

Christian Aalkjr

List of Publications by Citations

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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.

48
papers

1,069
citations

15
h-index

32
g-index

48
ext. papers

1,207
ext. citations

6.8
avg, IF

4.3
L-index

#	Paper	IF	Citations
48	Hypothesis for the initiation of vasomotion. <i>Circulation Research</i> , 2001 , 88, 810-5	15.7	211
47	An electroneutral sodium/bicarbonate cotransporter NBCn1 and associated sodium channel. <i>Nature</i> , 2000 , 405, 571-5	50.4	208
46	Junctional and nonjunctional effects of heptanol and glycyrrhetic acid derivatives in rat mesenteric small arteries. <i>British Journal of Pharmacology</i> , 2004 , 142, 961-72	8.6	73
45	Basolateral Na ⁺ -dependent HCO ₃ ⁻ transporter NBCn1-mediated HCO ₃ ⁻ influx in rat medullary thick ascending limb. <i>Journal of Physiology</i> , 2004 , 555, 205-18	3.9	64
44	Immunolocalization of electroneutral Na-HCO ₃ ⁻ cotransporter in rat kidney. <i>American Journal of Physiology - Renal Physiology</i> , 2000 , 279, F901-9	4.3	59
43	Cation-coupled bicarbonate transporters. <i>Comprehensive Physiology</i> , 2014 , 4, 1605-37	7.7	38
42	Bradykinin relaxation in small porcine retinal arterioles. <i>Investigative Ophthalmology and Visual Science</i> , 2002 , 43, 1891-6		32
41	Myogenic response in isolated porcine retinal arterioles. <i>Current Eye Research</i> , 2003 , 27, 217-22	2.9	31
40	Distribution of cGMP-dependent and cGMP-independent Ca ²⁺ -activated Cl ⁻ conductances in smooth muscle cells from different vascular beds and colon. <i>Pflugers Archiv European Journal of Physiology</i> , 2005 , 451, 371-9	4.6	30
39	Antiphase oscillations of endothelium and smooth muscle [Ca ²⁺] _i in vasomotion of rat mesenteric small arteries. <i>Cell Calcium</i> , 2007 , 42, 536-47	4	28
38	ATP-induced relaxation of porcine retinal arterioles depends on the perivascular retinal tissue and acts via an adenosine receptor. <i>Current Eye Research</i> , 2007 , 32, 353-9	2.9	23
37	Intravital investigation of rat mesenteric small artery tone and blood flow. <i>Journal of Physiology</i> , 2017 , 595, 5037-5053	3.9	22
36	The thick left ventricular wall of the giraffe heart normalises wall tension, but limits stroke volume and cardiac output. <i>Journal of Experimental Biology</i> , 2016 , 219, 457-63	3	17
35	The role of Ca ²⁺ activated Cl ⁻ channels in blood pressure control. <i>Current Opinion in Pharmacology</i> , 2015 , 21, 127-37	5.1	16
34	Effect of acidosis on isolated porcine retinal vessels. <i>Current Eye Research</i> , 2006 , 31, 427-34	2.9	16
33	4-Aminopyridine: a pan voltage-gated potassium channel inhibitor that enhances K _v 7.4 currents and inhibits noradrenaline-mediated contraction of rat mesenteric small arteries. <i>British Journal of Pharmacology</i> , 2018 , 175, 501-516	8.6	15
32	KATP-channel-induced vasodilation is modulated by the Na,K-pump activity in rabbit coronary small arteries. <i>British Journal of Pharmacology</i> , 2004 , 143, 872-80	8.6	14

