David C Poole

List of Publications by Year in Descending Order

367 papers	13,590 citations	62 h-index	105 g-index
401 ext. papers	14,912 ext. citations	3.1 avg, IF	6.61 L-index

#	Paper	IF	Citations
367	Effects of pulmonary hypertension on microcirculatory hemodynamics in rat skeletal muscle.. *Microvascular Research*, **2022**, 141, 104334	3.7	0
366	'Fit for surgery': The relationship between cardiorespiratory fitness and postoperative outcomes.. *Experimental Physiology*, **2022**,	2.4	2
365	Post-occlusive reactive hyperemia and skeletal muscle capillary hemodynamics. *Microvascular Research*, **2021**, 140, 104283	3.7	1
364	Capillary hemodynamics and contracting skeletal muscle oxygen pressures in male rats with heart failure: Impact of soluble guanylyl cyclase activator. *Nitric Oxide - Biology and Chemistry*, **2021**, 119, 1-1	5	
363	Spatial matching of microvascular oxygen delivery to demand in skeletal muscle: Has the missing link been found?. *Journal of Physiology*, **2021**, 599, 2127-2128	3.9	0
362	Regulation of capillary hemodynamics by K channels in resting skeletal muscle. *Physiological Reports*, **2021**, 9, e14803	2.6	1
361	Type I diabetes suppresses intracellular calcium ion increase normally evoked by heat stress in rat skeletal muscle. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2021**, 320, R384-R392	3.2	0
360	Angiotensin converting enzyme inhibition improves cerebrovascular control during exercise in male rats with heart failure. *Respiratory Physiology and Neurobiology*, **2021**, 286, 103613	2.8	3
359	Multimodality assessment of heart failure with preserved ejection fraction skeletal muscle reveals differences in the machinery of energy fuel metabolism. *ESC Heart Failure*, **2021**, 8, 2698-2712	3.7	6
358	Vascular permeability of skeletal muscle microvessels in rat arterial ligation model: in vivo analysis using two-photon laser scanning microscopy. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2021**, 320, R972-R983	3.2	1
357	Authors' Reply to Ibai Garcâ-Tabar and Esteban M. Gorostiaga: Comment on "Relative Proximity of Critical Power and Metabolic/Ventilatory Thresholds: Systematic Review and Meta-Analysis". *Sports Medicine*, **2021**, 51, 2015-2016	10.6	
356	Sexual dimorphism in vascular ATP-sensitive K channel function supporting interstitial via convective and/or diffusive O transport. *Journal of Physiology*, **2021**, 599, 3279-3293	3.9	1
355	In vivo cooling-induced intracellular Ca elevation and tension in rat skeletal muscle. *Physiological Reports*, **2021**, 9, e14921	2.6	1
354	The role of vascular function on exercise capacity in health and disease. *Journal of Physiology*, **2021**, 599, 889-910	3.9	20
353	August Krogh: Muscle capillary function and oxygen delivery. *Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology*, **2021**, 253, 110852	2.6	11
352	In vivo Ca dynamics during cooling after eccentric contractions in rat skeletal muscle. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2021**, 320, R129-R137	3.2	0
351	Authors' Reply to Keir et al.: Comment on "Relative Proximity of Critical Power and Metabolic/Ventilatory Thresholds: Systematic Review and Meta-Analysis". *Sports Medicine*, **2021**, 51, 369-370	10.6	2

350	The anaerobic threshold: 50+ years of controversy. *Journal of Physiology*, **2021**, 599, 737-767	3.9	53
349	Reply from David Poole, Harry Rossiter, George Brooks and L. Bruce Gladden. *Journal of Physiology*, **2021**, 599, 1715-1716	3.9	
348	Reply from George A. Brooks, Harry B. Rossiter, David C. Poole and L. Bruce Gladden. *Journal of Physiology*, **2021**, 599, 1711-1712	3.9	
347	Impact of supine versus upright exercise on muscle deoxygenation heterogeneity during ramp incremental cycling is site specific. *European Journal of Applied Physiology*, **2021**, 121, 1283-1296	3.4	8
346	Dissociation between exercise intensity thresholds: mechanistic insights from supine exercise. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2021**, 321, R712-R722	2.2	1
345	The effects of pulmonary hypertension on skeletal muscle oxygen pressures in contracting rat spinotrapezius muscle. *Experimental Physiology*, **2021**, 106, 2070-2082	2.4	1
344	Prolonged mechanical ventilation increases diaphragm arteriole circumferential stretch without changes in stress/stretch: Implications for the pathogenesis of ventilator-induced diaphragm dysfunction. *Microcirculation*, **2021**, 28, e12727	2.9	0
343	Exercise training decreases intercostal and transversus abdominis muscle blood flows in heart failure rats during submaximal exercise. *Respiratory Physiology and Neurobiology*, **2021**, 292, 103710	2.8	2
342	Does wearing a facemask decrease arterial blood oxygenation and impair exercise tolerance?. *Respiratory Physiology and Neurobiology*, **2021**, 294, 103765	2.8	2
341	Oxygen flux from capillary to mitochondria: integration of contemporary discoveries.. *European Journal of Applied Physiology*, **2021**, 122, 7	3.4	4
340	Guidelines for animal exercise and training protocols for cardiovascular studies. *American Journal of Physiology - Heart and Circulatory Physiology*, **2020**, 318, H1100-H1138	5.2	27
339	Peripheral Determinants of Oxygen Utilization in Heart Failure With Preserved Ejection Fraction: Central Role of Adiposity. *JACC Basic To Translational Science*, **2020**, 5, 211-225	8.7	12
338	Relative Proximity of Critical Power and Metabolic/Ventilatory Thresholds: Systematic Review and Meta-Analysis. *Sports Medicine*, **2020**, 50, 1771-1783	10.6	30
337	Sex differences in mitochondrial Ca handling in mouse fast-twitch skeletal muscle in vivo. *Journal of Applied Physiology*, **2020**, 128, 241-251	3.7	5
336	Reply to Letter to the Editor: Perfusion controls muscle glucose uptake by altering the rate of glucose dispersion in vivo. *American Journal of Physiology - Endocrinology and Metabolism*, **2020**, 318, E313-E317	6	1
335	Effect of differential muscle activation patterns on muscle deoxygenation and microvascular haemoglobin regulation. *Experimental Physiology*, **2020**, 105, 531-541	2.4	6
334	Systemic NOS inhibition reduces contracting muscle oxygenation more in intact female than male rats. *Nitric Oxide - Biology and Chemistry*, **2020**, 100-101, 38-44	5	0
333	Transcapillary PO gradients in contracting muscles across the fibre type and oxidative continuum. *Journal of Physiology*, **2020**, 598, 3187-3202	3.9	8

