

# Torsten Christ

## List of Publications by Year in descending order

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92  
papers

4,061  
citations

117625

34  
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123424

61  
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all docs

92  
docs citations

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times ranked

4571  
citing authors

#	ARTICLE	IF	CITATIONS
1	Comprehensive analyses of the inotropic compound omecamtiv mecarbil in rat and human cardiac preparations. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2022, 322, H373-H385.	3.2	11
2	Muscarinic Receptor Activation Reduces Force and Arrhythmias in Human Atria Independent of IK,ACh. <i>Journal of Cardiovascular Pharmacology</i> , 2022, 79, 678-686.	1.9	4
3	No impact of sex and age on beta-adrenoceptor-mediated inotropy in human right atrial trabeculae. <i>Acta Physiologica</i> , 2021, 231, e13564.	3.8	5
4	Impact of phosphodiesterases PDE3 and PDE4 on 5-hydroxytryptamine receptor4-mediated increase of cAMP in human atrial fibrillation. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2021, 394, 291-298.	3.0	11
5	Blunted beta-adrenoceptor-mediated inotropy in valvular cardiomyopathy: another piece of the puzzle in human aortic valve disease. <i>European Journal of Cardio-thoracic Surgery</i> , 2021, 60, 56-63.	1.4	2
6	Are atrial human pluripotent stem cell-derived cardiomyocytes ready to identify drugs that beat atrial fibrillation?. <i>Nature Communications</i> , 2021, 12, 1725.	12.8	11
7	Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes: The New Working Horse in Cardiovascular Pharmacology?. <i>Journal of Cardiovascular Pharmacology</i> , 2021, 77, 265-266.	1.9	1
8	Human Engineered Heart Tissue Patches Remuscularize the Injured Heart in a Dose-Dependent Manner. <i>Circulation</i> , 2021, 143, 1991-2006.	1.6	73
9	Regulation of basal and norepinephrine-induced cAMP and I <sub>Ca</sub> in hiPSC-cardiomyocytes: Effects of culture conditions and comparison to adult human atrial cardiomyocytes. <i>Cellular Signalling</i> , 2021, 82, 109970.	3.6	4
10	Translational investigation of electrophysiology in hypertrophic cardiomyopathy. <i>Journal of Molecular and Cellular Cardiology</i> , 2021, 157, 77-89.	1.9	16
11	New Strategies for the Treatment of Atrial Fibrillation. <i>Pharmaceuticals</i> , 2021, 14, 926.	3.8	6
12	Intermittent Optogenetic Tachypacing of Atrial Engineered Heart Tissue Induces Only Limited Electrical Remodelling. <i>Journal of Cardiovascular Pharmacology</i> , 2021, 77, 291-299.	1.9	11
13	Chronic intermittent tachypacing by an optogenetic approach induces arrhythmia vulnerability in human engineered heart tissue. <i>Cardiovascular Research</i> , 2020, 116, 1487-1499.	3.8	38
14	Ca <sup>2+</sup> currents in cardiomyocytes: How to improve interpretation of patch clamp data?. <i>Progress in Biophysics and Molecular Biology</i> , 2020, 157, 33-39.	2.9	13
15	Inhibition of Adenosine Pathway Alters Atrial Electrophysiology and Prevents Atrial Fibrillation. <i>Frontiers in Physiology</i> , 2020, 11, 493.	2.8	12
16	Regulation of I <sub>Ca,L</sub> and force by PDEs in human-induced pluripotent stem cell-derived cardiomyocytes. <i>British Journal of Pharmacology</i> , 2020, 177, 3036-3045.	5.4	10
17	Case Report on: Very Early Afterdepolarizations in hiPSC-Cardiomyocytes—An Artifact by Big Conductance Calcium Activated Potassium Current (I <sub>bc,Ca</sub> ). <i>Cells</i> , 2020, 9, 253.	4.1	10
18	Divergent off-target effects of RSK N-terminal and C-terminal kinase inhibitors in cardiac myocytes. <i>Cellular Signalling</i> , 2019, 63, 109362.	3.6	6

