Rohit Ramchandra

List of Publications by Year
in descending order

61 papers	1,652 citations	331670 21 h-index	302126 39 g-index
62 all docs	62 docs citations	62 times ranked	1725 citing authors

#	Article	IF	Citations
1	Mathematical modelling of atrial and ventricular pressureâ€“volume dynamics and their change with heart rate. Mathematical Biosciences, 2022, 344, 108766.	1.9	2
2	Reverse re-modelling chronic heart failure by reinstating heart rate variability. Basic Research in Cardiology, 2022, 117, 4.	5.9	23
3	Aortic Body Chemoreceptors Regulate Coronary Blood Flow in Conscious Control and Hypertensive Sheep. Hypertension, 2022, 79, 1275-1285.	2.7	3
4	Role of the angiotensin type 1 receptor in modulating the carotid chemoreflex in an ovine model of renovascular hypertension. Journal of Hypertension, 2022, 40, 1421-1430.	0.5	2
5	Intracranial baroreflex is attenuated in an ovine model of renovascular hypertension. Scientific Reports, 2021, 11, 5816.	3.3	1
6	Activation of the carotid body increases directly recorded cardiac sympathetic nerve activity and coronary blood flow in conscious sheep. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2021, 320, R203-R212.	1.8	9
7	Regulation of Coronary Blood Flow by the Carotid Body Chemoreceptors in Ovine Heart Failure. Frontiers in Physiology, 2021, 12, 681135.	2.8	4
8	Angiotensin II and the Cardiac Parasympathetic Nervous System in Hypertension. International Journal of Molecular Sciences, 2021, 22, 12305.	4.1	15
9	Role of the Carotid Body in an Ovine Model of Renovascular Hypertension. Hypertension, 2020, 76, 1451-1460.	2.7	7
10	Formal Modeling and Verification of Rate Adaptive Pacemakers for Heart Failure. , 2020, , .		1
11	Intrathecal Administration of Losartan Reduces Directly Recorded Cardiac Sympathetic Nerve Activity in Ovine Heart Failure. Hypertension, 2019, 74, 896-902.	2.7	4
12	Neurohumoral interactions contributing to renal vasoconstriction and decreased renal blood flow in heart failure. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2019, 317, R386-R396.	1.8	14
13	Impaired Baroreflex Function in an Ovine Model of Chronic Heart Failure Induced by Multiple Coronary Microembolizations. Frontiers in Physiology, 2019, 10, 1420.	2.8	3
14	Direct Recording of Cardiac and Renal Sympathetic Nerve Activity Shows Differential Control in Renovascular Hypertension. Hypertension, 2018, 71, 1108-1116.	2.7	16
15	Mechanisms underlying the increased cardiac norepinephrine spillover in heart failure. American Journal of Physiology - Heart and Circulatory Physiology, 2018, 315, H340-H347.	3.2	15
16	Intracranial pressure influences the level of sympathetic tone. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2018, 315, R1049-R1053.	1.8	39
17	Cardiorespiratory interactions in humans and animals: rhythms for life. American Journal of Physiology - Heart and Circulatory Physiology, 2018, 315, H6-H17.	3.2	91
18	Increased cardiac sympathetic nerve activity in ovine heart failure is reduced by lesion of the area postrema, but not lamina terminalis. Basic Research in Cardiology, 2018, 113, 35.	5.9	50

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19	Evaluating the carotid bodies and renal nerves as therapeutic targets for hypertension. Autonomic Neuroscience: Basic and Clinical, 2017, 204, 126-130.	2.8	18
20	Role of endothelin-1 in mediating changes in cardiac sympathetic nerve activity in heart failure. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2016, 310, R94-R99.	1.8	17
21	A counterview of â€˜An investigation of the false discovery rate and the misinterpretation of p -valuesâ€™ by Colquhoun (2014). Royal Society Open Science, 2015, 2, 150217.	2.4	5
22	Regulation of the renal sympathetic nerves in heart failure. Frontiers in Physiology, 2015, 6, 238.	2.8	15
23	Reinnervation following catheterâ€based radioâ€frequency renal denervation. Experimental Physiology, 2015, 100, 485-490.	2.0	32
24	Reply to â€œLetter to the editor: Does low-frequency power of heart rate variability correlate with cardiac sympathetic tone in normal sheep?â€• American Journal of Physiology - Heart and Circulatory Physiology, 2015, 308, H148-H149.	3.2	1
25	Short-term effects of catheter-based renal denervation on cardiac sympathetic drive and cardiac baroreflex function in heart failure. International Journal of Cardiology, 2015, 190, 220-226.	1.7	20
26	Reinnervation of Renal Afferent and Efferent Nerves at 5.5 and 11 Months After Catheter-Based Radiofrequency Renal Denervation In Sheep. Hypertension, 2015, 65, 393-400.	2.7	140
27	Changes in Directly Recorded Sympathetic Nerve Activity and Noradrenaline Spillover to the Heart and Kidney during Heart Failure. FASEB Journal, 2015, 29, 652.1.	0.5	0
28	Lesion of the Area Postrema Reduces Cardiac Sympathoexcitation and Improves Cardiac Function in Heart Failure. FASEB Journal, 2015, 29, 652.23.	0.5	0
29	Central exogenous nitric oxide decreases cardiac sympathetic drive and improves baroreflex control of heart rate in ovine heart failure. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2014, 307, R271-R280.	1.8	15
30	Intracarotid hypertonic sodium chloride differentially modulates sympathetic nerve activity to the heart and kidney. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2014, 306, R567-R575.	1.8	23
31	Tonic arterial chemoreceptor activity contributes to cardiac sympathetic activation in mild ovine heart failure. Experimental Physiology, 2014, 99, 1031-1041.	2.0	19
32	The low frequency power of heart rate variability is neither a measure of cardiac sympathetic tone nor of baroreflex sensitivity. American Journal of Physiology - Heart and Circulatory Physiology, 2014, 307, H1005-H1012.	3.2	78
33	Role of prostaglandins in determining the increased cardiac sympathetic nerve activity in ovine sepsis. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2014, 307, R75-R81.	1.8	8
34	Effects of Renal Denervation on Regional Hemodynamics and Kidney Function in Experimental Hyperdynamic Sepsis. Critical Care Medicine, 2014, 42, e401-e409.	0.9	21
35	Organ Selective Regulation of Sympathetic Outflow by the Brain Angiotensin System. Current Hypertension Reports, 2013, 15, 401-408.	3.5	8
36	Cardiac sympathoexcitation in heart failure. Autonomic Neuroscience: Basic and Clinical, 2013, 175, 76-84.	2.8	20