332	The Effects of Prolonged Mechanical Ventilation on Structural and Material Properties of Diaphragm Arterioles. *FASEB Journal*, **2020**, 34, 1-1	0.9	
331	Influence Of Priming Exercise On Muscle Deoxygenation Kinetics During Upright And Supine Cycle Exercise. *Medicine and Science in Sports and Exercise*, **2020**, 52, 207-208	1.2	
330	Effects of Intrathoracic Pressure changes on Diaphragmatic Blood Flow during Mechanical Ventilation. *FASEB Journal*, **2020**, 34, 1-1	0.9	
329	Skeletal Muscle Capillary Hemodynamics in Rats with Heart Failure with Preserved Ejection Fraction. *FASEB Journal*, **2020**, 34, 1-1	0.9	
328	Fiber-Type Effects of KATP Channel Inhibition via Glibenclamide on the Recovery of Interstitial PO2 Following Muscle Contractions in Rats. *FASEB Journal*, **2020**, 34, 1-1	0.9	
327	ATP-sensitive K + Channel Inhibition Diminishes Critical Speed in Male and Female Rats but V O 2 max in Females Only. *FASEB Journal*, **2020**, 34, 1-1	0.9	
326	Vascular ATP-sensitive K+ (KATP) Channels: Sex and Fiber-type Differences in the Support of Contracting Muscle Blood Flow and Interstitial PO2. *FASEB Journal*, **2020**, 34, 1-1	0.9	
325	Influence Of Body Position On Pulmonary Oxygen Uptake And Muscle Deoxygenation Kinetics During Cycle Exercise. *Medicine and Science in Sports and Exercise*, **2020**, 52, 207-207	1.2	
324	Impact Of Cell-free Hemoglobin On Exercising Muscle Vascular Control In Rats. *Medicine and Science in Sports and Exercise*, **2020**, 52, 222-222	1.2	
323	Contrasting Patterns Of Respiratory And Locomotor Muscle Deoxygenation And Total Hemoglobin During Incremental Ramp Cycling. *Medicine and Science in Sports and Exercise*, **2020**, 52, 208-208	1.2	
322	ATP-sensitive K channel inhibition in rats decreases kidney and skeletal muscle blood flow without increasing sympathetic nerve discharge. *Respiratory Physiology and Neurobiology*, **2020**, 278, 103444	2.8	3
321	Type II diabetes accentuates diaphragm blood flow increases during submaximal exercise in the rat. *Respiratory Physiology and Neurobiology*, **2020**, 281, 103518	2.8	2
320	Effect of priming exercise and body position on pulmonary oxygen uptake and muscle deoxygenation kinetics during cycle exercise. *Journal of Applied Physiology*, **2020**, 129, 810-822	3.7	2
319	Impact of supine exercise on muscle deoxygenation kinetics heterogeneity: mechanistic insights into slow pulmonary oxygen uptake dynamics. *Journal of Applied Physiology*, **2020**, 129, 535-546	3.7	8
318	Effects of elevated positive end-expiratory pressure on diaphragmatic blood flow and vascular resistance during mechanical ventilation. *Journal of Applied Physiology*, **2020**, 129, 626-635	3.7	4
317	Vascular ATP-sensitive K channels support maximal aerobic capacity and critical speed via convective and diffusive O transport. *Journal of Physiology*, **2020**, 598, 4843-4858	3.9	4
316	August Krogh's theory of muscle microvascular control and oxygen delivery: a paradigm shift based on new data. *Journal of Physiology*, **2020**, 598, 4473-4507	3.9	16
315	Exercise intensity and middle cerebral artery dynamics in humans. *Respiratory Physiology and Neurobiology*, **2019**, 262, 32-39	2.8	8

314	The maximal metabolic steady state: redefining the 'gold standard'. *Physiological Reports*, **2019**, 7, e14092	2.6	92
313	Impaired diaphragm resistance vessel vasodilation with prolonged mechanical ventilation. *Journal of Applied Physiology*, **2019**, 127, 423-431	3.7	3
312	Edward F. Adolph Distinguished Lecture. Contemporary model of muscle microcirculation: gateway to function and dysfunction. *Journal of Applied Physiology*, **2019**, 127, 1012-1033	3.7	16
311	Unaltered V o kinetics despite greater muscle oxygenation during heavy-intensity two-legged knee extension versus cycle exercise in humans. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2019**, 317, R203-R213	3.2	11
310	Intercostal muscle blood flow is elevated in old rats during submaximal exercise. *Respiratory Physiology and Neurobiology*, **2019**, 263, 26-30	2.8	5
309	Sexual dimorphism in the control of skeletal muscle interstitial Po of heart failure rats: effects of dietary nitrate supplementation. *Journal of Applied Physiology*, **2019**, 126, 1184-1192	3.7	11
308	Commentaries on Viewpoint: Managing the power grid: How myoglobin can regulate Po and energy distribution in skeletal muscle. *Journal of Applied Physiology*, **2019**, 126, 791-794	3.7	1
307	Skeletal muscle interstitial O pressures: bridging the gap between the capillary and myocyte. *Microcirculation*, **2019**, 26, e12497	2.9	20
306	Skeletal muscle interstitial Po kinetics during recovery from contractions. *Journal of Applied Physiology*, **2019**, 127, 930-939	3.7	4
305	Regional differences in Ca entry along the proximal-middle-distal muscle axis during eccentric contractions in rat skeletal muscle. *Journal of Applied Physiology*, **2019**, 127, 828-837	3.7	4
304	Exercise intolerance in patients with mitochondrial myopathies: perfusive and diffusive limitations in the O2 pathway. *Current Opinion in Physiology*, **2019**, 10, 202-209	2.6	5
303	Central and peripheral factors mechanistically linked to exercise intolerance in heart failure with reduced ejection fraction. *American Journal of Physiology - Heart and Circulatory Physiology*, **2019**, 317, H434-H444	5.2	19
302	ATP-sensitive K+ Channel Inhibition via Glibenclamide Impairs Maximal Aerobic Capacity and Critical Speed of Healthy Rats without Compromising Cardiac Function. *FASEB Journal*, **2019**, 33, 536.10	0.9	
301	The Effects of Prolonged Mechanical Ventilation on Diaphragm Arteriolar Response to Alpha-Adrenergic Agonists. *FASEB Journal*, **2019**, 33, 541.11	0.9	
300	Accumulation of intramyocyte TRPV1-mediated calcium during heat stress is inhibited by concomitant muscle contractions. *Journal of Applied Physiology*, **2019**, 126, 691-698	3.7	8
299	Exercise Intensity and Middle Cerebral Artery Dynamics in Humans. *Medicine and Science in Sports and Exercise*, **2019**, 51, 132-133	1.2	
298	Response to considerations regarding Maximal Lactate Steady State determination before redefining the gold-standard. *Physiological Reports*, **2019**, 7, e14292	2.6	10
297	Critical Power **2019**, 159-181		8

296	Neuronal nitric oxide synthase regulation of skeletal muscle functional hyperemia: exercise training and moderate compensated heart failure. *Nitric Oxide - Biology and Chemistry*, **2018**, 74, 1-9	5	9
295	Skeletal muscle microvascular and interstitial PO2 from rest to contractions. *Journal of Physiology*, **2018**, 596, 869-883	3.9	30
294	Exercise limitations in heart failure with reduced and preserved ejection fraction. *Journal of Applied Physiology*, **2018**, 124, 208-224	3.7	42
293	Dietary nitrate supplementation opposes the elevated diaphragm blood flow in chronic heart failure during submaximal exercise. *Respiratory Physiology and Neurobiology*, **2018**, 247, 140-145	2.8	9
292	Muscle hypertrophy following blood flow-restricted, low-force isometric electrical stimulation in rat tibialis anterior: role for muscle hypoxia. *Journal of Applied Physiology*, **2018**, 125, 134-145	3.7	11
291	Sex and nitric oxide bioavailability interact to modulate interstitial Po in healthy rat skeletal muscle. *Journal of Applied Physiology*, **2018**, 124, 1558-1566	3.7	9
290	Commentaries on Viewpoint: V o is an acceptable estimate of cardiorespiratory fitness but not V o. *Journal of Applied Physiology*, **2018**, 125, 233-240	3.7	9
289	Effect of healthy aging and sex on middle cerebral artery blood velocity dynamics during moderate-intensity exercise. *American Journal of Physiology - Heart and Circulatory Physiology*, **2018** , 315, H492-H501	5.2	22
288	Microvascular permeability of skeletal muscle after eccentric contraction-induced muscle injury: in vivo imaging using two-photon laser scanning microscopy. *Journal of Applied Physiology*, **2018**, 125, 369-380	3.7	7
287	Mitochondrial calcium regulation during and following contractions in skeletal muscle. *The Journal of Physical Fitness and Sports Medicine*, **2018**, 7, 205-211	0.5	1
286	Central Cardiac Determinants of the Speed-duration Relationship in Heart Failure Rats. *FASEB Journal*, **2018**, 32, 853.15	0.9	
285	Interstitial PO2 Dynamics During Contractions in Healthy Skeletal Muscle: Relationship to Oxidative Capacity and Nitric Oxide Bioavailability. *FASEB Journal*, **2018**, 32, 704.6	0.9	
284	Do Contrasting Recruitment Patterns Underlie The Different Patterns Of Muscle Deoxygenation And Hemoglobin Response In Quadriceps Muscles?. *Medicine and Science in Sports and Exercise*, **2018**, 50, 507-508	1.2	
283	Regulation of Capillary Hemodynamics by KATP Channels in Resting Skeletal Muscle. *FASEB Journal* , **2018**, 32, 581.8	0.9	2
282	Effects Of Lactate Administration On Intracellular pH And Contractile Performance During Rhythmic Muscle Contractions. *Medicine and Science in Sports and Exercise*, **2018**, 50, 560	1.2	
281	Type I Diabetes Suppresses Intracellular Calcium Ion Influx by Heat Stress in Rat Skeletal Muscle. *Medicine and Science in Sports and Exercise*, **2018**, 50, 199	1.2	
280	Measurement of the maximum oxygen uptake V o: V o is no longer acceptable. *Journal of Applied Physiology*, **2017**, 122, 997-1002	3.7	235
279	Vascular K channels mitigate severe muscle O delivery-utilization mismatch during contractions in chronic heart failure rats. *Respiratory Physiology and Neurobiology*, **2017**, 238, 33-40	2.8	9