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19	Disease modeling of a mutation in $\beta$ -actinin 2 guides clinical therapy in hypertrophic cardiomyopathy. <i>EMBO Molecular Medicine</i> , 2019, 11, e11115.	6.9	88
20	Cardiac glial cells release neurotrophic S100B upon catheter-based treatment of atrial fibrillation. <i>Science Translational Medicine</i> , 2019, 11, .	12.4	57
21	DPP10 is a new regulator of Nav1.5 channels in human heart. <i>International Journal of Cardiology</i> , 2019, 284, 68-73.	1.7	6
22	Mechanistic role of the CREB-regulated transcription coactivator 1 in cardiac hypertrophy. <i>Journal of Molecular and Cellular Cardiology</i> , 2019, 127, 31-43.	1.9	5
23	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
24	Low Resting Membrane Potential and Low Inward Rectifier Potassium Currents Are Not Inherent Features of hiPSC-Derived Cardiomyocytes. <i>Stem Cell Reports</i> , 2018, 10, 822-833.	4.8	92
25	<i>In Vitro</i> Negative Inotropic Effect of Low Concentrations of Bupivacaine Relates to Diminished $Ca^{2+}$ Sensitivity but Not to $Ca^{2+}$ Handling or $\beta^2$ -Adrenoceptor Signaling. <i>Anesthesiology</i> , 2018, 128, 1175-1186.	2.5	2
26	Normalization of force to muscle cross-sectional area: A helpful attempt to reduce data scattering in contractility studies?. <i>Acta Physiologica</i> , 2018, 224, e13202.	3.8	7
27	Atrial-like Engineered Heart Tissue: An <i>In Vitro</i> Model of the Human Atrium. <i>Stem Cell Reports</i> , 2018, 11, 1378-1390.	4.8	132
28	Rat atrial engineered heart tissue: a new in vitro model to study atrial biology. <i>Basic Research in Cardiology</i> , 2018, 113, 41.	5.9	34
29	Human Induced Pluripotent Stem Cell-Derived Engineered Heart Tissue as a Sensitive Test System for QT Prolongation and Arrhythmic Triggers. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2018, 11, e006035.	4.8	70
30	Inhibition of Small Conductance Calcium-Activated Potassium (SK) Channels Prevents Arrhythmias in Rat Atria During $\beta^2$ -Adrenergic and Muscarinic Receptor Activation. <i>Frontiers in Physiology</i> , 2018, 9, 510.	2.8	22
31	Blinded Contractility Analysis in hiPSC-Cardiomyocytes in Engineered Heart Tissue Format: Comparison With Human Atrial Trabeculae. <i>Toxicological Sciences</i> , 2017, 158, 164-175.	3.1	52
32	Human iPSC-derived cardiomyocytes cultured in 3D engineered heart tissue show physiological upstroke velocity and sodium current density. <i>Scientific Reports</i> , 2017, 7, 5464.	3.3	140
33	Cafedrine/Theodrenaline (20:1) Is an Established Alternative for the Management of Arterial Hypotension in Germany—a Review Based on a Systematic Literature Search. <i>Frontiers in Pharmacology</i> , 2017, 8, 68.	3.5	17
34	Akrinor <sup>TM</sup> , a Cafedrine/ Theodrenaline Mixture (20:1), Increases Force of Contraction of Human Atrial Myocardium But Does Not Constrict Internal Mammary Artery <i>In Vitro</i> . <i>Frontiers in Pharmacology</i> , 2017, 8, 272.	3.5	10
35	$Ca^{2+}$ -Currents in Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes Effects of Two Different Culture Conditions. <i>Frontiers in Pharmacology</i> , 2016, 7, 300.	3.5	47
36	In permanent atrial fibrillation, PDE3 reduces force responses to 5-HT, but PDE3 and PDE4 do not cause the blunting of atrial arrhythmias. <i>British Journal of Pharmacology</i> , 2016, 173, 2478-2489.	5.4	18

