

# Adrian D Boney

## List of Publications by Year in descending order

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67  
papers

6,539  
citations

101543

36  
h-index

149698

56  
g-index

68  
all docs

68  
docs citations

68  
times ranked

4498  
citing authors

#	ARTICLE	IF	CITATIONS
1	Vasoregulation by the $\beta_1$ subunit of the calcium-activated potassium channel. <i>Nature</i> , 2000, 407, 870-876.	27.8	772
2	Local potassium signaling couples neuronal activity to vasodilation in the brain. <i>Nature Neuroscience</i> , 2006, 9, 1397-1403.	14.8	487
3	Elementary $Ca^{2+}$ Signals Through Endothelial TRPV4 Channels Regulate Vascular Function. <i>Science</i> , 2012, 336, 597-601.	12.6	479
4	Altered Expression of Small-Conductance $Ca^{2+}$ -Activated $K^{+}$ (SK3) Channels Modulates Arterial Tone and Blood Pressure. <i>Circulation Research</i> , 2003, 93, 124-131.	4.5	301
5	Astrocytic endfoot $Ca^{2+}$ and BK channels determine both arteriolar dilation and constriction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 3811-3816.	7.1	265
6	Functional Coupling of Ryanodine Receptors to $KCa$ Channels in Smooth Muscle Cells from Rat Cerebral Arteries. <i>Journal of General Physiology</i> , 1999, 113, 229-238.	1.9	261
7	Functional architecture of inositol 1,4,5-trisphosphate signaling in restricted spaces of myoendothelial projections. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 9627-9632.	7.1	252
8	Calcium Dynamics in Cortical Astrocytes and Arterioles During Neurovascular Coupling. <i>Circulation Research</i> , 2004, 95, e73-81.	4.5	230
9	Gender Differences in Coronary Artery Diameter Involve Estrogen, Nitric Oxide, and $Ca^{2+}$ -Dependent $K^{+}$ Channels. <i>Circulation Research</i> , 1996, 79, 1024-1030.	4.5	214
10	Modulation of the molecular composition of large conductance, $Ca^{2+}$ activated $K^{+}$ channels in vascular smooth muscle during hypertension. <i>Journal of Clinical Investigation</i> , 2003, 112, 717-724.	8.2	208
11	Frequency modulation of $Ca^{2+}$ sparks is involved in regulation of arterial diameter by cyclic nucleotides. <i>American Journal of Physiology - Cell Physiology</i> , 1998, 274, C1346-C1355.	4.6	194
12	Micromolar $Ca^{2+}$ from sparks activates $Ca^{2+}$ -sensitive $K^{+}$ channels in rat cerebral artery smooth muscle. <i>American Journal of Physiology - Cell Physiology</i> , 2001, 281, C1769-C1775.	4.6	186
13	Differential patterning of cGMP in vascular smooth muscle cells revealed by single GFP-linked biosensors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 365-370.	7.1	157
14	AKAP150-dependent cooperative TRPV4 channel gating is central to endothelium-dependent vasodilation and is disrupted in hypertension. <i>Science Signaling</i> , 2014, 7, ra66.	3.6	151
15	Kir2.1 encodes the inward rectifier potassium channel in rat arterial smooth muscle cells. <i>Journal of Physiology</i> , 1999, 515, 639-651.	2.9	135
16	$\beta_1$ subunit of the $Ca^{2+}$ -activated $K^{+}$ channel regulates contractile activity of mouse urinary bladder smooth muscle. <i>Journal of Physiology</i> , 2001, 537, 443-452.	2.9	134
17	Modulation of the molecular composition of large conductance, $Ca^{2+}$ activated $K^{+}$ channels in vascular smooth muscle during hypertension. <i>Journal of Clinical Investigation</i> , 2003, 112, 717-724.	8.2	124
18	Activators of protein kinase C decrease $Ca^{2+}$ spark frequency in smooth muscle cells from cerebral arteries. <i>American Journal of Physiology - Cell Physiology</i> , 1997, 273, C2090-C2095.	4.6	116