278	Data inconsistencies and inaccuracies combined with methodological problems render physiological interpretation suspect. *European Journal of Applied Physiology*, **2017**, 117, 1055-1056	3.4	1
277	Improved skeletal muscle Ca regulation in vivo following contractions in mice overexpressing PGC-1*American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2017**, 312, R1017-R1028	3.2	20
276	Effect of sodium nitrite on local control of contracting skeletal muscle microvascular oxygen pressure in healthy rats. *Journal of Applied Physiology*, **2017**, 122, 153-160	3.7	11
275	Effect of chronic heart failure in older rats on respiratory muscle and hindlimb blood flow during submaximal exercise. *Respiratory Physiology and Neurobiology*, **2017**, 243, 20-26	2.8	21
274	The effects of RSR13 on microvascular Po kinetics and muscle contractile performance in the rat arterial ligation model of peripheral arterial disease. *Journal of Applied Physiology*, **2017**, 123, 764-772	3.7	2
273	Reply to Drs. Van Breda et al. *Journal of Applied Physiology*, **2017**, 122, 1371-1372	3.7	2
272	Respiratory muscle blood flow during exercise: Effects of sex and ovarian cycle. *Journal of Applied Physiology*, **2017**, 122, 918-924	3.7	14
271	Dynamics of middle cerebral artery blood flow velocity during moderate-intensity exercise. *Journal of Applied Physiology*, **2017**, 122, 1125-1133	3.7	23
270	Pharmacokinetics and Pharmacodynamics of Inorganic Nitrate in Heart Failure With Preserved Ejection Fraction. *Circulation Research*, **2017**, 120, 1151-1161	15.7	43
269	Reply to Pettitt and Jamnick's letter in reference to: Measurement of the maximum oxygen uptake V o: V o is no longer acceptable. *Journal of Applied Physiology*, **2017**, 123, 697	3.7	1
268	Reply to Cooper's letter in reference to: Measurement of the maximum oxygen uptake V o: V o is no longer acceptable. *Journal of Applied Physiology*, **2017**, 123, 499	3.7	0
267	Near-infrared spectroscopy of superficial and deep rectus femoris reveals markedly different exercise response to superficial vastus lateralis. *Physiological Reports*, **2017**, 5, e13402	2.6	22
266	Escaping Virgil's underworld: dissociating Aeneas's task from his toil. *Journal of Physiology*, **2017**, 595, 6591-6592	3.9	
265	The effect of dietary nitrate supplementation on the spatial heterogeneity of quadriceps deoxygenation during heavy-intensity cycling. *Physiological Reports*, **2017**, 5, e13340	2.6	7
264	High Intensity Interval Training (HIT) Increases Muscle Deoxygenation During Ramp Incremental Exercise.. *Medicine and Science in Sports and Exercise*, **2017**, 49, 636	1.2	
263	In vivo Ca dynamics induced by Ca injection in individual rat skeletal muscle fibers. *Physiological Reports*, **2017**, 5, e13180	2.6	4
262	Prostate cancer reduces endurance exercise capacity in association with reductions in cardiac and skeletal muscle mass in the rat. *American Journal of Cancer Research*, **2017**, 7, 2566-2576	4.4	7
261	In Vivo Intracellular Ca2+ Dynamics Over 7 Days Following Eccentric Contractions In Rat Skeletal Muscle. *Medicine and Science in Sports and Exercise*, **2017**, 49, 802-803	1.2	

260	Dietary nitrate supplementation: impact on skeletal muscle vascular control in exercising rats with chronic heart failure. *Journal of Applied Physiology*, **2016**, 121, 661-9	3.7	26
259	Greater V̇O2peak is correlated with greater skeletal muscle deoxygenation amplitude and hemoglobin concentration within individual muscles during ramp-incremental cycle exercise. *Physiological Reports*, **2016**, 4, e13065	2.6	34
258	Howard H. Erickson: contributions to equine exercise physiology and veterinary medicine. *Comparative Exercise Physiology*, **2016**, 12, 55-62	0.7	
257	Modulation of rat skeletal muscle microvascular O2 pressure via KATP channel inhibition following the onset of contractions. *Respiratory Physiology and Neurobiology*, **2016**, 222, 48-54	2.8	6
256	Financial Concerns About Participation in Clinical Trials Among Patients With Cancer. *Journal of Clinical Oncology*, **2016**, 34, 479-87	2.2	25
255	Effects of erythropoietin on systemic hematocrit and oxygen transport in the splenectomized horse. *Respiratory Physiology and Neurobiology*, **2016**, 225, 38-47	2.8	4
254	Randomized Trial of a Web-Based Intervention to Address Barriers to Clinical Trials. *Journal of Clinical Oncology*, **2016**, 34, 469-78	2.2	48
253	Skeletal Muscle Vascular Control During Exercise: Impact of Nitrite Infusion During Nitric Oxide Synthase Inhibition in Healthy Rats. *Journal of Cardiovascular Pharmacology and Therapeutics*, **2016**, 21, 201-8	2.6	19
252	pH Homeostasis in Contracting and Recovering Skeletal Muscle: Integrated Function of the Microcirculation with the Interstitium and Intramyocyte Milieu. *Current Topics in Medicinal Chemistry*, **2016**, 16, 2656-63	3	5
251	Exercise-induced pulmonary hemorrhage: where are we now?. *Veterinary Medicine: Research and Reports*, **2016**, 7, 133-148	2.3	4
250	Training Increases Muscle O□Diffusing Capacity Intrinsic to the Elevated V̇O2max. *Medicine and Science in Sports and Exercise*, **2016**, 48, 762-3	1.2	1
249	Fiber Type-Specific Effects of Dietary Nitrate. *Exercise and Sport Sciences Reviews*, **2016**, 44, 53-60	6.7	80
248	No Muscle Is an Island: Integrative Perspectives on Muscle Fatigue. *Medicine and Science in Sports and Exercise*, **2016**, 48, 2281-2293	1.2	14
247	Critical Power: An Important Fatigue Threshold in Exercise Physiology. *Medicine and Science in Sports and Exercise*, **2016**, 48, 2320-2334	1.2	220
246	pH buffering of single rat skeletal muscle fibers in the in vivo environment. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2016**, 310, R926-33	3.2	3
245	Acute inhibition of ATP-sensitive K+ channels impairs skeletal muscle vascular control in rats during treadmill exercise. *American Journal of Physiology - Heart and Circulatory Physiology*, **2015**, 308, H1434-42	5.2	11
244	Validation of a high-power, time-resolved, near-infrared spectroscopy system for measurement of superficial and deep muscle deoxygenation during exercise. *Journal of Applied Physiology*, **2015**, 118, 1435-42	3.7	43
243	The critical power framework provides novel insights into fatigue mechanisms. *Exercise and Sport Sciences Reviews*, **2015**, 43, 65-6	6.7	5