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37	Refractoriness in human atria: Time and voltage dependence of sodium channel availability. <i>Journal of Molecular and Cellular Cardiology</i> , 2016, 101, 26-34.	1.9	35
38	Block of Na <sup>+</sup> /Ca <sup>2+</sup> exchanger by SEA0400 in human right atrial preparations from patients in sinus rhythm and in atrial fibrillation. <i>European Journal of Pharmacology</i> , 2016, 788, 286-293.	3.5	13
39	Human Engineered Heart Tissue: Analysis of Contractile Force. <i>Stem Cell Reports</i> , 2016, 7, 29-42.	4.8	292
40	Ranolazine antagonizes catecholamine-induced dysfunction in isolated cardiomyocytes, but lacks long-term therapeutic effects <i>in vivo</i> in a mouse model of hypertrophic cardiomyopathy. <i>Cardiovascular Research</i> , 2016, 109, 90-102.	3.8	38
41	$\beta_1$ Adrenoceptor antagonistic effects of the supposedly selective $\beta_2$ adrenoceptor antagonist ICI 118,551 on the positive inotropic effect of adrenaline in murine hearts. <i>Pharmacology Research and Perspectives</i> , 2015, 3, e00168.	2.4	4
42	Prolonged action potentials in HCM-derived iPSC - biology or artefact?. <i>Cardiovascular Research</i> , 2015, 106, 6-6.	3.8	5
43	Treatment of Atrial Fibrillation and Atrial Flutter. , 2015, , 1059-1079.		0
44	LQT1-phenotypes in hiPSC: Are we measuring the right thing?. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E1968.	7.1	15
45	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
46	Cardiac Arrhythmias: Introduction, Electrophysiology of the Heart, Action Potential and Membrane Currents. , 2015, , 977-1002.		1
47	Arrhythmias, elicited by catecholamines and serotonin, vanish in human chronic atrial fibrillation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 11193-11198.	7.1	75
48	Effects of proarrhythmic drugs on relaxation time and beating pattern in rat engineered heart tissue. <i>Basic Research in Cardiology</i> , 2014, 109, 436.	5.9	30
49	Attenuated response of L-type calcium current to nitric oxide in atrial fibrillation. <i>Cardiovascular Research</i> , 2014, 101, 533-542.	3.8	24
50	Small-conductance calcium-activated potassium (SK) channels contribute to action potential repolarization in human atria. <i>Cardiovascular Research</i> , 2014, 103, 156-167.	3.8	168
51	Atrial-selective Antiarrhythmic Activity by Vernakalant Fact or Fiction?. <i>Journal of Cardiovascular Pharmacology</i> , 2014, 63, 23-24.	1.9	4
52	Prostaglandin E2 does not attenuate adrenergic-induced cardiac contractile response. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2014, 387, 963-968.	3.0	2
53	Carvedilol induces greater control of $\beta_2$ - than $\beta_1$ -adrenoceptor-mediated inotropic and lusitropic effects by PDE3, while PDE4 has no effect in human failing myocardium. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2014, 387, 629-640.	3.0	11
54	Myocardial Accumulation of Bupivacaine and Ropivacaine Is Associated with Reversible Effects on Mitochondria and Reduced Myocardial Function. <i>Anesthesia and Analgesia</i> , 2013, 116, 83-92.	2.2	19