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19	Ontogeny of Local Sarcoplasmic Reticulum Ca <sup>2+</sup> Signals in Cerebral Arteries. <i>Circulation Research</i> , 1998, 83, 1104-1114.	4.5	103
20	Shiga Toxin 2 Affects the Central Nervous System through Receptor Globotriaosylceramide Localized to Neurons. <i>Journal of Infectious Diseases</i> , 2008, 198, 1398-1406.	4.0	103
21	Endothelial SK <sub>Ca</sub> and IK <sub>Ca</sub> Channels Regulate Brain Parenchymal Arteriolar Diameter and Cortical Cerebral Blood Flow. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2011, 31, 1175-1186.	4.3	101
22	Inversion of neurovascular coupling by subarachnoid blood depends on large-conductance Ca <sup>2+</sup> -activated K <sup>+</sup> (BK) channels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E1387-95.	7.1	97
23	Inward rectifier potassium (Kir2.1) channels as end-stage boosters of endothelium-dependent vasodilators. <i>Journal of Physiology</i> , 2016, 594, 3271-3285.	2.9	97
24	Intracellular calcium events activated by ATP in murine colonic myocytes. <i>American Journal of Physiology - Cell Physiology</i> , 2000, 279, C126-C135.	4.6	91
25	Ca <sup>2+</sup> Sparks and Their Function in Human Cerebral Arteries. <i>Stroke</i> , 2002, 33, 802-808.	2.0	90
26	Role of phospholamban in the modulation of arterial Ca <sup>2+</sup> sparks and Ca <sup>2+</sup> -activated K <sup>+</sup> channels by cAMP. <i>American Journal of Physiology - Cell Physiology</i> , 2001, 281, C1029-C1037.	4.6	89
27	Dynamic Inositol Trisphosphate-mediated Calcium Signals within Astrocytic Endfeet Underlie Vasodilation of Cerebral Arterioles. <i>Journal of General Physiology</i> , 2006, 128, 659-669.	1.9	88
28	Ca <sup>2+</sup> -activated K <sup>+</sup> Channels in Murine Endothelial Cells: Block by Intracellular Calcium and Magnesium. <i>Journal of General Physiology</i> , 2008, 131, 125-135.	1.9	83
29	Opposing Actions of Inositol 1,4,5-Trisphosphate and Ryanodine Receptors on Nuclear Factor of Activated T-cells Regulation in Smooth Muscle. <i>Journal of Biological Chemistry</i> , 2002, 277, 37756-37764.	3.4	81
30	Sympathetic nerve stimulation induces local endothelial Ca <sup>2+</sup> signals to oppose vasoconstriction of mouse mesenteric arteries. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012, 302, H594-H602.	3.2	80
31	Potassium channelopathy-like defect underlies early-stage cerebrovascular dysfunction in a genetic model of small vessel disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E796-805.	7.1	77
32	Low levels of K <sup>ATP</sup> channel activation decrease excitability and contractility of urinary bladder. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2001, 280, R1427-R1433.	1.8	69
33	Elementary purinergic Ca <sup>2+</sup> transients evoked by nerve stimulation in rat urinary bladder smooth muscle. <i>Journal of Physiology</i> , 2005, 564, 201-212.	2.9	56
34	Inositol trisphosphate receptor calcium release is required for cerebral artery smooth muscle cell proliferation. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006, 290, H240-H247.	3.2	43
35	Reduced Ca <sup>2+</sup> Spark Activity after Subarachnoid Hemorrhage Disables BK Channel Control of Cerebral Artery Tone. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2011, 31, 3-16.	4.3	40
36	The $\beta$ 1 subunit of the Ca <sup>2+</sup> -sensitive K <sup>+</sup> channel protects against hypertension. <i>Journal of Clinical Investigation</i> , 2004, 113, 955-957.	8.2	39