242	Control of muscle exercise hyperaemia: are the mechanisms found in transition?. *Experimental Physiology*, **2015**, 100, 373-4	2.4	1
241	Blood flow restriction prevents muscle damage but not protein synthesis signaling following eccentric contractions. *Physiological Reports*, **2015**, 3, e12449	2.6	21
240	In vivo Ca2+ buffering capacity and microvascular oxygen pressures following muscle contractions in diabetic rat skeletal muscles: fiber-type specific effects. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2015**, 309, R128-37	3.2	16
239	Reduction of V O2 slow component by priming exercise: novel mechanistic insights from time-resolved near-infrared spectroscopy. *Physiological Reports*, **2015**, 3, e12432	2.6	15
238	Commentaries on Viewpoint: Can elite athletes benefit from dietary nitrate supplementation?. *Journal of Applied Physiology*, **2015**, 119, 762-9	3.7	13
237	Microvascular oxygen pressures in muscles comprised of different fiber types: Impact of dietary nitrate supplementation. *Nitric Oxide - Biology and Chemistry*, **2015**, 48, 38-43	5	73
236	Effects of increased skin blood flow on muscle oxygenation/deoxygenation: comparison of time-resolved and continuous-wave near-infrared spectroscopy signals. *European Journal of Applied Physiology*, **2015**, 115, 335-43	3.4	31
235	Effects of nitrite infusion on skeletal muscle vascular control during exercise in rats with chronic heart failure. *American Journal of Physiology - Heart and Circulatory Physiology*, **2015**, 309, H1354-60	5.2	16
234	Heterogeneity of Muscle Blood Flow and Metabolism: Influence of Exercise, Aging, and Disease States. *Exercise and Sport Sciences Reviews*, **2015**, 43, 117-24	6.7	52
233	Effect of inorganic nitrate on exercise capacity in heart failure with preserved ejection fraction. *Circulation*, **2015**, 131, 371-80; discussion 380	16.7	203
232	Muscle deoxygenation in the quadriceps during ramp incremental cycling: Deep vs. superficial heterogeneity. *Journal of Applied Physiology*, **2015**, 119, 1313-9	3.7	51
231	Microvascular oxygen partial pressure during hyperbaric oxygen in diabetic rat skeletal muscle. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2015**, 309, R1512-20	3.2	1
230	Exercise training in chronic heart failure: improving skeletal muscle O2 transport and utilization. *American Journal of Physiology - Heart and Circulatory Physiology*, **2015**, 309, H1419-39	5.2	98
229	Exercise training as therapy for heart failure: current status and future directions. *Circulation: Heart Failure*, **2015**, 8, 209-20	7.6	101
228	Sympathetic Neural Contributions to Vascular Control: Role of KATP Channels. *FASEB Journal*, **2015** , 29, 793.6	0.9	
227	Chronic heart failure and nitrate supplementation: Impact on skeletal muscle vascular control in exercising rats. *FASEB Journal*, **2015**, 29, 1055.25	0.9	
226	The effects of dietary fish oil on exercising skeletal muscle vascular and metabolic control in chronic heart failure rats. *Applied Physiology, Nutrition and Metabolism*, **2014**, 39, 299-307	3	5
225	In vivo calcium regulation in diabetic skeletal muscle. *Cell Calcium*, **2014**, 56, 381-9	4	20

224	Skeletal muscle microvascular oxygenation dynamics in heart failure: exercise training and nitric oxide-mediated function. *American Journal of Physiology - Heart and Circulatory Physiology*, **2014**, 306, H690-8	5.2	27
223	Dose dependent effects of nitrate supplementation on cardiovascular control and microvascular oxygenation dynamics in healthy rats. *Nitric Oxide - Biology and Chemistry*, **2014**, 39, 51-8	5	20
222	Application of best practice approaches for designing decision support tools: the preparatory education about clinical trials (PRE-ACT) study. *Patient Education and Counseling*, **2014**, 96, 63-71	3.1	24
221	The effects of PGC-1□on control of microvascular P(O2) kinetics following onset of muscle contractions. *Journal of Applied Physiology*, **2014**, 117, 163-70	3.7	9
220	Discussion: "The efficacy of the self-paced V O2max test to measure maximal oxygen uptake in treadmill running". *Applied Physiology, Nutrition and Metabolism*, **2014**, 39, 586-8	3	8
219	Heart and vessels: Function during exercise and training adaptations **2014**, 667-694		3
218	CrossTalk opposing view: De novo capillary recruitment in healthy muscle is not necessary to explain physiological outcomes. *Journal of Physiology*, **2014**, 592, 5133-5	3.9	11
217	Knowledge, attitudes, and self-efficacy as predictors of preparedness for oncology clinical trials: a mediational model. *Medical Decision Making*, **2014**, 34, 454-63	2.5	13
216	Dynamic heterogeneity of exercising muscle blood flow and O2 utilization. *Medicine and Science in Sports and Exercise*, **2014**, 46, 860-76	1.2	102
215	Rebuttal from David C. Poole. *Journal of Physiology*, **2014**, 592, 5139	3.9	1
214	Effects of Pentoxifylline on Exercising Skeletal Muscle Vascular Control in Rats with Chronic Heart Failure **2014**, 2, 32-44		2
213	Impact of nitrate supplementation via beetroot juice on capillary hemodynamics in skeletal muscle of rats in chronic heart failure (1106.16). *FASEB Journal*, **2014**, 28, 1106.16	0.9	3
212	Effects of nitrate supplementation via beetroot juice on contracting rat skeletal muscle microvascular oxygen pressure dynamics. *Respiratory Physiology and Neurobiology*, **2013**, 187, 250-5	2.8	49
211	Skeletal muscle capillary function: contemporary observations and novel hypotheses. *Experimental Physiology*, **2013**, 98, 1645-58	2.4	95
210	Neuronal nitric oxide synthase inhibition and regional sympathetic nerve discharge: implications for peripheral vascular control. *Respiratory Physiology and Neurobiology*, **2013**, 186, 285-9	2.8	8
209	Impact of dietary nitrate supplementation via beetroot juice on exercising muscle vascular control in rats. *Journal of Physiology*, **2013**, 591, 547-57	3.9	203
208	The NO donor sodium nitroprusside: evaluation of skeletal muscle vascular and metabolic dysfunction. *Microvascular Research*, **2013**, 85, 104-11	3.7	17
207	A single test for the determination of parameters of the speed-time relationship for running. *Respiratory Physiology and Neurobiology*, **2013**, 185, 380-5	2.8	37

206	(-)-Epicatechin administration and exercising skeletal muscle vascular control and microvascular oxygenation in healthy rats. *American Journal of Physiology - Heart and Circulatory Physiology*, **2013**, 304, H206-14	5.2	6
205	In vivo imaging of intracellular Ca2+ after muscle contractions and direct Ca2+ injection in rat skeletal muscle in diabetes. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2013**, 305, R610-8	3.2	22
204	Muscle fibre-type dependence of neuronal nitric oxide synthase-mediated vascular control in the rat during high speed treadmill running. *Journal of Physiology*, **2013**, 591, 2885-96	3.9	35
203	Maximal oxygen uptake validation in children with expiratory flow limitation. *Pediatric Exercise Science*, **2013**, 25, 84-100	2	14
202	Randomized trial of a web-based intervention to address barriers to clinical trials.. *Journal of Clinical Oncology*, **2013**, 31, 6500-6500	2.2	8
201	Neuronal nitric oxide synthase (nNOS) inhibition and regional sympathetic nerve discharge: implications for peripheral vascular control. *FASEB Journal*, **2013**, 27, 901.15	0.9	
200	Plasticity of microvascular oxygenation control in rat fast-twitch muscle: effects of experimental creatine depletion. *Respiratory Physiology and Neurobiology*, **2012**, 181, 14-20	2.8	
199	Effects of chronic heart failure on neuronal nitric oxide synthase-mediated control of microvascular O2 pressure in contracting rat skeletal muscle. *Journal of Physiology*, **2012**, 590, 3585-96	3.9	12
198	Exercise training and muscle microvascular oxygenation: functional role of nitric oxide. *Journal of Applied Physiology*, **2012**, 113, 557-65	3.7	33
197	Oxygen uptake kinetics. *Comprehensive Physiology*, **2012**, 2, 933-96	7.7	265
196	Acute ascorbic acid and hindlimb skeletal muscle blood flow distribution in old rats: rest and exercise. *Canadian Journal of Physiology and Pharmacology*, **2012**, 90, 1498-505	2.4	3
195	Mechanisms of exercise-induced muscle damage and fatigue: Intracellular calcium accumulation. *The Journal of Physical Fitness and Sports Medicine*, **2012**, 1, 505-512	0.5	3
194	Effects of neuronal nitric oxide synthase inhibition on microvascular and contractile function in skeletal muscle of aged rats. *American Journal of Physiology - Heart and Circulatory Physiology*, **2012** , 303, H1076-84	5.2	8
193	Muscle oxygen transport and utilization in heart failure: implications for exercise (in)tolerance. *American Journal of Physiology - Heart and Circulatory Physiology*, **2012**, 302, H1050-63	5.2	197
192	Kinetics of muscle deoxygenation and microvascular PO(2) during contractions in rat: comparison of optical spectroscopy and phosphorescence-quenching techniques. *Journal of Applied Physiology*, **2012**, 112, 26-32	3.7	51
191	Exercise training and muscle microvascular oxygenation: role of nitric oxide bioavailability. *FASEB Journal*, **2012**, 26, 860.18	0.9	
190	The Fast Skeletal Troponin Activator, CK-2017357, Improves Resistance to Fatigue in Healthy, Conscious Rats. *FASEB Journal*, **2012**, 26, 1121.7	0.9	
189	Chronic heart failure (CHF) alters nNOS-mediated control of skeletal muscle contractile function. *FASEB Journal*, **2012**, 26, 860.19	0.9	