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55	$\beta_3$ -adrenoceptor, but not $\beta_1$ -adrenoceptor, reduces $\beta_1$ - and $\beta_2$ -adrenoceptor-mediated inotropic and lusitropic effects in failing ventricle from metoprolol-treated patients. <i>British Journal of Pharmacology</i> , 2013, 169, 528-538.	5.4	50
56	The new antiarrhythmic drug vernakalant: ex vivo study of human atrial tissue from sinus rhythm and chronic atrial fibrillation. <i>Cardiovascular Research</i> , 2013, 98, 145-154.	3.8	90
57	Human Electrophysiological and Pharmacological Properties of XEN-D0101. <i>Journal of Cardiovascular Pharmacology</i> , 2013, 61, 408-415.	1.9	52
58	Sphingosine-1-phosphate induces contraction of valvular interstitial cells from porcine aortic valves. <i>Cardiovascular Research</i> , 2012, 93, 490-497.	3.8	18
59	Skeletal muscle stem cells propagated as myospheres display electrophysiological properties modulated by culture conditions. <i>Journal of Molecular and Cellular Cardiology</i> , 2011, 50, 357-366.	1.9	9
60	Human atrial $\beta_1$ -adrenoceptor but not $\beta_3$ -adrenoceptor activation increases force and $Ca^{2+}$ current at physiological temperature. <i>British Journal of Pharmacology</i> , 2011, 162, 823-839.	5.4	27
61	Inhibition of $I_{K,ACh}$ 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
62	Adult zebrafish heart as a model for human heart? An electrophysiological study. <i>Journal of Molecular and Cellular Cardiology</i> , 2010, 48, 161-171.	1.9	192
63	Tissue Slices from Adult Mammalian Hearts as a Model for Pharmacological Drug Testing. <i>Cellular Physiology and Biochemistry</i> , 2009, 24, 527-536.	1.6	68
64	Inotropy and L-type $Ca^{2+}$ current, activated by $\beta_1$ - and $\beta_2$ -adrenoceptors, are differently controlled by phosphodiesterases 3 and 4 in rat heart. <i>British Journal of Pharmacology</i> , 2009, 156, 62-83.	5.4	48
65	Adipocyte Fatty Acid-Binding Protein Suppresses Cardiomyocyte Contraction. <i>Circulation Research</i> , 2009, 105, 326-334.	4.5	167
66	Chelerythrine treatment influences the balance of pro- and anti-apoptotic signaling pathways in the remote myocardium after infarction. <i>Molecular and Cellular Biochemistry</i> , 2008, 310, 119-128.	3.1	13
67	Electrophysiological profile of propiverine - relationship to cardiac risk. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2008, 376, 431-440.	3.0	15
68	Effects of three metabolites of propiverine on voltage-dependent L-type calcium currents in human atrial myocytes. <i>European Journal of Pharmacology</i> , 2008, 598, 94-97.	3.5	4
69	Differential phosphorylation-dependent regulation of constitutively active and muscarinic receptor-activated $I_{K,ACh}$ channels in patients with chronic atrial fibrillation. <i>Cardiovascular Research</i> , 2007, 74, 426-437.	3.8	110
70	The Effects of Levosimendan on Myocardial Function in Ropivacaine Toxicity in Isolated Guinea Pig Heart Preparations. <i>Anesthesia and Analgesia</i> , 2007, 105, 641-647.	2.2	13
71	Novel anti-arrhythmic agents for the treatment of atrial fibrillation. <i>Current Opinion in Pharmacology</i> , 2007, 7, 214-218.	3.5	13
72	Interaction between autoantibodies against the $\beta_1$ -adrenoceptor and isoprenaline in enhancing L-type $Ca^{2+}$ current in rat ventricular myocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2006, 41, 716-723.	1.9	19

