of ryanodine receptor type 2 by protein phosphatase 1 promotes atrial fibrillation. Cardiovascular Research, 2014, 103, 178-187.	3.8	56
62	GW25-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
63	The Molecular Pathophysiology of Atrial Fibrillation. , 2014, , 449-458.		1
64	Cellular and Molecular Electrophysiology of Atrial Fibrillation Initiation, Maintenance, and Progression. Circulation Research, 2014, 114, 1483-1499.	4.5	530
65	Cellular and Molecular Mechanisms of Atrial Arrhythmogenesis in Patients With Paroxysmal Atrial Fibrillation. Circulation, 2014, 129, 145-156.	1.6	386
66	Cardiac safety assays. Current Opinion in Pharmacology, 2014, 15, 16-21.	3.5	46
67	Tachycardia-induced silencing of subcellular Ca2+ signaling in atrial myocytes. Journal of Clinical Investigation, 2014, 124, 4759-4772.	8.2	114
68	Cholinergic and Constitutive Regulation of Atrial Potassium Channel. , 2014, , 383-391.		0
69	Mutation E169K in Junctophilin-2 Causes Atrial Fibrillation Due to Impaired RyR2 Stabilization. Journal of the American College of Cardiology, 2013, 62, 2010-2019.	2.8	165
70	Impaired Na+-dependent regulation of acetylcholine-activated inward-rectifier K+ current modulates action potential rate dependence in patients with chronic atrial fibrillation. Journal of Molecular and Cellular Cardiology, 2013, 61, 142-152.	1.9	38
71	The biology of human pulmonary veins: Does it help us to better understand AF pathophysiology in patients?. Heart Rhythm, 2013, 10, 392-393.	0.7	3
72	Rhythm Control of Atrial Fibrillation in Heart Failure. Heart Failure Clinics, 2013, 9, 407-415.	2.1	10

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73	New directions in antiarrhythmic drug therapy for atrial fibrillation. Future Cardiology, 2013, 9, 71-88.	1.2	47
74	MicroRNA29. Circulation, 2013, 127, 1466-1475.	1.6	222
75	Oxidized Ca ²⁺ /Calmodulin-Dependent Protein Kinase II Triggers Atrial Fibrillation. Circulation, 2013, 128, 1748-1757.	1.6	256
76	NSC23766, a Widely Used Inhibitor of Rac1 Activation, Additionally Acts as a Competitive Antagonist at Muscarinic Acetylcholine Receptors. Journal of Pharmacology and Experimental Therapeutics, 2013, 347, 69-79.	2.5	75
77	Isolation of Human Atrial Myocytes for Simultaneous Measurements of Ca²⁺ Transients and Membrane Currents. Journal of Visualized Experiments, 2013, , e50235.	0.3	23
78	Transient Receptor Potential Canonical-3 Channelâ€“Dependent Fibroblast Regulation in Atrial Fibrillation. Circulation, 2012, 126, 2051-2064.	1.6	228
79	Enhanced Sarcoplasmic Reticulum Ca ²⁺ Leak and Increased Na ⁺ -Ca ²⁺ Exchanger Function Underlie Delayed Afterdepolarizations in Patients With Chronic Atrial Fibrillation. Circulation, 2012, 125, 2059-2070.	1.6	523
80	Role of RyR2 Phosphorylation at S2814 During Heart Failure Progression. Circulation Research, 2012, 110, 1474-1483.	4.5	187
81	Inhibition of CaMKII Phosphorylation of RyR2 Prevents Induction of Atrial Fibrillation in FKBP12.6 Knockout Mice. Circulation Research, 2012, 110, 465-470.	4.5	140
82	Cellular and molecular correlates of ectopic activity in patients with atrial fibrillation. Europace, 2012, 14, v97-v105.	1.7	14
83	Calcium handling and atrial fibrillation. Wiener Medizinische Wochenschrift, 2012, 162, 287-291.	1.1	25
