

Niels Voigt

List of Publications by Year in Descending Order

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Version: 2024-04-28

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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.

94
papers

5,349
citations

35
h-index

72
g-index

109
ext. papers

6,617
ext. citations

7.7
avg. IF

5.34
L-index

#	Paper	IF	Citations
94	A Mathematical Model for Electrical Activity in Pig Atrial Tissue.. <i>Frontiers in Physiology</i> , 2022 , 13, 812535	4.6	0
93	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	11.8	0
92	Altered atrial cytosolic calcium handling contributes to the development of postoperative atrial fibrillation. <i>Cardiovascular Research</i> , 2021 , 117, 1790-1801	9.9	18
91	Caveolin3 Stabilizes McT1-Mediated Lactate/Proton Transport in Cardiomyocytes. <i>Circulation Research</i> , 2021 , 128, e102-e120	15.7	5
90	Kv1.1 potassium channel subunit deficiency alters ventricular arrhythmia susceptibility, contractility, and repolarization. <i>Physiological Reports</i> , 2021 , 9, e14702	2.6	3
89	Regenerative potential of epicardium-derived extracellular vesicles mediated by conserved miRNA transfer. <i>Cardiovascular Research</i> , 2021 ,	9.9	9
88	Chromatin Accessibility of Human Mitral Valves and Functional Assessment of MVP Risk Loci. <i>Circulation Research</i> , 2021 , 128, e84-e101	15.7	3
87	Personalization of Mathematical Models of Human Atrial Action Potential. <i>Smart Innovation, Systems and Technologies</i> , 2021 , 223-236	0.5	
86	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	3.9	8
85	Dysferlin links excitation-contraction coupling to structure and maintenance of the cardiac transverse-axial tubule system. <i>Europace</i> , 2020 , 22, 1119-1131	3.9	3
84	Single-Cell Optical Action Potential Measurement in Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes. <i>Journal of Visualized Experiments</i> , 2020 ,	1.6	1
83	Cellular and mitochondrial mechanisms of atrial fibrillation. <i>Basic Research in Cardiology</i> , 2020 , 115, 72	11.8	18
82	Insights into cardiovascular research in Göttingen and Heidelberg: a report by the ESC Scientists of Tomorrow. <i>Cardiovascular Research</i> , 2020 , 116, e162-e164	9.9	
81	Arzneimittelinteraktionen, die man kennen muss!. <i>Geriatric Up2date</i> , 2019 , 1, 151-163	0	
80	N-glycosylation-dependent regulation of hK17.1 currents. <i>Molecular Biology of the Cell</i> , 2019 , 30, 1425-1436	3.6	4
79	Arzneimittelinteraktionen, die man kennen muss!. <i>Notfallmedizin Up2date</i> , 2019 , 14, 173-185	0.2	
78	Scientists on the Spot: Autophagy and heart disease. <i>Cardiovascular Research</i> , 2019 , 115, e91-e92	9.9	3

77	Arzneimittelinteraktionen, die man kennen muss!. <i>Allgemein- Und Viszeralchirurgie Up2date</i> , 2019 , 13, 547-559	0.3	
76	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	6.1	11
75	Report on the Ion Channel Symposium : Organized by the German Cardiac Society Working Group on Cellular Electrophysiology (AG18). <i>Herzschrittmachertherapie Und Elektrophysiologie</i> , 2018 , 29, 4-13	0.8	0
74	Muscarinic type-1 receptors contribute to I in human atrial cardiomyocytes and are upregulated in patients with chronic atrial fibrillation. <i>International Journal of Cardiology</i> , 2018 , 255, 61-68	3.2	13
73	The Molecular Pathophysiology of Atrial Fibrillation 2018 , 396-408		
72	Prof Niels Voigt talks to Prof Stanley Nattel about advances in atrial fibrillation research and career insights. <i>Cardiovascular Research</i> , 2018 , 114, e65	9.9	
71	Atrial fibrillation and heart failure-associated remodeling of two-pore-domain potassium (K) channels in murine disease models: focus on TASK-1. <i>Basic Research in Cardiology</i> , 2018 , 113, 27	11.8	22
70	Voltage-Gated Calcium Channels and Their Roles in Cardiac Electrophysiology. <i>Cardiac and Vascular Biology</i> , 2018 , 77-96	0.2	1
69	Ryanodine receptor dysfunction and the resolution revolution: how Nobel Prize-winning techniques transform cardiovascular research. <i>Cardiovascular Research</i> , 2018 , 114, e106-e109	9.9	
68	Axial Tubule Junctions Activate Atrial Ca Release Across Species. <i>Frontiers in Physiology</i> , 2018 , 9, 1227	4.6	21
67	ESC Congress 2018 highlights in basic science: a report from the Scientists of Tomorrow. <i>Cardiovascular Research</i> , 2018 , 114, e103-e105	9.9	2
66	Sarcoplasmic reticulum calcium leak contributes to arrhythmia but not to heart failure progression. <i>Science Translational Medicine</i> , 2018 , 10,	17.5	17
65	Niels Voigt talks to W. Jonathan Lederer, keynote lecturer at the "Göttingen Channels" Symposium 2017. <i>Cardiovascular Research</i> , 2018 , 114, e14	9.9	
64	Inverse remodelling of K2P3.1 K+ 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, 1764-1774	9.5	55
63	Stretch-activated two-pore-domain (K) potassium channels in the heart: Focus on atrial fibrillation and heart failure. <i>Progress in Biophysics and Molecular Biology</i> , 2017 , 130, 233-243	4.7	25
62	The inward rectifier current inhibitor PA-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	8.6	12
61	Nucleoside Diphosphate Kinase-C Suppresses cAMP Formation in Human Heart Failure. <i>Circulation</i> , 2017 , 135, 881-897	16.7	16
60	In search for novel functions of adenosine 5Triphosphate (ATP) in the heart. <i>Cardiovascular Research</i> , 2017 , 113, e59-e60	9.9	5