188	Acute effects of hydrogen peroxide on skeletal muscle microvascular oxygenation from rest to contractions. *Journal of Applied Physiology*, **2011**, 110, 1290-8	3.7	12
187	Aging alters the contribution of nitric oxide to regional muscle hemodynamic control at rest and during exercise in rats. *Journal of Applied Physiology*, **2011**, 111, 989-98	3.7	24
186	Highly athletic terrestrial mammals: horses and dogs. *Comprehensive Physiology*, **2011**, 1, 1-37	7.7	50
185	Role of neuronal nitric oxide synthase in modulating microvascular and contractile function in rat skeletal muscle. *Microcirculation*, **2011**, 18, 501-11	2.9	20
184	Dynamics of muscle microcirculatory and blood-myocyte O(2) flux during contractions. *Acta Physiologica*, **2011**, 202, 293-310	5.6	73
183	Oxygen's double-edged sword: balancing muscle O2 supply and use during exercise. *Journal of Physiology*, **2011**, 589, 457-8	3.9	2
182	Progressive arteriolar vasoconstriction and fatigue during tetanic contractions of rat skeletal muscle are inhibited by □-receptor blockade. *Journal of Physiological Sciences*, **2011**, 61, 181-9	2.3	2
181	Treatment with a corticotrophin releasing factor 2 receptor agonist modulates skeletal muscle mass and force production in aged and chronically ill animals. *BMC Musculoskeletal Disorders*, **2011**, 12, 15	2.8	3
180	Eccentric exercise-induced muscle damage dissociates the lactate and gas exchange thresholds. *Journal of Sports Sciences*, **2011**, 29, 181-9	3.6	14
179	Slow component of VO2 kinetics: mechanistic bases and practical applications. *Medicine and Science in Sports and Exercise*, **2011**, 43, 2046-62	1.2	191
178	Muscle fiber recruitment and the slow component of O2 uptake: constant work rate vs. all-out sprint exercise. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2011**, 300, R700-7	3.2	121
177	Acute antioxidant supplementation and skeletal muscle vascular conductance in aged rats: role of exercise and fiber type. *American Journal of Physiology - Heart and Circulatory Physiology*, **2011**, 300, H1536-44	5.2	4
176	Methodological validation of the dynamic heterogeneity of muscle deoxygenation within the quadriceps during cycle exercise. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2011**, 301, R534-41	3.2	70
175	Control of microvascular PO□kinetics following onset of muscle contractions: role for AMPK. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2011**, 301, R1350-7	3.2	12
174	Nitric oxide bioavailability modulates the dynamics of microvascular oxygen exchange during recovery from contractions. *Acta Physiologica*, **2010**, 200, 159-69	5.6	14
173	Effects of neuronal nitric oxide synthase inhibition on resting and exercising hindlimb muscle blood flow in the rat. *Journal of Physiology*, **2010**, 588, 1321-31	3.9	30
172	Critical speed in the rat: implications for hindlimb muscle blood flow distribution and fibre recruitment. *Journal of Physiology*, **2010**, 588, 5077-87	3.9	75
171	Mechanistic insights into how advanced age moves the site of (.)VO2 kinetics limitation upstream. *Journal of Applied Physiology*, **2010**, 108, 5-6	3.7	17

170	Effects of high altitude and exercise on plasma erythropoietin in equids. *Comparative Exercise Physiology*, **2010**, 7, 193-199	0.7	6
169	Letter to Editor: Lamprecht et al. Inflammatory responses to three modes of intense exercise in Standardbred mares a pilot study. *Comparative Exercise Physiology*, **2010**, 7, 149-150	0.7	1
168	Nitric oxide synthase inhibition during treadmill exercise reveals fiber-type specific vascular control in the rat hindlimb. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2010**, 298, R478-85	3.2	17
167	Progressive chronic heart failure slows the recovery of microvascular O2 pressures after contractions in the rat spinotrapezius muscle. *American Journal of Physiology - Heart and Circulatory Physiology*, **2010**, 299, H1755-61	5.2	27
166	Sex differences in intracellular Ca(2+) accumulation following eccentric contractions of rat skeletal muscle in vivo. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2010**, 299, R1006-12	3.2	17
165	Muscle microcirculatory O(2) exchange in health and disease. *Advances in Experimental Medicine and Biology*, **2010**, 662, 301-7	3.6	11
164	Critical power: implications for determination of V̇O2max and exercise tolerance. *Medicine and Science in Sports and Exercise*, **2010**, 42, 1876-90	1.2	327
163	Effects of type II diabetes on exercising skeletal muscle blood flow in the rat. *Journal of Applied Physiology*, **2010**, 109, 1347-53	3.7	28
162	Abnormal Pulmonary Oxygen Uptake and Skeletal Muscle Deoxygenation Kinetics are not Obligatory Features of the Type II Diabetic Condition. *Medicine and Science in Sports and Exercise*, **2010**, 42, 136	1.2	
161	The Effects of Ascorbic Acid Supplementation on Muscle Blood Flow in Aged Rats. *Medicine and Science in Sports and Exercise*, **2010**, 42, 124-125	1.2	
160	Arteriolar vasomotor control and contractile performance during fatiguing tetanic contractions in rat skeletal muscle: role of sympathetic system. *Advances in Experimental Medicine and Biology*, **2010**, 662, 309-15	3.6	1
159	Effects of prior heavy exercise on heterogeneity of muscle deoxygenation kinetics during subsequent heavy exercise. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2009**, 297, R615-21	3.2	36
158	Recovery dynamics of skeletal muscle oxygen uptake during the exercise off-transient. *Respiratory Physiology and Neurobiology*, **2009**, 168, 254-60	2.8	12
157	Aging impacts microvascular oxygen pressures during recovery from contractions in rat skeletal muscle. *Respiratory Physiology and Neurobiology*, **2009**, 169, 315-22	2.8	20
156	The Effectiveness of Immunotherapy in Treating Exercise-Induced Pulmonary Hemorrhage. *Journal of Equine Veterinary Science*, **2009**, 29, 527-532	1.2	7
155	Resolving the determinants of high-intensity exercise performance. *Experimental Physiology*, **2009**, 94, 197-8	2.4	10
154	The effects of antioxidants on microvascular oxygenation and blood flow in skeletal muscle of young rats. *Experimental Physiology*, **2009**, 94, 961-71	2.4	20
153	The effects of aging on capillary hemodynamics in contracting rat spinotrapezius muscle. *Microvascular Research*, **2009**, 77, 113-9	3.7	38