84	Proarrhythmic Atrial Calcium Cycling in the Diseased Heart. Advances in Experimental Medicine and Biology, 2012, 740, 1175-1191.	1.6	13
85	The ryanodine receptor channel as a molecular motif in atrial fibrillation: pathophysiological and therapeutic implications. Cardiovascular Research, 2011, 89, 734-743.	3.8	98
86	Models of Human Atrial Action Potential for Sinus Rhythm and Chronic Atrial Fibrillation. Biophysical Journal, 2011, 100, 436a.	0.5	0
87	Defects in Ankyrin-Based Membrane Protein Targeting Pathways Underlie Atrial Fibrillation. Circulation, 2011, 124, 1212-1222.	1.6	102
88	Differential Protein Kinase C Isoform Regulation and Increased Constitutive Activity of Acetylcholine-Regulated Potassium Channels in Atrial Remodeling. Circulation Research, 2011, 109, 1031-1043.	4.5	93
89	Ca ²⁺ -Related Signaling and Protein Phosphorylation Abnormalities Play Central Roles in a New Experimental Model of Electrical Storm. Circulation, 2011, 123, 2192-2203.	1.6	57
90	Recent advances in the molecular pathophysiology of atrial fibrillation. Journal of Clinical Investigation, 2011, 121, 2955-2968.	8.2	480

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91	Human Atrial Action Potential and Ca ²⁺ Model. Circulation Research, 2011, 109, 1055-1066.	4.5	368
92	Oxidized CaMKII causes cardiac sinus node dysfunction in mice. Journal of Clinical Investigation, 2011, 121, 3277-3288.	8.2	193
93	Ion Channel Remodelling in Atrial Fibrillation. European Cardiology Review, 2011, 7, 97.	2.2	13
94	Inhibition of IK,ACh current may contribute to clinical efficacy of class I and class III antiarrhythmic drugs in patients with atrial fibrillation. Naunyn-Schmiedeberg's Archives of Pharmacology, 2010, 381, 251-259.	3.0	49
95	Multiple Potential Molecular Contributors to Atrial Hypocontractility Caused by Atrial Tachycardia Remodeling in Dogs. Circulation: Arrhythmia and Electrophysiology, 2010, 3, 530-541.	4.8	112
96	Left-to-Right Atrial Inward Rectifier Potassium Current Gradients in Patients With Paroxysmal Versus Chronic Atrial Fibrillation. Circulation: Arrhythmia and Electrophysiology, 2010, 3, 472-480.	4.8	204
97	Voltage-Clamp-Based Methods for the Detection of Constitutively Active Acetylcholine-Gated IK,ACh Channels in the Diseased Heart. Methods in Enzymology, 2010, 484, 653-675.	1.0	17
98	Pathologyâ€specific effects of the <i>I</i>_{Kur}/<i>I</i>_{to}/<i>I</i>_{K,ACh} blocker AVE0118 on ion channels in human chronic atrial fibrillation. British Journal of Pharmacology, 2008, 154, 1619-1630.	5.4	106
99	Differential phosphorylation-dependent regulation of constitutively active and muscarinic receptor-activated IK,ACh channels in patients with chronic atrial fibrillation. Cardiovascular Research, 2007, 74, 426-437.	3.8	110
100	Changes in IK,ACh single-channel activity with atrial tachycardia remodelling in canine atrial cardiomyocytes. Cardiovascular Research, 2007, 77, 35-43.	3.8	91
101	The G Proteinâ€"Gated Potassium Current <i>I</i> _{K,ACh} Is Constitutively Active in Patients With Chronic Atrial Fibrillation. Circulation, 2005, 112, 3697-3706.	1.6	413
102	Adventures and Advances in Time Travel With Induced Pluripotent Stem Cells and Automated Patch Clamp. Frontiers in Molecular Neuroscience, 0, 15, .	2.9	6