

# Roland N Pittman

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/9013401/roland-n-pittman-publications-by-year.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

44  
papers

417  
citations

12  
h-index

20  
g-index

47  
ext. papers

464  
ext. citations

2.1  
avg, IF

4.07  
L-index

#	Paper	IF	Citations
44	Effect of Hypoxic Blood Infusion on Pulmonary Physiology.. <i>Frontiers in Physiology</i> , <b>2022</b> , 13, 842510	4.6	
43	August Krogh's theory of muscle microvascular control and oxygen delivery: a paradigm shift based on new data. <i>Journal of Physiology</i> , <b>2020</b> , 598, 4473-4507	3.9	16
42	Changes in the PO <sub>2</sub> -dependence of oxygen consumption in the skeletal muscle of developing rats. <i>FASEB Journal</i> , <b>2018</b> , 32, 578.7	0.9	
41	Oxygen dependence of respiration in rat spinotrapezius muscle contracting at 0.5-8 twitches per second. <i>Journal of Applied Physiology</i> , <b>2018</b> , 125, 124-133	3.7	3
40	Simultaneous sampling of tissue oxygenation and oxygen consumption in skeletal muscle. <i>Microvascular Research</i> , <b>2016</b> , 105, 15-22	3.7	16
39	Barometric calibration of a luminescent oxygen probe. <i>Journal of Applied Physiology</i> , <b>2016</b> , 120, 809-16	3.7	6
38	Effects of a hemoglobin-based oxygen carrier (HBOC-201) and derivatives with altered oxygen affinity and viscosity on systemic and microcirculatory variables in a top-load rat model. <i>Microvascular Research</i> , <b>2014</b> , 95, 124-30	3.7	18
37	Effects of non-leukocyte-reduced and leukocyte-reduced packed red blood cell transfusions on oxygenation of rat spinotrapezius muscle. <i>Microvascular Research</i> , <b>2014</b> , 91, 30-6	3.7	
36	Oxygen transport in the microcirculation and its regulation. <i>Microcirculation</i> , <b>2013</b> , 20, 117-37	2.9	63
35	Bang-bang model for regulation of local blood flow. <i>Microcirculation</i> , <b>2013</b> , 20, 455-83	2.9	25
34	The effects of brief ischemia and reperfusion on interstitial PO <sub>2</sub> in the rat spinotrapezius muscle. <i>FASEB Journal</i> , <b>2013</b> , 27, 898.18	0.9	
33	Effect of SNAP-generated NO on PO <sub>2</sub> and VO <sub>2</sub> in contracting skeletal muscle. <i>FASEB Journal</i> , <b>2013</b> , 27, 898.17	0.9	
32	Oxygen dependence of respiratory rate (VO <sub>2</sub> ) in rat spinotrapezius muscle in situ measured with phosphorescence quenching microscopy (PQM). <i>FASEB Journal</i> , <b>2012</b> , 26, 860.3	0.9	
31	Elevated haematocrit - when too much of a good thing wreaks havoc on the endothelial surface layer. <i>Journal of Physiology</i> , <b>2011</b> , 589, 5339	3.9	
30	Systemic Clearance of Fluorescent Dextrans after Hemorrhage in Rats. <i>FASEB Journal</i> , <b>2010</b> , 24, 975.13	0.9	
29	Determining the dose-dependent effects of long-chain soluble polymers in rat spinotrapezius muscle. <i>FASEB Journal</i> , <b>2010</b> , 24, lb555	0.9	
28	EFFECT OF TOP-LOADING A HEMOGLOBIN-BASED OXYGEN CARRIER (HBOC) ON MEAN ARTERIAL PRESSURE (MAP), ARTERIOLAR DIAMETER AND TISSUE OXYGENATION. <i>FASEB Journal</i> , <b>2010</b> , 24, 973.10 <sup>0.9</sup>		