152	Reproducibility of endurance capacity and VO2peak in male Sprague-Dawley rats. *Journal of Applied Physiology*, **2009**, 106, 1072-8	3.7	40
151	Reply to Quaresima and Ferrari. *Journal of Applied Physiology*, **2009**, 107, 372-373	3.7	27
150	Skeletal Muscle Oxygen Uptake Dynamics during the Exercise Off-Transient. *FASEB Journal*, **2009**, 23, 608.11	0.9	
149	Nitric Oxide (NO) Bioavailability Underlies Muscle Microvascular O2 Delivery/Utilization Imbalance in Chronic Heart Failure (CHF) Rats. *FASEB Journal*, **2009**, 23, 948.12	0.9	
148	Acute Antioxidant (AOX) Treatment Increases Muscle Microvascular O2 Extraction in Young Rats. *FASEB Journal*, **2009**, 23, 948.3	0.9	
147	Muscle microvascular hemoglobin concentration and oxygenation within the contraction-relaxation cycle. *Respiratory Physiology and Neurobiology*, **2008**, 160, 131-8	2.8	21
146	Maximal force is unaffected by emphysema-induced atrophy in extensor digitorium longus. *Respiratory Physiology and Neurobiology*, **2008**, 161, 119-24	2.8	6
145	Effect of eccentric exercise-induced muscle damage on the dynamics of muscle oxygenation and pulmonary oxygen uptake. *Journal of Applied Physiology*, **2008**, 105, 1413-21	3.7	57
144	Last word on Point:Counterpoint: There is/is not capillary recruitment in active skeletal muscle during exercise. *Journal of Applied Physiology*, **2008**, 104, 901	3.7	4
143	Muscle metabolic responses to exercise above and below the "critical power" assessed using 31P-MRS. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2008**, 294, R585-93	3.2	308
142	Effects of conjugated oestrogens and aminocaproic acid upon exercise-induced pulmonary haemorrhage (EIPH). *Comparative Exercise Physiology*, **2008**, 5, 95	0.7	8
141	Intracellular calcium accumulation following eccentric contractions in rat skeletal muscle in vivo: role of stretch-activated channels. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2008**, 294, R1329-37	3.2	57
140	Control of oxygen uptake during exercise. *Medicine and Science in Sports and Exercise*, **2008**, 40, 462-74	1.2	148
139	Effects of antioxidants on contracting spinotrapezius muscle microvascular oxygenation and blood flow in aged rats. *Journal of Applied Physiology*, **2008**, 105, 1889-96	3.7	20
138	Comments on point: counterpoint: exercise training does/does not induce vascular adaptations beyond the active muscle beds. *Journal of Applied Physiology*, **2008**, 105, 1008-10	3.7	
137	Counterpoint: There is not capillary recruitment in active skeletal muscle during exercise. *Journal of Applied Physiology*, **2008**, 104, 891-3; discussion 893-4	3.7	30
136	Validity of criteria for establishing maximal O2 uptake during ramp exercise tests. *European Journal of Applied Physiology*, **2008**, 102, 403-10	3.4	282
135	Solving the Fick principle using whole body measurements does not discriminate "central" and "peripheral" adaptations to training. *European Journal of Applied Physiology*, **2008**, 103, 117-9	3.4	5

134	Errors of fact and logic impair discrimination of □central□ and □peripheral□ adaptations to training. *European Journal of Applied Physiology*, **2008**, 103, 737-738	3.4	1
133	Prevention of Emphysema-Induced Reductions in Diaphragm Muscle Mass. *FASEB Journal*, **2008**, 22, 962.12	0.9	
132	Effects of dietary fish oil (FO) supplementation on the skeletal muscle blood flow (BF) response to submaximal treadmill exercise. *FASEB Journal*, **2008**, 22, 1235.10	0.9	
131	Effects of Antioxidants on Contracting Spinotrapezius Muscle Force Production and Oxygen Consumption in Aged (26□30 Month Old) Rats. *FASEB Journal*, **2008**, 22, 1141.1	0.9	
130	The Effects of Aging on Microcirculatory Oxygen Delivery (QO2) in Contracting Rat Spinotrapezius Muscle. *FASEB Journal*, **2008**, 22, 1141.2	0.9	
129	Aging potentiates the effect of congestive heart failure on muscle microvascular oxygenation. *Journal of Applied Physiology*, **2007**, 103, 1757-63	3.7	33
128	Oxygen exchange in muscle of young and old rats: muscle-vascular-pulmonary coupling. *Experimental Physiology*, **2007**, 92, 341-6	2.4	27
127	Control of microvascular oxygen pressures during recovery in rat fast-twitch muscle of differing oxidative capacity. *Experimental Physiology*, **2007**, 92, 731-8	2.4	5
126	The final frontier: oxygen flux into muscle at exercise onset. *Exercise and Sport Sciences Reviews*, **2007**, 35, 166-73	6.7	42
125	Spatial heterogeneity of quadriceps muscle deoxygenation kinetics during cycle exercise. *Journal of Applied Physiology*, **2007**, 103, 2049-56	3.7	139
124	Downhill treadmill running trains the rat spinotrapezius muscle. *Journal of Applied Physiology*, **2007**, 102, 412-6	3.7	13
123	Effects of Type II diabetes on muscle microvascular oxygen pressures. *Respiratory Physiology and Neurobiology*, **2007**, 156, 187-95	2.8	66
122	Effects of Type II diabetes on capillary hemodynamics in skeletal muscle. *American Journal of Physiology - Heart and Circulatory Physiology*, **2006**, 291, H2439-44	5.2	107
121	Initial experience of the use of photodynamic therapy (PDT) in recurrent malignant and pre-malignant lesions of the vulva. *Photodiagnosis and Photodynamic Therapy*, **2006**, 3, 156-61	3.5	5
120	Blood flow and O2 extraction as a function of O2 uptake in muscles composed of different fiber types. *Respiratory Physiology and Neurobiology*, **2006**, 153, 237-49	2.8	73
119	Effects of arterial hypotension on microvascular oxygen exchange in contracting skeletal muscle. *Journal of Applied Physiology*, **2006**, 100, 1019-26	3.7	24
118	Effects of altered nitric oxide availability on rat muscle microvascular oxygenation during contractions. *Acta Physiologica*, **2006**, 186, 223-32	5.6	34
117	Muscle microvascular oxygenation in chronic heart failure: role of nitric oxide availability. *Acta Physiologica*, **2006**, 188, 3-13	5.6	42

116	Human critical power-oxygen uptake relationship at different pedalling frequencies. *Experimental Physiology*, **2006**, 91, 621-32	2.4	70
115	Temporal profile of rat skeletal muscle capillary haemodynamics during recovery from contractions. *Journal of Physiology*, **2006**, 573, 787-97	3.9	28
114	Nitric oxide and muscle VO2 kinetics. *Journal of Physiology*, **2006**, 573, 565-6; author reply 567-8	3.9	5
113	Capillary hemodynamics and oxygen pressures in the aging microcirculation. *Microcirculation*, **2006**, 13, 289-99	2.9	20
112	Effects of nitric oxide on skeletal muscle microvascular O2 pressure of rats with heart failure. *FASEB Journal*, **2006**, 20, A283	0.9	
111	Effects of eccentric exercise on microcirculation and microvascular oxygen pressures in rat spinotrapezius muscle. *Journal of Applied Physiology*, **2005**, 99, 1516-22	3.7	58
110	Effects of aging on microvascular oxygen pressures in rat skeletal muscle. *Respiratory Physiology and Neurobiology*, **2005**, 146, 259-68	2.8	81
109	Muscle blood flow-O2 uptake interaction and their relation to on-exercise dynamics of O2 exchange. *Respiratory Physiology and Neurobiology*, **2005**, 147, 91-103	2.8	55
108	Oxygen uptake dynamics: from muscle to mouth--an introduction to the symposium. *Medicine and Science in Sports and Exercise*, **2005**, 37, 1542-50	1.2	75
107	Dynamics of muscle microcirculatory oxygen exchange. *Medicine and Science in Sports and Exercise*, **2005**, 37, 1559-66	1.2	20
106	Abusing the fick principle. *Medicine and Science in Sports and Exercise*, **2005**, 37, 702	1.2	1
105	Control of microvascular oxygen pressures in rat muscles comprised of different fibre types. *Journal of Physiology*, **2005**, 563, 903-13	3.9	170
104	Impact of aging on muscle blood flow in chronic heart failure. *Journal of Applied Physiology*, **2005**, 99, 505-14	3.7	17
103	Comparison of oxygen uptake kinetics during knee extension and cycle exercise. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2005**, 288, R212-20	3.2	92
102	Oxygen uptake (VO2) kinetics in different species: a brief review. *Equine and Comparative Exercise Physiology*, **2005**, 2, 1-15		4
101	Effects Of Type II Diabetes On Capillary Hemodynamics In Skeletal Muscle. *Medicine and Science in Sports and Exercise*, **2005**, 37, S359	1.2	1
100	Recovery of microvascular PO2 during the exercise off-transient in muscles of different fiber type. *Journal of Applied Physiology*, **2004**, 96, 1039-44	3.7	25
99	Altered regional blood flow responses to submaximal exercise in older rats. *Journal of Applied Physiology*, **2004**, 96, 81-8	3.7	111