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37	The role of the paraventricular nucleus of the hypothalamus in the regulation of cardiac and renal sympathetic nerve activity in conscious normal and heart failure sheep. Journal of Physiology, 2013, 591, 93-107.	2.9	50
38	Central Angiotensin Type 1 Receptor Blockade Decreases Cardiac But Not Renal Sympathetic Nerve Activity in Heart Failure. Hypertension, 2012, 59, 634-641.	2.7	38
39	Novel targets for sepsisâ€induced kidney injury: the glomerular arterioles and the sympathetic nervous system. Experimental Physiology, 2012, 97, 1168-1177.	2.0	24
40	Cardiovascular effects of Î²-blockade in a sheep model of severe sepsis. Critical Care, 2011, 15, .	5.8	1
41	Hypertonic sodium resuscitation after hemorrhage improves hemodynamic function by stimulating cardiac, but not renal, sympathetic nerve activity. American Journal of Physiology - Heart and Circulatory Physiology, 2011, 300, H685-H692.	3.2	26
42	Specific control of sympathetic nerve activity to the mammalian heart and kidney. Experimental Physiology, 2010, 95, 34-40.	2.0	48
43	Response of cardiac sympathetic nerve activity to intravenous irbesartan in heart failure. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2010, 298, R1056-R1060.	1.8	10
44	Early and Sustained Systemic and Renal Hemodynamic Effects of Intravenous Radiocontrast. Blood Purification, 2010, 29, 339-346.	1.8	3
45	Basis for the preferential activation of cardiac sympathetic nerve activity in heart failure. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 924-928.	7.1	84
46	Hypothalamic paraventricular nucleus mediates sodium-induced changes in cardiovascular and renal function in conscious sheep. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2009, 297, R185-R193.	1.8	18
47	Discharge properties of cardiac and renal sympathetic nerves and their impaired responses to changes in blood volume in heart failure. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2009, 297, R665-R674.	1.8	42
48	Septic shock induces distinct changes in sympathetic nerve activity to the heart and kidney in conscious sheep. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2009, 297, R1247-R1253.	1.8	61
49	Responses of cardiac sympathetic nerve activity to changes in circulating volume differ in normal and heart failure sheep. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2008, 295, R719-R726.	1.8	27
50	Role of renal sympathetic nerve activity in hypertension induced by chronic nitric oxide inhibition. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2007, 292, R1479-R1485.	1.8	12
51	Increased cardiac sympathetic nerve activity in heart failure is not due to desensitization of the arterial baroreflex. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 293, H798-H804.	3.2	64
52	Renal sympathetic nerve activity in the development of hypertension. Current Hypertension Reports, 2006, 8, 242-248.	3.5	16
53	Evidence of differential control of renal and lumbar sympathetic nerve activity in conscious rabbits. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2006, 290, R701-R708.	1.8	49
54	Baroreflex mechanisms regulating mean level of SNA differ from those regulating the timing and entrainment of the sympathetic discharges in rabbits. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2006, 291, R400-R409.	1.8	18

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55	NITRIC OXIDE and SYMPATHETIC NERVE ACTIVITY IN THE CONTROL OF BLOOD PRESSURE. Clinical and Experimental Pharmacology and Physiology, 2005, 32, 440-446.	1.9	42
56	Baroreceptor Denervation Prevents Sympathoinhibition During Angiotensin Iiâ€“Induced Hypertension. Hypertension, 2005, 46, 168-172.	2.7	67
57	What Sets the Long-Term Level of Renal Sympathetic Nerve Activity. Circulation Research, 2003, 92, 1330-1336.	4.5	156
58	Role of Angiotensin II in the Neural Control of Renal Function. Hypertension, 2003, 41, 583-591.	2.7	17
59	Chronic Blockade of Nitric Oxide Does Not Produce Hypertension in Baroreceptor Denervated Rabbits. Hypertension, 2003, 42, 974-977.	2.7	15
60	Is the chronically denervated kidney supersensitive to catecholamines?. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2002, 282, R603-R610.	1.8	15
61	Neural control of the renal vasculature in angiotensin II-induced hypertension. Clinical and Experimental Pharmacology and Physiology, 2002, 29, 867-872.	1.9	9