

David C Poole

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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	Metabolic and respiratory profile of the upper limit for prolonged exercise in man. <i>Ergonomics</i> , 1988 , 31, 1265-79	2.9	602
366	Muscle O ₂ uptake kinetics in humans: implications for metabolic control. <i>Journal of Applied Physiology</i> , 1996 , 80, 988-98	3.7	465
365	Critical power: implications for determination of $\dot{V}O_{2max}$ and exercise tolerance. <i>Medicine and Science in Sports and Exercise</i> , 2010 , 42, 1876-90	1.2	327
364	Contribution of exercising legs to the slow component of oxygen uptake kinetics in humans. <i>Journal of Applied Physiology</i> , 1991 , 71, 1245-60	3.7	316
363	Muscle metabolic responses to exercise above and below the "critical power" assessed using 31P-MRS. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2008 , 294, R585-93	3.2	308
362	The Slow Component of Oxygen Uptake Kinetics in Humans. <i>Exercise and Sport Sciences Reviews</i> , 1996 , 24, 35-70	6.7	288
361	Validity of criteria for establishing maximal O ₂ uptake during ramp exercise tests. <i>European Journal of Applied Physiology</i> , 2008 , 102, 403-10	3.4	282
360	Oxygen uptake kinetics. <i>Comprehensive Physiology</i> , 2012 , 2, 933-96	7.7	265
359	Measurement of the maximum oxygen uptake $\dot{V}O_{2max}$: $\dot{V}O_{2max}$ is no longer acceptable. <i>Journal of Applied Physiology</i> , 2017 , 122, 997-1002	3.7	235
358	Critical Power: An Important Fatigue Threshold in Exercise Physiology. <i>Medicine and Science in Sports and Exercise</i> , 2016 , 48, 2320-2334	1.2	220
357	High muscle blood flow in man: is maximal O ₂ extraction compromised?. <i>Journal of Applied Physiology</i> , 1993 , 75, 1911-6	3.7	212
356	Impact of dietary nitrate supplementation via beetroot juice on exercising muscle vascular control in rats. <i>Journal of Physiology</i> , 2013 , 591, 547-57	3.9	203
355	Effect of inorganic nitrate on exercise capacity in heart failure with preserved ejection fraction. <i>Circulation</i> , 2015 , 131, 371-80; discussion 380	16.7	203
354	Muscle oxygen transport and utilization in heart failure: implications for exercise (in)tolerance. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012 , 302, H1050-63	5.2	197
353	Effects of hyperoxia on maximal leg O ₂ supply and utilization in men. <i>Journal of Applied Physiology</i> , 1993 , 75, 2586-94	3.7	192
352	Slow component of VO ₂ kinetics: mechanistic bases and practical applications. <i>Medicine and Science in Sports and Exercise</i> , 2011 , 43, 2046-62	1.2	191
351	Response of ventilatory and lactate thresholds to continuous and interval training. <i>Journal of Applied Physiology</i> , 1985 , 58, 1115-21	3.7	171

350	Control of microvascular oxygen pressures in rat muscles comprised of different fibre types. <i>Journal of Physiology</i> , 2005 , 563, 903-13	3.9	170
349	Skeletal muscle capillary hemodynamics from rest to contractions: implications for oxygen transfer. <i>Journal of Applied Physiology</i> , 2002 , 92, 2513-20	3.7	158
348	The effects of training on the metabolic and respiratory profile of high-intensity cycle ergometer exercise. <i>European Journal of Applied Physiology and Occupational Physiology</i> , 1990 , 59, 421-9		158
347	Control of oxygen uptake during exercise. <i>Medicine and Science in Sports and Exercise</i> , 2008 , 40, 462-74	1.2	148
346	Pulmonary and leg VO ₂ during submaximal exercise: implications for muscular efficiency. <i>Journal of Applied Physiology</i> , 1992 , 72, 805-10	3.7	148
345	Oxygen exchange profile in rat muscles of contrasting fibre types. <i>Journal of Physiology</i> , 2003 , 549, 597-605	3.7	143
