

Roland N Pittman

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.

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 | Influence of microvascular architecture on oxygen exchange in skeletal muscle. <i>Microcirculation</i> , 1995 , 2, 1-18 | 2.9 | 77 |
| 43 | Oxygen transport and exchange in the microcirculation. <i>Microcirculation</i> , 2005 , 12, 59-70 | 2.9 | 65 |
| 42 | Oxygen transport in the microcirculation and its regulation. <i>Microcirculation</i> , 2013 , 20, 117-37 | 2.9 | 63 |
| 41 | In vivo photometric analysis of hemoglobin. <i>Annals of Biomedical Engineering</i> , 1986 , 14, 119-37 | 4.7 | 36 |
| 40 | Bang-bang model for regulation of local blood flow. <i>Microcirculation</i> , 2013 , 20, 455-83 | 2.9 | 25 |
| 39 | Determination of red blood cell velocity by video shuttering and image analysis. <i>Annals of Biomedical Engineering</i> , 1999 , 27, 313-25 | 4.7 | 25 |
| 38 | Longitudinal and radial gradients of PO ₂ in the hamster cheek pouch microcirculation. <i>Microcirculation</i> , 2008 , 15, 215-24 | 2.9 | 19 |
| 37 | 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> , 2014 , 95, 124-30 | 3.7 | 18 |
| 36 | Role of Microvessels in Oxygen Supply to Tissue. <i>Physiology</i> , 1994 , 9, 119-123 | 9.8 | 18 |
| 35 | Simultaneous sampling of tissue oxygenation and oxygen consumption in skeletal muscle. <i>Microvascular Research</i> , 2016 , 105, 15-22 | 3.7 | 16 |
| 34 | August Krogh's theory of muscle microvascular control and oxygen delivery: a paradigm shift based on new data. <i>Journal of Physiology</i> , 2020 , 598, 4473-4507 | 3.9 | 16 |
| 33 | Analysis of Phosphorescence Decay in Heterogeneous Systems: Consequences of Finite Excitation Flash Duration. <i>Photochemistry and Photobiology</i> , 1999 , 69, 624-632 | 3.6 | 13 |
| 32 | Measurement of oxygen in the microcirculation using phosphorescence quenching microscopy. <i>Advances in Experimental Medicine and Biology</i> , 2010 , 662, 157-62 | 3.6 | 9 |
| 31 | Barometric calibration of a luminescent oxygen probe. <i>Journal of Applied Physiology</i> , 2016 , 120, 809-16 | 3.7 | 6 |
| 30 | Effect of hemoglobin solutions as hemodiluents on capillary oxygen tension. <i>Advances in Experimental Medicine and Biology</i> , 2003 , 510, 83-8 | 3.6 | 4 |
| 29 | Oxygen dependence of respiration in rat spinotrapezius muscle contracting at 0.5-8 twitches per second. <i>Journal of Applied Physiology</i> , 2018 , 125, 124-133 | 3.7 | 3 |
| 28 | Microvascular hemoglobin oxygen saturation (SO ₂) during prolonged hemorrhagic hypotension (HH). <i>FASEB Journal</i> , 2006 , 20, A1150 | 0.9 | 2 |