59	Response to Letter Regarding Article, "Upregulation of K2P3.1 K+ Current Causes Action Potential Shortening in Patients With Chronic Atrial Fibrillation". <i>Circulation</i> , 2016 , 133, e440-1	16.7	4
58	Dysfunction of the β -spectrin-based pathway in human heart failure. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016 , 310, H1583-91	5.2	17
57	S-glutathiolation impairs phosphoregulation and function of cardiac myosin-binding protein C in human heart failure. <i>FASEB Journal</i> , 2016 , 30, 1849-64	0.9	22
56	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, 467-79	9.9	108
55	Computational models of atrial cellular electrophysiology and calcium handling, and their role in atrial fibrillation. <i>Journal of Physiology</i> , 2016 , 594, 537-53	3.9	34
54	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	5.8	15
53	Atrial-Selective Potassium Channel Blockers. <i>Cardiac Electrophysiology Clinics</i> , 2016 , 8, 411-21	1.4	24
52	Identification of microRNA-mRNA dysregulations in paroxysmal atrial fibrillation. <i>International Journal of Cardiology</i> , 2015 , 184, 190-197	3.2	32
51	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	11.8	25
50	Atrial Fibrillation Activates AMP-Dependent Protein Kinase and its Regulation of Cellular Calcium Handling: Potential Role in Metabolic Adaptation and Prevention of Progression. <i>Journal of the American College of Cardiology</i> , 2015 , 66, 47-58	15.1	54
49	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	16.7	120
48	Methods for isolating atrial cells from large mammals and humans. <i>Journal of Molecular and Cellular Cardiology</i> , 2015 , 86, 187-98	5.8	15
47	New antiarrhythmic targets in atrial fibrillation. <i>Future Cardiology</i> , 2015 , 11, 645-54	1.3	2
46	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, 263-73 ¹	7.3 ¹	16
45	Calcium Handling Abnormalities as a Target for Atrial Fibrillation Therapeutics: How Close to Clinical Implementation?. <i>Journal of Cardiovascular Pharmacology</i> , 2015 , 66, 515-22	3.1	12
44	Dysfunction in the β spectrin-dependent cytoskeleton underlies human arrhythmia. <i>Circulation</i> , 2015 , 131, 695-708	16.7	41
43	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, 163-73	15.1	31
42	Cellular and molecular electrophysiology of atrial fibrillation initiation, maintenance, and progression. <i>Circulation Research</i> , 2014 , 114, 1483-99	15.7	373