344	Dynamics of microvascular oxygen pressure across the rest-exercise transition in rat skeletal muscle. <i>Respiration Physiology</i> , 2001 , 126, 53-63		142
343	Spatial heterogeneity of quadriceps muscle deoxygenation kinetics during cycle exercise. <i>Journal of Applied Physiology</i> , 2007 , 103, 2049-56	3.7	139
342	Evidence of skeletal muscle metabolic reserve during whole body exercise in patients with chronic obstructive pulmonary disease. <i>American Journal of Respiratory and Critical Care Medicine</i> , 1999 , 159, 881-5	10.2	132
341	Muscle fiber recruitment and the slow component of O ₂ uptake: constant work rate vs. all-out sprint exercise. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011 , 300, R700-7	3.2	121
340	Dynamics of oxygen uptake following exercise onset in rat skeletal muscle. <i>Respiratory Physiology and Neurobiology</i> , 2002 , 133, 229-39	2.8	116
339	Altered regional blood flow responses to submaximal exercise in older rats. <i>Journal of Applied Physiology</i> , 2004 , 96, 81-8	3.7	111
338	Effects of Type II diabetes on capillary hemodynamics in skeletal muscle. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006 , 291, H2439-44	5.2	107
337	Effects of chronic heart failure on skeletal muscle capillary hemodynamics at rest and during contractions. <i>Journal of Applied Physiology</i> , 2003 , 95, 1055-62	3.7	106
336	Dynamic heterogeneity of exercising muscle blood flow and O ₂ utilization. <i>Medicine and Science in Sports and Exercise</i> , 2014 , 46, 860-76	1.2	102
335	Exercise training as therapy for heart failure: current status and future directions. <i>Circulation: Heart Failure</i> , 2015 , 8, 209-20	7.6	101
334	Exercise training in chronic heart failure: improving skeletal muscle O ₂ transport and utilization. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015 , 309, H1419-39	5.2	98
333	VA/Q distribution during heavy exercise and recovery in humans: implications for pulmonary edema. <i>Journal of Applied Physiology</i> , 1992 , 72, 1657-67	3.7	98

332	Skeletal muscle capillary function: contemporary observations and novel hypotheses. <i>Experimental Physiology</i> , 2013 , 98, 1645-58	2.4	95
331	Relationship between body and leg VO ₂ during maximal cycle ergometry. <i>Journal of Applied Physiology</i> , 1992 , 73, 1114-21	3.7	94
330	Dynamics of microvascular oxygen partial pressure in contracting skeletal muscle of rats with chronic heart failure. <i>Cardiovascular Research</i> , 2002 , 56, 479-86	9.9	93
329	The maximal metabolic steady state: redefining the 'gold standard'. <i>Physiological Reports</i> , 2019 , 7, e140986	2.8	92
328	Determinants of oxygen uptake. Implications for exercise testing. <i>Sports Medicine</i> , 1997 , 24, 308-20	10.6	92
327	Comparison of oxygen uptake kinetics during knee extension and cycle exercise. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2005 , 288, R212-20	3.2	92
326	Skeletal muscle microcirculatory structure and hemodynamics in diabetes. <i>Respiration Physiology</i> , 1998 , 111, 163-75		84
325	The relationship between power and the time to achieve .VO ₂ (max). <i>Medicine and Science in Sports and Exercise</i> , 2002 , 34, 709-14	1.2	83
324	Effects of aging on microvascular oxygen pressures in rat skeletal muscle. <i>Respiratory Physiology and Neurobiology</i> , 2005 , 146, 259-68	2.8	81
323	Fiber Type-Specific Effects of Dietary Nitrate. <i>Exercise and Sport Sciences Reviews</i> , 2016 , 44, 53-60	6.7	80
322	Effects of aging on capillary geometry and hemodynamics in rat spinotrapezius muscle. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2003 , 285, H251-8	5.2	76