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|----|--|-----|---|
| 27 | Reduction in endothelial glycocalyx thickness after hemorrhage. <i>FASEB Journal</i> , 2009 , 23, 950.8 | 0.9 | 1 |
| 26 | Effects of non-leukocyte-reduced and leukocyte-reduced packed red blood cell transfusions on oxygenation of rat spinotrapezius muscle. <i>Microvascular Research</i> , 2014 , 91, 30-6 | 3.7 | |
| 25 | Elevated haematocrit - when too much of a good thing wreaks havoc on the endothelial surface layer. <i>Journal of Physiology</i> , 2011 , 589, 5339 | 3.9 | |
| 24 | Simultaneous measurements of hemoglobin oxygen saturation (SO ₂) and oxygen partial pressure (PO ₂). <i>FASEB Journal</i> , 2006 , 20, A698 | 0.9 | |
| 23 | Measurement of NO using microscopic imaging of DAF-2T fluorescence. <i>FASEB Journal</i> , 2006 , 20, A698 | 0.9 | |
| 22 | Nitric Oxide Delivered By Intraerythrocytic SNOHb To Vascular Smooth Muscle: A Theoretical Analysis. <i>FASEB Journal</i> , 2007 , 21, A1231 | 0.9 | |
| 21 | Measurement of Microvascular Oxygen Saturation (mSO ₂) and hemoglobin concentration (m[Hb]) during Prolonged Hemorrhagic Shock (HS). <i>FASEB Journal</i> , 2007 , 21, A1235 | 0.9 | |
| 20 | Microvascular Blood Flow and Oxygenation in the Rat Mesentery during Hemorrhagic Hypotension (HH). <i>FASEB Journal</i> , 2007 , 21, A1235 | 0.9 | |
| 19 | Erythrocyte-associated transients (EATs) in capillary PO ₂ : an isovolemic hemodilution study in the rat spinotrapezius muscle. <i>FASEB Journal</i> , 2007 , 21, A482 | 0.9 | |
| 18 | PO ₂ Distribution in the Microvasculature of the Rat Mesentery. <i>FASEB Journal</i> , 2007 , 21, A481 | 0.9 | |
| 17 | Normal PO ₂ Gradients and VO ₂ in the Rat Mesentery. <i>FASEB Journal</i> , 2007 , 21, A481 | 0.9 | |
| 16 | Phosphorescence quenching microscope with laser pulse excitation and scanning mirror. <i>FASEB Journal</i> , 2007 , 21, A492 | 0.9 | |
| 15 | Nitric oxide release from nitric oxide synthase on erythrocytes during hemorrhagic shock. <i>FASEB Journal</i> , 2008 , 22, 749.7 | 0.9 | |
| 14 | Calibration of a fluorescent membrane for use in mapping microvascular nitric oxide (NO) gradients. <i>FASEB Journal</i> , 2008 , 22, 927.2 | 0.9 | |
| 13 | EFFECTS OF ISOVOLEMIC HEMODILUTION ON TISSUE OXYGEN CONSUMPTION USING A HEMOGLOBIN-BASED OXYGEN CARRIER AND HUMAN SERUM ALBUMIN. <i>FASEB Journal</i> , 2008 , 22, 1141.24 | 0.9 | |
| 12 | Changes in the PO ₂ -dependence of oxygen consumption in the skeletal muscle of developing rats. <i>FASEB Journal</i> , 2018 , 32, 578.7 | 0.9 | |
| 11 | TISSUE OXYGENATION AND OXYGEN CONSUMPTION FOLLOWING HEMORRHAGE AND RESUSCITATION USING A HEMOGLOBIN-BASED OXYGEN CARRIER AND HUMAN SERUM ALBUMIN. <i>FASEB Journal</i> , 2009 , 23, 948.6 | 0.9 | |
| 10 | Response of NO levels in the rat spinotrapezius muscle following systemic hemorrhage. <i>FASEB Journal</i> , 2009 , 23, 948.13 | 0.9 | |

- 9 Effects of hemoglobin-based oxygen carriers (HBOCs) on nitric oxide (NO) levels in the spinotrapezius muscle and mesentery of the rat. *FASEB Journal*, **2009**, 23, 766.5 0.9
- 8 Systemic Clearance of Fluorescent Dextran after Hemorrhage in Rats. *FASEB Journal*, **2010**, 24, 975.13 0.9
- 7 Determining the dose-dependent effects of long-chain soluble polymers in rat spinotrapezius muscle. *FASEB Journal*, **2010**, 24, lb555 0.9
- 6 EFFECT OF TOP-LOADING A HEMOGLOBIN-BASED OXYGEN CARRIER (HBOC) ON MEAN ARTERIAL PRESSURE (MAP), ARTERIOLAR DIAMETER AND TISSUE OXYGENATION. *FASEB Journal*, **2010**, 24, 973.10^{0.9}
- 5 Elucidating the sources of enhanced oxygen consumption during early reperfusion following skeletal muscle ischemia in the rat spinotrapezius muscle. *FASEB Journal*, **2010**, 24, 973.11 0.9
- 4 Oxygen dependence of respiratory rate (VO₂) in rat spinotrapezius muscle in situ measured with phosphorescence quenching microscopy (PQM). *FASEB Journal*, **2012**, 26, 860.3 0.9
- 3 The effects of brief ischemia and reperfusion on interstitial PO₂ in the rat spinotrapezius muscle. *FASEB Journal*, **2013**, 27, 898.18 0.9
- 2 Effect of SNAP-generated NO on PO₂ and VO₂ in contracting skeletal muscle. *FASEB Journal*, **2013**, 27, 898.17 0.9
- 1 Effect of Hypoxic Blood Infusion on Pulmonary Physiology.. *Frontiers in Physiology*, **2022**, 13, 842510 4.6