31	Constriction of porcine retinal arterioles induced by endothelin-1 and the thromboxane analogue U46619 in vitro decreases with increasing vascular branching level. <i>Acta Ophthalmologica</i> , 2014 , 92, 232-237	3.7	13
30	Microtubule Regulation of Kv7 Channels Orchestrates cAMP-Mediated Vasorelaxations in Rat Arterial Smooth Muscle. <i>Hypertension</i> , 2018 , 71, 336-345	8.5	12
29	The vasodilating effects of insulin and lactate are increased in precapillary arterioles in the porcine retina ex vivo. <i>Acta Ophthalmologica</i> , 2016 , 94, 454-62	3.7	11
28	Smooth muscle Ca sensitization causes hypercontractility of middle cerebral arteries in mice bearing the familial hemiplegic migraine type 2 associated mutation. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019 , 39, 1570-1587	7.3	11
27	PDE1A inhibition elicits cGMP-dependent relaxation of rat mesenteric arteries. <i>British Journal of Pharmacology</i> , 2017 , 174, 4186-4198	8.6	10
26	Endothelial dysfunction in resistance arteries is related to high blood pressure and circulating low density lipoproteins in previously treated hypertension. <i>American Journal of Hypertension</i> , 2001 , 14, 861-873	2.3	10
25	Brain capillary pericytes and neurovascular coupling. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2021 , 254, 110893	2.6	10
24	GLP-1 inhibits VEGFA-mediated signaling in isolated human endothelial cells and VEGFA-induced dilation of rat mesenteric arteries. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016 , 311, H1214-H1224	5.2	10
23	Sympathetic and Sensory-Motor Nerves in Peripheral Small Arteries. <i>Physiological Reviews</i> , 2021 , 101, 495-544	47.9	10
22	Differential effects of nitric oxide and cyclo-oxygenase inhibition on the diameter of porcine retinal vessels with different caliber during hypoxia ex vivo. <i>Experimental Eye Research</i> , 2017 , 160, 38-44	3.7	9
21	Impaired endothelial calcium signaling is responsible for the defective dilation of mesenteric resistance arteries from db/db mice to acetylcholine. <i>European Journal of Pharmacology</i> , 2015 , 767, 17-23	5.3	9
20	The vasodilating effect of glucose differs among vessels at different branching level in the porcine retina ex vivo. <i>Experimental Eye Research</i> , 2019 , 179, 150-156	3.7	8
19	Rat mesenteric small artery neurogenic dilatation is predominantly mediated by β adrenoceptors in vivo. <i>Journal of Physiology</i> , 2019 , 597, 1819-1831	3.9	6
18	Abnormal neurovascular coupling as a cause of excess cerebral vasodilation in familial migraine. <i>Cardiovascular Research</i> , 2020 , 116, 2009-2020	9.9	6
17	The Remarkable Cardiovascular System of Giraffes. <i>Annual Review of Physiology</i> , 2021 , 83, 1-15	23.1	6
16	Prostaglandin induced changes in the tone of porcine retinal arterioles in vitro involve other factors than calcium activity in perivascular cells. <i>Experimental Eye Research</i> , 2015 , 138, 96-103	3.7	4
15	Short chained fatty acids and the colon: how do they cause vasodilatation?. <i>Journal of Physiology</i> , 2002 , 538, 674	3.9	4
14	Dynein regulates Kv7.4 channel trafficking from the cell membrane. <i>Journal of General Physiology</i> , 2021 , 153,	3.4	4

13	The Na,K-ATPase-Dependent Src Kinase Signaling Changes with Mesenteric Artery Diameter. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	4
12	Perivascular Adipose Tissue Contributes to the Modulation of Vascular Tone in vivo. <i>Journal of Vascular Research</i> , 2019 , 56, 320-332	1.9	3
11	[Ca ²⁺] changes in sympathetic varicosities and Schwann cells in rat mesenteric arteries-Relation to noradrenaline release and contraction. <i>Acta Physiologica</i> , 2019 , 226, e13279	5.6	3
10	Sensitivity to the thromboxane A2 analog U46619 varies with inner diameter in human stem villous arteries. <i>Placenta</i> , 2016 , 39, 111-5	3.4	3
9	Differential Effects of Intra- and Extravascular ATP on the Diameter of Porcine Vessels at Different Branching Levels Ex Vivo 2020 , 61, 8		2
8	Localization of NBCn1 (slc4a7) by a non-immunological method. <i>FASEB Journal</i> , 2007 , 21, A1283	0.9	1
7	A sex-specific, COX-derived/thromboxane receptor activator causes depolarization and vasoconstriction in male mice mesenteric resistance arteries. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2020 , 127, 152-159	3.1	1
6	ATP induced calcium signaling activity in perivascular cells differ at different vascular branch levels in the porcine retina. <i>Microvascular Research</i> , 2022 , 139, 104256	3.7	1
5	Migraine-Associated Mutation in the Na,K-ATPase Leads to Disturbances in Cardiac Metabolism and Reduced Cardiac Function.. <i>Journal of the American Heart Association</i> , 2022 , e021814	6	1
4	The electroneutral Na ⁺ HCO ₃ ⁻ cotransporter NBCn1 plays an essential role in duodenal acid/base balance and colonic mucus layer build-up in anaesthetised mice. <i>FASEB Journal</i> , 2013 , 27, 730.4	0.9	0
3	Did giraffe cardiovascular evolution solve the problem of heart failure with preserved ejection fraction?. <i>Evolution, Medicine and Public Health</i> , 2021 , 9, 248-255	3	0
2	The ins and outs of acid-base transport in skeletal muscle. <i>Journal of General Physiology</i> , 2018 , 150, 3-6	3.4	
1	Abnormal neurovascular signaling in mouse model for familial hemiplegic migraine type 2. <i>FASEB Journal</i> , 2019 , 33, 688.14	0.9	