321	Critical speed in the rat: implications for hindlimb muscle blood flow distribution and fibre recruitment. <i>Journal of Physiology</i> , 2010 , 588, 5077-87	3.9	75
320	Oxygen uptake dynamics: from muscle to mouth--an introduction to the symposium. <i>Medicine and Science in Sports and Exercise</i> , 2005 , 37, 1542-50	1.2	75
319	Dynamics of microvascular oxygen pressure during rest-contraction transition in skeletal muscle of diabetic rats. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2002 , 283, H926-32	5.2	74
318	Microvascular oxygen pressures in muscles comprised of different fiber types: Impact of dietary nitrate supplementation. <i>Nitric Oxide - Biology and Chemistry</i> , 2015 , 48, 38-43	5	73
317	Dynamics of muscle microcirculatory and blood-myocyte O ₂ flux during contractions. <i>Acta Physiologica</i> , 2011 , 202, 293-310	5.6	73
316	Blood flow and O ₂ extraction as a function of O ₂ uptake in muscles composed of different fiber types. <i>Respiratory Physiology and Neurobiology</i> , 2006 , 153, 237-49	2.8	73
315	Measurement of muscle microvascular oxygen pressures: compartmentalization of phosphorescent probe. <i>Microcirculation</i> , 2004 , 11, 317-26	2.9	72

314	Impaired capillary hemodynamics in skeletal muscle of rats in chronic heart failure. <i>Journal of Applied Physiology</i> , 1999 , 87, 652-60	3.7	72
313	Lactate and ventilatory thresholds: disparity in time course of adaptations to training. <i>Journal of Applied Physiology</i> , 1986 , 61, 999-1004	3.7	72
312	Methodological validation of the dynamic heterogeneity of muscle deoxygenation within the quadriceps during cycle exercise. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011 , 301, R534-41	3.2	70
311	Human critical power-oxygen uptake relationship at different pedalling frequencies. <i>Experimental Physiology</i> , 2006 , 91, 621-32	2.4	70
310	Diaphragm microvascular plasma PO ₂ measured in vivo. <i>Journal of Applied Physiology</i> , 1995 , 79, 2050-7	3.7	69
309	Effects of prior contractions on muscle microvascular oxygen pressure at onset of subsequent contractions. <i>Journal of Physiology</i> , 2002 , 539, 927-34	3.9	67
308	Effects of Type II diabetes on muscle microvascular oxygen pressures. <i>Respiratory Physiology and Neurobiology</i> , 2007 , 156, 187-95	2.8	66
307	Spinotrapezius muscle microcirculatory function: effects of surgical exteriorization. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2000 , 279, H3131-7	5.2	66
306	L-(+)-lactate infusion into working dog gastrocnemius: no evidence lactate per se mediates VO ₂ slow component. <i>Journal of Applied Physiology</i> , 1994 , 76, 787-92	3.7	60
305	Increased [lactate] in working dog muscle reduces tension development independent of pH. <i>Medicine and Science in Sports and Exercise</i> , 1995 , 27, 371-377	1.2	60
304	Fitness as a determinant of oxygen uptake response to constant-load exercise. <i>European Journal of Applied Physiology and Occupational Physiology</i> , 1989 , 59, 21-8		60
303	The relationship between power and the time to achieve $\dot{V}O_{2max}$. <i>Medicine and Science in Sports and Exercise</i> , 2002 , 34, 709-714	1.2	60
302	Effects of eccentric exercise on microcirculation and microvascular oxygen pressures in rat spinotrapezius muscle. <i>Journal of Applied Physiology</i> , 2005 , 99, 1516-22	3.7	58
301	Effect of eccentric exercise-induced muscle damage on the dynamics of muscle oxygenation and pulmonary oxygen uptake. <i>Journal of Applied Physiology</i> , 2008 , 105, 1413-21	3.7	57