27	Elucidating the sources of enhanced oxygen consumption during early reperfusion following skeletal muscle ischemia in the rat spinotrapezius muscle. <i>FASEB Journal</i> , <b>2010</b> , 24, 973.11	0.9	
26	Measurement of oxygen in the microcirculation using phosphorescence quenching microscopy. <i>Advances in Experimental Medicine and Biology</i> , <b>2010</b> , 662, 157-62	3.6	9
25	Reduction in endothelial glycocalyx thickness after hemorrhage. <i>FASEB Journal</i> , <b>2009</b> , 23, 950.8	0.9	1
24	TISSUE OXYGENATION AND OXYGEN CONSUMPTION FOLLOWING HEMORRHAGE AND RESUSCITATION USING A HEMOGLOBIN-BASED OXYGEN CARRIER AND HUMAN SERUM ALBUMIN. <i>FASEB Journal</i> , <b>2009</b> , 23, 948.6	0.9	
23	Response of NO levels in the rat spinotrapezius muscle following systemic hemorrhage. <i>FASEB Journal</i> , <b>2009</b> , 23, 948.13	0.9	
22	Effects of hemoglobin-based oxygen carriers (HBOCs) on nitric oxide (NO) levels in the spinotrapezius muscle and mesentery of the rat. <i>FASEB Journal</i> , <b>2009</b> , 23, 766.5	0.9	
21	Longitudinal and radial gradients of PO <sub>2</sub> in the hamster cheek pouch microcirculation. <i>Microcirculation</i> , <b>2008</b> , 15, 215-24	2.9	19
20	Nitric oxide release from nitric oxide synthase on erythrocytes during hemorrhagic shock. <i>FASEB Journal</i> , <b>2008</b> , 22, 749.7	0.9	
19	Calibration of a fluorescent membrane for use in mapping microvascular nitric oxide (NO) gradients. <i>FASEB Journal</i> , <b>2008</b> , 22, 927.2	0.9	
18	EFFECTS OF ISOVOLEMIC HEMODILUTION ON TISSUE OXYGEN CONSUMPTION USING A HEMOGLOBIN-BASED OXYGEN CARRIER AND HUMAN SERUM ALBUMIN. <i>FASEB Journal</i> , <b>2008</b> , 22, 1141.24	0.9	
17	Nitric Oxide Delivered By Intraerythrocytic SNOHb To Vascular Smooth Muscle: A Theoretical Analysis. <i>FASEB Journal</i> , <b>2007</b> , 21, A1231	0.9	
16	Measurement of Microvascular Oxygen Saturation (mSO <sub>2</sub> ) and hemoglobin concentration (m[Hb]) during Prolonged Hemorrhagic Shock (HS). <i>FASEB Journal</i> , <b>2007</b> , 21, A1235	0.9	
15	Microvascular Blood Flow and Oxygenation in the Rat Mesentery during Hemorrhagic Hypotension (HH). <i>FASEB Journal</i> , <b>2007</b> , 21, A1235	0.9	
14	Erythrocyte-associated transients (EATs) in capillary PO <sub>2</sub> : an isovolemic hemodilution study in the rat spinotrapezius muscle. <i>FASEB Journal</i> , <b>2007</b> , 21, A482	0.9	
13	PO <sub>2</sub> Distribution in the Microvasculature of the Rat Mesentery. <i>FASEB Journal</i> , <b>2007</b> , 21, A481	0.9	
12	Normal PO <sub>2</sub> Gradients and VO <sub>2</sub> in the Rat Mesentery. <i>FASEB Journal</i> , <b>2007</b> , 21, A481	0.9	
11	Phosphorescence quenching microscope with laser pulse excitation and scanning mirror. <i>FASEB Journal</i> , <b>2007</b> , 21, A492	0.9	
10	Microvascular hemoglobin oxygen saturation (SO <sub>2</sub> ) during prolonged hemorrhagic hypotension (HH). <i>FASEB Journal</i> , <b>2006</b> , 20, A1150	0.9	2

9	Simultaneous measurements of hemoglobin oxygen saturation (SO <sub>2</sub> ) and oxygen partial pressure (PO <sub>2</sub> ). <i>FASEB Journal</i> , <b>2006</b> , 20, A698	0.9	
8	Measurement of NO using microscopic imaging of DAF-2T fluorescence. <i>FASEB Journal</i> , <b>2006</b> , 20, A698	0.9	
7	Oxygen transport and exchange in the microcirculation. <i>Microcirculation</i> , <b>2005</b> , 12, 59-70	2.9	65
6	Effect of hemoglobin solutions as hemodiluents on capillary oxygen tension. <i>Advances in Experimental Medicine and Biology</i> , <b>2003</b> , 510, 83-8	3.6	4
5	Analysis of Phosphorescence Decay in Heterogeneous Systems: Consequences of Finite Excitation Flash Duration. <i>Photochemistry and Photobiology</i> , <b>1999</b> , 69, 624-632	3.6	13
4	Determination of red blood cell velocity by video shuttering and image analysis. <i>Annals of Biomedical Engineering</i> , <b>1999</b> , 27, 313-25	4.7	25
3	Influence of microvascular architecture on oxygen exchange in skeletal muscle. <i>Microcirculation</i> , <b>1995</b> , 2, 1-18	2.9	77
2	Role of Microvessels in Oxygen Supply to Tissue. <i>Physiology</i> , <b>1994</b> , 9, 119-123	9.8	18
1	In vivo photometric analysis of hemoglobin. <i>Annals of Biomedical Engineering</i> , <b>1986</b> , 14, 119-37	4.7	36