98	Downhill running: a model of exercise hyperemia in the rat spinotrapezius muscle. *Journal of Applied Physiology*, **2004**, 97, 1138-42	3.7	13
97	Ventilatory dynamics and control of blood gases after maximal exercise in the Thoroughbred horse. *Journal of Applied Physiology*, **2004**, 96, 2187-93	3.7	22
96	Differential effects of emphysema on skeletal muscle fibre atrophy in hamsters. *European Respiratory Journal*, **2004**, 23, 703-7	13.6	13
95	Effects of chronic heart failure on microvascular oxygen exchange dynamics in muscles of contrasting fiber type. *Cardiovascular Research*, **2004**, 61, 325-32	9.9	38
94	Effects of chronic heart failure in rats on the recovery of microvascular PO2 after contractions in muscles of opposing fibre type. *Experimental Physiology*, **2004**, 89, 473-85	2.4	27
93	Measurement of muscle microvascular oxygen pressures: compartmentalization of phosphorescent probe. *Microcirculation*, **2004**, 11, 317-26	2.9	72
92	Effects of Emphysema on Skeletal Muscle Fiber Atrophy in Hamsters. *Medicine and Science in Sports and Exercise*, **2004**, 36, S332	1.2	
91	Inclined running increases pulmonary haemorrhage in the Thoroughbred horse. *Equine Veterinary Journal*, **2003**, 35, 581-5	2.4	13
90	Comparison of oxygen uptake on-kinetics calculations in heart failure. *Medicine and Science in Sports and Exercise*, **2003**, 35, 708-9; author reply 709	1.2	2
89	Effects of chronic heart failure on skeletal muscle capillary hemodynamics at rest and during contractions. *Journal of Applied Physiology*, **2003**, 95, 1055-62	3.7	106
88	Effects of aging on capillary geometry and hemodynamics in rat spinotrapezius muscle. *American Journal of Physiology - Heart and Circulatory Physiology*, **2003**, 285, H251-8	5.2	76
87	Cortical bone dynamics, strength, and densitometry after induction of emphysema in hamsters. *Journal of Applied Physiology*, **2003**, 95, 631-4	3.7	7
86	Effect of sampling strategy on measures of VO2peak obtained using commercial breath-by-breath systems. *European Journal of Applied Physiology*, **2003**, 89, 564-9	3.4	19
85	Oxygen exchange profile in rat muscles of contrasting fibre types. *Journal of Physiology*, **2003**, 549, 597-605	5.7	143
84	Arterial blood gas control in the upright versus recumbent Asian elephant. *Respiratory Physiology and Neurobiology*, **2003**, 134, 169-76	2.8	9
83	Plasticity of muscle energetics in the horse after training. *Equine Veterinary Journal*, **2002**, 34, 6-7	2.4	3
82	Mechanistic basis for the gas exchange threshold in Thoroughbred horses. *Journal of Applied Physiology*, **2002**, 92, 1499-505	3.7	21
81	Dynamics of microvascular oxygen pressure in the rat diaphragm. *Journal of Applied Physiology*, **2002**, 93, 227-32	3.7	18

80	Dynamics of microvascular oxygen pressure during rest-contraction transition in skeletal muscle of diabetic rats. *American Journal of Physiology - Heart and Circulatory Physiology*, **2002**, 283, H926-32	5.2	74
79	The effect of treadmill incline on maximal oxygen uptake, gas exchange and the metabolic response to exercise in the horse. *Experimental Physiology*, **2002**, 87, 499-506	2.4	16
78	Fiber composition and oxidative capacity of hamster skeletal muscle. *Journal of Histochemistry and Cytochemistry*, **2002**, 50, 1685-92	3.4	25
77	The relationship between power and the time to achieve .VO(2max). *Medicine and Science in Sports and Exercise*, **2002**, 34, 709-14	1.2	83
76	Dynamics of microvascular oxygen partial pressure in contracting skeletal muscle of rats with chronic heart failure. *Cardiovascular Research*, **2002**, 56, 479-86	9.9	93
75	Skeletal muscle capillary hemodynamics from rest to contractions: implications for oxygen transfer. *Journal of Applied Physiology*, **2002**, 92, 2513-20	3.7	158
74	Effects of prior contractions on muscle microvascular oxygen pressure at onset of subsequent contractions. *Journal of Physiology*, **2002**, 539, 927-34	3.9	67
73	Lipid peroxidation in the skeletal muscle of hamsters with emphysema. *Pathophysiology*, **2002**, 8, 215-221	1.8	13
72	Nitric oxide synthase inhibition speeds oxygen uptake kinetics in horses during moderate domain running. *Respiratory Physiology and Neurobiology*, **2002**, 132, 169-78	2.8	46
71	Dynamics of oxygen uptake following exercise onset in rat skeletal muscle. *Respiratory Physiology and Neurobiology*, **2002**, 133, 229-39	2.8	116
70	The relationship between power and the time to achieve &OV0312;O2max. *Medicine and Science in Sports and Exercise*, **2002**, 34, 709-714	1.2	60
69	Role of the airways in exercise-induced pulmonary haemorrhage. *Equine Veterinary Journal*, **2001**, 33, 537-9	2.4	5
68	Rat muscle microvascular PO2 kinetics during the exercise off-transient. *Experimental Physiology*, **2001**, 86, 349-56	2.4	40
67	Effects of nitric oxide synthase inhibition on vascular conductance during high speed treadmill exercise in rats. *Experimental Physiology*, **2001**, 86, 749-57	2.4	26
66	Effects of emphysema on diaphragm microvascular oxygen pressure. *American Journal of Respiratory and Critical Care Medicine*, **2001**, 163, 1081-6	10.2	21
65	Sarcomere length-induced alterations of capillary hemodynamics in rat spinotrapezius muscle: vasoactive vs passive control. *Microvascular Research*, **2001**, 61, 64-74	3.7	30
64	Dynamics of microvascular oxygen pressure across the rest-exercise transition in rat skeletal muscle. *Respiration Physiology*, **2001**, 126, 53-63		142
63	Efficacy of nasal strip and furosemide in mitigating EIPH in Thoroughbred horses. *Journal of Applied Physiology*, **2001**, 91, 1396-400	3.7	52

62	Effect of muscle mass on V(O(2)) kinetics at the onset of work. *Journal of Applied Physiology*, **2001**, 90, 461-8	3.7	26
61	NO inhalation reduces pulmonary arterial pressure but not hemorrhage in maximally exercising horses. *Journal of Applied Physiology*, **2001**, 91, 2674-8	3.7	28
60	Effect of L-NAME on oxygen uptake kinetics during heavy-intensity exercise in the horse. *Journal of Applied Physiology*, **2001**, 91, 891-6	3.7	48
59	Nasal strips and EIPH in the exercising Thoroughbred racehorse. *Journal of Applied Physiology*, **2001**, 91, 1908-10	3.7	3
58	EFFECTS OF PRIOR CONTRACTIONS ON MUSCLE MICROVASCULAR PO2 DYNAMICS AT EXERCISE ONSET. *Medicine and Science in Sports and Exercise*, **2001**, 33, S343	1.2	
57	MUSCLE MICROVASCULAR PO2 KINETICS AT THE OFF-TRANSIENT FROM ELECTRICAL STIMULATION. *Medicine and Science in Sports and Exercise*, **2001**, 33, S314	1.2	
56	Effects of external nasal support on pulmonary gas exchange and EIPH in the horse. *Journal of Equine Veterinary Science*, **2000**, 20, 579-585	1.2	26
55	Exercise-induced pulmonary hemorrhage: A new concept for prevention. *Journal of Equine Veterinary Science*, **2000**, 20, 164-167	1.2	6
54	Dissociation of exercise-induced pulmonary hemorrhage and pulmonary artery pressure via nitric oxide synthase inhibition. *Journal of Equine Veterinary Science*, **2000**, 20, 715-721	1.2	12
53	Spinotrapezius muscle microcirculatory function: effects of surgical exteriorization. *American Journal of Physiology - Heart and Circulatory Physiology*, **2000**, 279, H3131-7	5.2	66
52	Respiratory muscle blood flows during physiological and chemical hyperpnea in the rat. *Journal of Applied Physiology*, **2000**, 88, 186-94	3.7	57
51	Cardiorespiratory impact of the nitric oxide synthase inhibitor L-NAME in the exercising horse. *Respiration Physiology*, **2000**, 120, 151-66		39
50	Impaired capillary hemodynamics in skeletal muscle of rats in chronic heart failure. *Journal of Applied Physiology*, **1999**, 87, 652-60	3.7	72
49	V(O2) recovery kinetics in the horse following moderate, heavy, and severe exercise. *Journal of Applied Physiology*, **1999**, 86, 1170-7	3.7	28
48	Evidence of skeletal muscle metabolic reserve during whole body exercise in patients with chronic obstructive pulmonary disease. *American Journal of Respiratory and Critical Care Medicine*, **1999**, 159, 881-5	10.2	132
47	Effects of skeletal muscle sarcomere length on in vivo capillary distensibility. *Microvascular Research*, **1999**, 57, 144-52	3.7	17
46	Skeletal muscle microcirculatory structure and hemodynamics in diabetes. *Respiration Physiology*, **1998**, 111, 163-75		84
45	A comparison of the microcirculation in the rat spinotrapezius and diaphragm muscles. *Microvascular Research*, **1998**, 55, 249-59	3.7	54