300	Intracellular calcium accumulation following eccentric contractions in rat skeletal muscle in vivo: role of stretch-activated channels. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2008 , 294, R1329-37	3.2	57
299	Respiratory muscle blood flows during physiological and chemical hyperpnea in the rat. <i>Journal of Applied Physiology</i> , 2000 , 88, 186-94	3.7	57
298	Muscle blood flow-O ₂ uptake interaction and their relation to on-exercise dynamics of O ₂ exchange. <i>Respiratory Physiology and Neurobiology</i> , 2005 , 147, 91-103	2.8	55
297	A comparison of the microcirculation in the rat spinotrapezius and diaphragm muscles. <i>Microvascular Research</i> , 1998 , 55, 249-59	3.7	54

296	The anaerobic threshold: 50+ years of controversy. <i>Journal of Physiology</i> , 2021 , 599, 737-767	3.9	53
295	Heterogeneity of Muscle Blood Flow and Metabolism: Influence of Exercise, Aging, and Disease States. <i>Exercise and Sport Sciences Reviews</i> , 2015 , 43, 117-24	6.7	52
294	Efficacy of nasal strip and furosemide in mitigating EIPH in Thoroughbred horses. <i>Journal of Applied Physiology</i> , 2001 , 91, 1396-400	3.7	52
293	Diaphragm structure and function in health and disease. <i>Medicine and Science in Sports and Exercise</i> , 1997 , 29, 738-54	1.2	52
292	Muscle deoxygenation in the quadriceps during ramp incremental cycling: Deep vs. superficial heterogeneity. <i>Journal of Applied Physiology</i> , 2015 , 119, 1313-9	3.7	51
291	Kinetics of muscle deoxygenation and microvascular PO ₂ during contractions in rat: comparison of optical spectroscopy and phosphorescence-quenching techniques. <i>Journal of Applied Physiology</i> , 2012 , 112, 26-32	3.7	51
290	Highly athletic terrestrial mammals: horses and dogs. <i>Comprehensive Physiology</i> , 2011 , 1, 1-37	7.7	50
289	Effects of nitrate supplementation via beetroot juice on contracting rat skeletal muscle microvascular oxygen pressure dynamics. <i>Respiratory Physiology and Neurobiology</i> , 2013 , 187, 250-5	2.8	49
288	Randomized Trial of a Web-Based Intervention to Address Barriers to Clinical Trials. <i>Journal of Clinical Oncology</i> , 2016 , 34, 469-78	2.2	48
287	Effect of L-NAME on oxygen uptake kinetics during heavy-intensity exercise in the horse. <i>Journal of Applied Physiology</i> , 2001 , 91, 891-6	3.7	48
286	Skeletal muscle capillary geometry: adaptation to chronic hypoxia. <i>Respiration Physiology</i> , 1989 , 77, 21-9		48
285	VO ₂ kinetics in the horse during moderate and heavy exercise. <i>Journal of Applied Physiology</i> , 1997 , 83, 1235-41	3.7	47
284	Nitric oxide synthase inhibition speeds oxygen uptake kinetics in horses during moderate domain running. <i>Respiratory Physiology and Neurobiology</i> , 2002 , 132, 169-78	2.8	46
283	Pharmacokinetics and Pharmacodynamics of Inorganic Nitrate in Heart Failure With Preserved Ejection Fraction. <i>Circulation Research</i> , 2017 , 120, 1151-1161	15.7	43
282	Validation of a high-power, time-resolved, near-infrared spectroscopy system for measurement of superficial and deep muscle deoxygenation during exercise. <i>Journal of Applied Physiology</i> , 2015 , 118, 1435-42	3.7	43
281	Exercise limitations in heart failure with reduced and preserved ejection fraction. <i>Journal of Applied Physiology</i> , 2018 , 124, 208-224	3.7	42
280	The final frontier: oxygen flux into muscle at exercise onset. <i>Exercise and Sport Sciences Reviews</i> , 2007 , 35, 166-73	6.7	42
279	Muscle microvascular oxygenation in chronic heart failure: role of nitric oxide availability. <i>Acta Physiologica</i> , 2006 , 188, 3-13	5.6	42

278	Effects of exercise training on resting energy expenditure during caloric restriction. <i>American Journal of Clinical Nutrition</i> , 1987 , 46, 893-9	7	42