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73	A new toxin from the sea anemone <i>Condylactis gigantea</i> with effect on sodium channel inactivation. <i>Toxicol</i> , 2006, 48, 211-220.	1.6	43
74	5-Azacytidine induces changes in electrophysiological properties of human mesenchymal stem cells. <i>Cell Research</i> , 2006, 16, 949-960.	12.0	76
75	Carvedilol blocks $\beta_2$ - more than $\beta_1$ -adrenoceptors in human heart. <i>Cardiovascular Research</i> , 2006, 69, 128-139.	3.8	29
76	Biophysical Characterization of the New Human Ether-A-Go-Go-Related Gene Channel Opener NS3623 [N-(4-Bromo-2-(1H-tetrazol-5-yl)-phenyl)-N $\epsilon$ -(3-trifluoromethylphenyl)urea]. <i>Molecular Pharmacology</i> , 2006, 70, 1319-1329.	2.3	67
77	Activation of Human ether-a-go-go-Related Gene Potassium Channels by the Diphenylurea 1,3-Bis-(2-hydroxy-5-trifluoromethyl-phenyl)-urea (NS1643). <i>Molecular Pharmacology</i> , 2006, 69, 266-277.	2.3	135
78	Letter by Christ et al Regarding Article, "Angiotensin II Potentiates the Slow Component of Delayed Rectifier K <sup>+</sup> Current via the AT <sub>1</sub> Receptor in Guinea Pig Atrial Myocytes". <i>Circulation</i> , 2006, 114, e565; author reply e566.	1.6	2
79	Pharmacodynamics of propiverine and three of its main metabolites on detrusor contraction. <i>British Journal of Pharmacology</i> , 2005, 145, 608-619.	5.4	42
80	Effects of Immunoglobulin G from Patients with Dilated Cardiomyopathy on Rat Cardiomyocytes. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2005, 96, 445-452.	2.5	9
81	Risperidone-induced action potential prolongation is attenuated by increased repolarization reserve due to concomitant block of I <sub>Ca,L</sub> . <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2005, 371, 393-400.	3.0	24
82	Human Atrial Ion Channel and Transporter Subunit Gene-Expression Remodeling Associated With Valvular Heart Disease and Atrial Fibrillation. <i>Circulation</i> , 2005, 112, 471-481.	1.6	215
83	Do we need new antiarrhythmic compounds in the era of implantable cardiac devices and percutaneous ablation?. <i>Cardiovascular Research</i> , 2005, 68, 341-343.	3.8	4
84	Muscarinic subtype-2 receptor autoantibodies: actors or bystanders in human atrial fibrillation?. <i>European Heart Journal</i> , 2004, 25, 1091-1092.	2.2	9
85	Role of IK <sub>ATP</sub> in Controlling Action Potential Shape and Contractility in the Human Atrium. <i>Circulation</i> , 2004, 110, 2299-2306.	1.6	269
86	Recording Atrial Monophasic Action Potentials Using Standard Pacemaker Leads: An Alternative Way to Study Electrophysiological Properties of the Human Atrium In Vivo?. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2004, 27, 1632-1637.	1.2	3
87	Electrophysiological properties of human mesenchymal stem cells. <i>Journal of Physiology</i> , 2004, 554, 659-672.	2.9	183
88	An aqueous extract of the marine sponge <i>Ectyoplasia ferox</i> stimulates L-type Ca <sup>2+</sup> -current by direct interaction with the Cav1.2 subunit. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2004, 370, 474-483.	3.0	8
89	Decreased ATP-sensitive K <sup>+</sup> current density during chronic human atrial fibrillation. <i>Journal of Molecular and Cellular Cardiology</i> , 2003, 35, 1399-1405.	1.9	42
90	Rate-adaptive pacing using intracardiac impedance shows no evidence for positive feedback during dobutamine stress test. <i>Europace</i> , 2002, 4, 311-315.	1.7	2

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91	An aqueous extract of a marine sponge stimulates L-type Ca <sup>2+</sup> -current and increases force of contraction. <i>Journal of Molecular and Cellular Cardiology</i> , 2002, 34, A70.	1.9	1
92	Autoantibodies Against the $\beta_1$ adrenoceptor from Patients with Dilated Cardiomyopathy Prolong Action Potential Duration and Enhance Contractility in Isolated Cardiomyocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2001, 33, 1515-1525.	1.9	114