44	Effects of emphysema on diaphragm blood flow during exercise. *Journal of Applied Physiology*, **1998**, 84, 971-9	3.7	18
43	Pulmonary emphysema decreases hamster skeletal muscle oxidative enzyme capacity. *Journal of Applied Physiology*, **1998**, 85, 210-4	3.7	35
42	Effect of heart failure on muscle capillary geometry: implications for 02 exchange. *Medicine and Science in Sports and Exercise*, **1998**, 30, 1230-7	1.2	25
41	Determinants of oxygen uptake. Implications for exercise testing. *Sports Medicine*, **1997**, 24, 308-20	10.6	92
40	Optimum sarcomere length in mammalian diaphragm. *Journal of Applied Physiology*, **1997**, 82, 1712-4	3.7	2
39	Effect of pulmonary emphysema on diaphragm capillary geometry. *Journal of Applied Physiology*, **1997**, 82, 599-606	3.7	20
38	VO2 kinetics in the horse during moderate and heavy exercise. *Journal of Applied Physiology*, **1997**, 83, 1235-41	3.7	47
37	Diaphragm structure and function in health and disease. *Medicine and Science in Sports and Exercise*, **1997**, 29, 738-54	1.2	52
36	Muscle O2 uptake kinetics in humans: implications for metabolic control. *Journal of Applied Physiology*, **1996**, 80, 988-98	3.7	465
35	VO2 kinetics in COPD patients under hyperoxic conditions. *Journal of Applied Physiology*, **1996**, 80, 1070-7	3.7	2
34	Effect of inspired O2 concentration on leg lactate release during incremental exercise. *Journal of Applied Physiology*, **1996**, 81, 246-51	3.7	27
33	The Slow Component of Oxygen Uptake Kinetics in Humans. *Exercise and Sport Sciences Reviews*, **1996**, 24, 35???70	6.7	288
32	Diaphragm thickness heterogeneity at functional residual capacity and total lung capacity. *Journal of Applied Physiology*, **1995**, 78, 1030-6	3.7	16
31	Diaphragm microvascular plasma PO2 measured in vivo. *Journal of Applied Physiology*, **1995**, 79, 2050-7	3.7	69
30	Costal diaphragm blood flow heterogeneity at rest and during exercise. *Respiration Physiology*, **1995**, 101, 171-82		26
29	Increased [lactate] in working dog muscle reduces tension development independent of pH. *Medicine and Science in Sports and Exercise*, **1995**, 27, 371???377	1.2	60
28	Temporal correlation between maximum tetanic force and cell death in postischemic rat skeletal muscle. *Journal of Clinical Investigation*, **1995**, 96, 2892-7	15.9	28
27	L-(+)-lactate infusion into working dog gastrocnemius: no evidence lactate per se mediates VO2 slow component. *Journal of Applied Physiology*, **1994**, 76, 787-92	3.7	60

26	Myosin and actin filament lengths in diaphragms from emphysematous hamsters. *Journal of Applied Physiology*, **1994**, 76, 1220-5	3.7	21
25	Role of exercising muscle in slow component of &OV0312;O2. *Medicine and Science in Sports and Exercise*, **1994**, 26, 1335???1340	1.2	20
24	Red blood cell transit time in man: theoretical effects of capillary density. *Advances in Experimental Medicine and Biology*, **1994**, 361, 521-32	3.6	17
23	Effects of hyperoxia on maximal leg O2 supply and utilization in men. *Journal of Applied Physiology*, **1993**, 75, 2586-94	3.7	192
22	High muscle blood flow in man: is maximal O2 extraction compromised?. *Journal of Applied Physiology*, **1993**, 75, 1911-6	3.7	212
21	Capillary geometrical changes with fiber shortening in rat myocardium. *Circulation Research*, **1992**, 70, 697-706	15.7	23
20	VA/Q distribution during heavy exercise and recovery in humans: implications for pulmonary edema. *Journal of Applied Physiology*, **1992**, 72, 1657-67	3.7	98
19	Relationship between body and leg VO2 during maximal cycle ergometry. *Journal of Applied Physiology*, **1992**, 73, 1114-21	3.7	94
18	Ventilation-perfusion relationships in the lung during head-out water immersion. *Journal of Applied Physiology*, **1992**, 72, 64-72	3.7	28
17	Pulmonary and leg VO2 during submaximal exercise: implications for muscular efficiency. *Journal of Applied Physiology*, **1992**, 72, 805-10	3.7	148
16	Contribution of exercising legs to the slow component of oxygen uptake kinetics in humans. *Journal of Applied Physiology*, **1991**, 71, 1245-60	3.7	316
15	The effects of training on the metabolic and respiratory profile of high-intensity cycle ergometer exercise. *European Journal of Applied Physiology and Occupational Physiology*, **1990**, 59, 421-9		158
14	Effects of hypoxia on capillary orientation in anterior tibialis muscle of highly active mice. *Respiration Physiology*, **1990**, 82, 1-10		11
13	Experimental support for the theory of diffusion limitation of maximum oxygen uptake. *Advances in Experimental Medicine and Biology*, **1990**, 277, 825-33	3.6	13
12	Fitness as a determinant of oxygen uptake response to constant-load exercise. *European Journal of Applied Physiology and Occupational Physiology*, **1989**, 59, 21-8		60
11	Skeletal muscle capillary geometry: adaptation to chronic hypoxia. *Respiration Physiology*, **1989**, 77, 21-9		48
10	Muscle fiber size and chronic exposure to hypoxia. *Advances in Experimental Medicine and Biology*, **1989**, 248, 305-11	3.6	16
9	Metabolic and respiratory profile of the upper limit for prolonged exercise in man. *Ergonomics*, **1988**, 31, 1265-79	2.9	602

8	Cardiovascular function and oxygen transport: responses to exercise and training **1988**, 212-245		1
7	Control of blood-gas and acid-base status during isometric exercise in humans. *Journal of Physiology*, **1988**, 396, 365-77	3.9	16
6	Effect of acute caloric restriction on work efficiency. *American Journal of Clinical Nutrition*, **1988**, 47, 15-8	7	40
5	Effects of exercise training on resting energy expenditure during caloric restriction. *American Journal of Clinical Nutrition*, **1987**, 46, 893-9	7	42
4	Dear Editor-in-Chief. *Medicine and Science in Sports and Exercise*, **1986**, 18, 703	1.2	24
3	Lactate and ventilatory thresholds: disparity in time course of adaptations to training. *Journal of Applied Physiology*, **1986**, 61, 999-1004	3.7	72
2	Response of ventilatory and lactate thresholds to continuous and interval training. *Journal of Applied Physiology*, **1985**, 58, 1115-21	3.7	171
1	Physiological Demands of Endurance Exercise43-55		6