41	Cellular and molecular mechanisms of atrial arrhythmogenesis in patients with paroxysmal atrial fibrillation. <i>Circulation</i> , 2014 , 129, 145-156	16.7	273
40	Cardiac safety assays. <i>Current Opinion in Pharmacology</i> , 2014 , 15, 16-21	5.1	30
39	Calcium dysregulation in atrial fibrillation: the role of CaMKII. <i>Frontiers in Pharmacology</i> , 2014 , 5, 30	5.6	35
38	Constitutive activity of the acetylcholine-activated potassium current $I_{K,ACh}$ in cardiomyocytes. <i>Advances in Pharmacology</i> , 2014 , 70, 393-409	5.7	25
37	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, 1214-22	6.4	78
36	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	16.7	114
35	Impaired local regulation of ryanodine receptor type 2 by protein phosphatase 1 promotes atrial fibrillation. <i>Cardiovascular Research</i> , 2014 , 103, 178-87	9.9	49
34	The Molecular Pathophysiology of Atrial Fibrillation 2014 , 449-458		0
33	Tachycardia-induced silencing of subcellular Ca^{2+} signaling in atrial myocytes. <i>Journal of Clinical Investigation</i> , 2014 , 124, 4759-72	15.9	77
32	Cholinergic and Constitutive Regulation of Atrial Potassium Channel 2014 , 383-391		
31	Mutation E169K in junctophilin-2 causes atrial fibrillation due to impaired RyR2 stabilization. <i>Journal of the American College of Cardiology</i> , 2013 , 62, 2010-9	15.1	120
30	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, 142-52	5.8	30
29	Rhythm control of atrial fibrillation in heart failure. <i>Heart Failure Clinics</i> , 2013 , 9, 407-15, vii-viii	3.3	6
28	New directions in antiarrhythmic drug therapy for atrial fibrillation. <i>Future Cardiology</i> , 2013 , 9, 71-88	1.3	36
27	MicroRNA29: a mechanistic contributor and potential biomarker in atrial fibrillation. <i>Circulation</i> , 2013 , 127, 1466-75, 1475e1-28	16.7	178
26	Oxidized Ca^{2+} /calmodulin-dependent protein kinase II triggers atrial fibrillation. <i>Circulation</i> , 2013 , 128, 1748-57	16.7	186
25	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	4.7	54
24	Isolation of human atrial myocytes for simultaneous measurements of Ca^{2+} transients and membrane currents. <i>Journal of Visualized Experiments</i> , 2013 , e50235	1.6	11

23	Calcium handling and atrial fibrillation. <i>Wiener Medizinische Wochenschrift</i> , 2012 , 162, 287-91	2.9	21
22	Transient receptor potential canonical-3 channel-dependent fibroblast regulation in atrial fibrillation. <i>Circulation</i> , 2012 , 126, 2051-64	16.7	185
21	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, 2059-70	16.7	395
20	Role of RyR2 phosphorylation at S2814 during heart failure progression. <i>Circulation Research</i> , 2012 , 110, 1474-83	15.7	158
19	Inhibition of CaMKII phosphorylation of RyR2 prevents induction of atrial fibrillation in FKBP12.6 knockout mice. <i>Circulation Research</i> , 2012 , 110, 465-70	15.7	109
18	Cellular and molecular correlates of ectopic activity in patients with atrial fibrillation. <i>Europace</i> , 2012 , 14 Suppl 5, v97-v105	3.9	9
17	Proarrhythmic atrial calcium cycling in the diseased heart. <i>Advances in Experimental Medicine and Biology</i> , 2012 , 740, 1175-91	3.6	11
16	The ryanodine receptor channel as a molecular motif in atrial fibrillation: pathophysiological and therapeutic implications. <i>Cardiovascular Research</i> , 2011 , 89, 734-43	9.9	80
15	Defects in ankyrin-based membrane protein targeting pathways underlie atrial fibrillation. <i>Circulation</i> , 2011 , 124, 1212-22	16.7	78
14	Differential protein kinase C isoform regulation and increased constitutive activity of acetylcholine-regulated potassium channels in atrial remodeling. <i>Circulation Research</i> , 2011 , 109, 1031-43	15.7	69
13	Ca(2+)-related signaling and protein phosphorylation abnormalities play central roles in a new experimental model of electrical storm. <i>Circulation</i> , 2011 , 123, 2192-203	16.7	43
12	Recent advances in the molecular pathophysiology of atrial fibrillation. <i>Journal of Clinical Investigation</i> , 2011 , 121, 2955-68	15.9	369
11	Human atrial action potential and Ca ²⁺ model: sinus rhythm and chronic atrial fibrillation. <i>Circulation Research</i> , 2011 , 109, 1055-66	15.7	238
10	Oxidized CaMKII causes cardiac sinus node dysfunction in mice. <i>Journal of Clinical Investigation</i> , 2011 , 121, 3277-88	15.9	154
9	Ion Channel Remodelling in Atrial Fibrillation. <i>European Cardiology Review</i> , 2011 , 7, 97	3.9	7
8	Multiple potential molecular contributors to atrial hypocontractility caused by atrial tachycardia remodeling in dogs. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2010 , 3, 530-41	6.4	83
7	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, 472-80	6.4	154
6	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, 653-75	1.7	14

5	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, 251-9	3.4	38
4	Pathology-specific effects of the IKur/Ito/IK,ACh blocker AVE0118 on ion channels in human chronic atrial fibrillation. <i>British Journal of Pharmacology</i> , 2008 , 154, 1619-30	8.6	89
3	Changes in I K, ACh single-channel activity with atrial tachycardia remodelling in canine atrial cardiomyocytes. <i>Cardiovascular Research</i> , 2008 , 77, 35-43	9.9	69
2	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, 426-37	9.9	91
1	The G protein-gated potassium current I(K,ACh) is constitutively active in patients with chronic atrial fibrillation. <i>Circulation</i> , 2005 , 112, 3697-706	16.7	345