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37	Alkaline pH shifts Ca <sup>2+</sup> sparks to Ca <sup>2+</sup> waves in smooth muscle cells of pressurized cerebral arteries. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2002, 283, H2169-H2176.	3.2	37
38	Pressure-induced oxidative activation of PKG enables vasoregulation by Ca <sup>2+</sup> sparks and BK channels. <i>Science Signaling</i> , 2016, 9, ra100.	3.6	35
39	Adenosine signaling activates ATP-sensitive K <sup>+</sup> channels in endothelial cells and pericytes in CNS capillaries. <i>Science Signaling</i> , 2022, 15, eabl5405.	3.6	33
40	Oxidation of cysteine 117 stimulates constitutive activation of the type I $\beta$ cGMP-dependent protein kinase. <i>Journal of Biological Chemistry</i> , 2018, 293, 16791-16802.	3.4	30
41	Effect of endogenous and exogenous nitric oxide on calcium sparks as targets for vasodilation in rat cerebral artery. <i>Nitric Oxide - Biology and Chemistry</i> , 2007, 16, 104-109.	2.7	29
42	NS19504: A Novel BK Channel Activator with Relaxing Effect on Bladder Smooth Muscle Spontaneous Phasic Contractions. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2014, 350, 520-530.	2.5	29
43	Extracellular histones induce calcium signals in the endothelium of resistance-sized mesenteric arteries and cause loss of endothelium-dependent dilation. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019, 316, H1309-H1322.	3.2	29
44	Spontaneous electrical rhythmicity and the role of the sarcoplasmic reticulum in the excitability of guinea pig gallbladder smooth muscle cells. <i>American Journal of Physiology - Renal Physiology</i> , 2006, 290, G655-G664.	3.4	27
45	Ca <sup>2+</sup> Sparks and K <sub>Ca</sub> Channels: Novel Mechanisms to Relax Urinary Bladder Smooth Muscle. , 2003, 539, 347-357.		27
46	Inhibition of Ca <sup>++</sup> sparks by oxyhemoglobin in rabbit cerebral arteries. <i>Journal of Neurosurgery</i> , 2004, 100, 295-302.	1.6	23
47	Uncoupling of neurovascular communication after transient global cerebral ischemia is caused by impaired parenchymal smooth muscle K <sub>ir</sub> channel function. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2016, 36, 1195-1201.	4.3	22
48	Calcium waves in intact guinea pig gallbladder smooth muscle cells. <i>American Journal of Physiology - Renal Physiology</i> , 2006, 291, G717-G727.	3.4	21
49	Subarachnoid Blood Converts Neurally Evoked Vasodilation to Vasoconstriction in Rat Brain Cortex. , 2013, 115, 167-171.		21
50	Role of impaired endothelial cell Ca <sup>2+</sup> signaling in uteroplacental vascular dysfunction during diabetic rat pregnancy. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2013, 304, H935-H945.	3.2	15
51	Impairment of IK <sub>Ca</sub> channels contributes to uteroplacental endothelial dysfunction in rat diabetic pregnancy. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015, 309, H592-H604.	3.2	15
52	Inhibition of vascular smooth muscle inward-rectifier K <sup>+</sup> channels restores myogenic tone in mouse urinary bladder arterioles. <i>American Journal of Physiology - Renal Physiology</i> , 2017, 312, F836-F847.	2.7	13
53	The K <sub>V</sub> 7 channel activator retigabine suppresses mouse urinary bladder afferent nerve activity without affecting detrusor smooth muscle K <sup>+</sup> channel currents. <i>Journal of Physiology</i> , 2019, 597, 935-950.	2.9	13
54	Lack of direct effect of adiponectin on vascular smooth muscle cell BK <sub>Ca</sub> channels or Ca <sup>2+</sup> signaling in the regulation of small artery pressure-induced constriction. <i>Physiological Reports</i> , 2017, 5, e13337.	1.7	12

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55	Traumatic Brain Injury Impairs Systemic Vascular Function through Disruption of Inward-Rectifier Potassium Channels. <i>Function</i> , 2021, 2, .	2.3	9
56	A mechanism linking perinatal 2,3,7,8 tetrachlorodibenzo-p-dioxin exposure to lower urinary tract dysfunction in adulthood. <i>DMM Disease Models and Mechanisms</i> , 2021, 14, .	2.4	4
57	Elementary Ca <sup>2+</sup> signals through endothelial TRPV4 channels regulate vascular function. <i>BMC Pharmacology &amp; Toxicology</i> , 2013, 14, .	2.4	1
58	Functional evidence of TRPV4-mediated Ca <sup>2+</sup> signals in cortical astrocytes. <i>FASEB Journal</i> , 2011, 25, 1024.23.	0.5	1
59	Basal and ACh-stimulated intracellular Ca <sup>2+</sup> signals in intact endothelium originate from IP <sub>3</sub> -sensitive stores. <i>FASEB Journal</i> , 2007, 21, A861.	0.5	0
60	Ca <sup>2+</sup> pulsars: spatially restricted, IP <sub>3</sub> -mediated Ca <sup>2+</sup> release important for endothelial function. <i>FASEB Journal</i> , 2008, 22, 1181.18.	0.5	0
61	Nerve-induced smooth muscle to endothelium signaling in small resistance arteries. <i>FASEB Journal</i> , 2010, 24, 598.7.	0.5	0
62	High intravascular pressure decreases endothelial Ca <sup>2+</sup> pulsars and impairs endothelium-dependent vasodilation in mouse mesenteric arteries. <i>FASEB Journal</i> , 2010, 24, 956.6.	0.5	0
63	Elementary TRPV4 Ca <sup>2+</sup> events in intact vascular endothelium. <i>FASEB Journal</i> , 2011, 25, 1082.1.	0.5	0
64	Fundamental Change in Neurovascular Coupling after Subarachnoid Hemorrhage. <i>FASEB Journal</i> , 2011, 25, 1021.9.	0.5	0
65	Profound decrease in myogenic tone of parenchymal arterioles in a genetic model of cerebral ischemic small vessel disease. <i>FASEB Journal</i> , 2012, 26, 685.6.	0.5	0
66	Critical role of Kv channels in cerebrovascular dysfunction associated with ischemic small vessel disease in a mouse genetic model. <i>FASEB Journal</i> , 2013, 27, 925.7.	0.5	0
67	Experimental Diabetes Impairs Endothelial IKCa Channel Function in Uteroplacental Arteries from Pregnant Rats. <i>FASEB Journal</i> , 2013, 27, 687.8.	0.5	0