277	Reproducibility of endurance capacity and VO ₂ peak in male Sprague-Dawley rats. <i>Journal of Applied Physiology</i> , 2009 , 106, 1072-8	3.7	40
276	Rat muscle microvascular PO ₂ kinetics during the exercise off-transient. <i>Experimental Physiology</i> , 2001 , 86, 349-56	2.4	40
275	Effect of acute caloric restriction on work efficiency. <i>American Journal of Clinical Nutrition</i> , 1988 , 47, 15-8		40
274	Cardiorespiratory impact of the nitric oxide synthase inhibitor L-NAME in the exercising horse. <i>Respiration Physiology</i> , 2000 , 120, 151-66		39
273	The effects of aging on capillary hemodynamics in contracting rat spinotrapezius muscle. <i>Microvascular Research</i> , 2009 , 77, 113-9	3.7	38
272	Effects of chronic heart failure on microvascular oxygen exchange dynamics in muscles of contrasting fiber type. <i>Cardiovascular Research</i> , 2004 , 61, 325-32	9.9	38
271	A single test for the determination of parameters of the speed-time relationship for running. <i>Respiratory Physiology and Neurobiology</i> , 2013 , 185, 380-5	2.8	37
270	Effects of prior heavy exercise on heterogeneity of muscle deoxygenation kinetics during subsequent heavy exercise. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2009 , 297, R615-21	3.2	36
269	Muscle fibre-type dependence of neuronal nitric oxide synthase-mediated vascular control in the rat during high speed treadmill running. <i>Journal of Physiology</i> , 2013 , 591, 2885-96	3.9	35
268	Pulmonary emphysema decreases hamster skeletal muscle oxidative enzyme capacity. <i>Journal of Applied Physiology</i> , 1998 , 85, 210-4	3.7	35
267	Greater V _O ₂ peak is correlated with greater skeletal muscle deoxygenation amplitude and hemoglobin concentration within individual muscles during ramp-incremental cycle exercise. <i>Physiological Reports</i> , 2016 , 4, e13065	2.6	34
266	Effects of altered nitric oxide availability on rat muscle microvascular oxygenation during contractions. <i>Acta Physiologica</i> , 2006 , 186, 223-32	5.6	34
265	Exercise training and muscle microvascular oxygenation: functional role of nitric oxide. <i>Journal of Applied Physiology</i> , 2012 , 113, 557-65	3.7	33
264	Aging potentiates the effect of congestive heart failure on muscle microvascular oxygenation. <i>Journal of Applied Physiology</i> , 2007 , 103, 1757-63	3.7	33
263	Effects of increased skin blood flow on muscle oxygenation/deoxygenation: comparison of time-resolved and continuous-wave near-infrared spectroscopy signals. <i>European Journal of Applied Physiology</i> , 2015 , 115, 335-43	3.4	31
262	Relative Proximity of Critical Power and Metabolic/Ventilatory Thresholds: Systematic Review and Meta-Analysis. <i>Sports Medicine</i> , 2020 , 50, 1771-1783	10.6	30
261	Skeletal muscle microvascular and interstitial PO ₂ from rest to contractions. <i>Journal of Physiology</i> , 2018 , 596, 869-883	3.9	30

260	Effects of neuronal nitric oxide synthase inhibition on resting and exercising hindlimb muscle blood flow in the rat. <i>Journal of Physiology</i> , 2010 , 588, 1321-31	3.9	30
259	Counterpoint: There is not capillary recruitment in active skeletal muscle during exercise. <i>Journal of Applied Physiology</i> , 2008 , 104, 891-3; discussion 893-4	3.7	30
258	Sarcomere length-induced alterations of capillary hemodynamics in rat spinotrapezius muscle: vasoactive vs passive control. <i>Microvascular Research</i> , 2001 , 61, 64-74	3.7	30
257	Effects of type II diabetes on exercising skeletal muscle blood flow in the rat. <i>Journal of Applied Physiology</i> , 2010 , 109, 1347-53	3.7	28
256	Temporal profile of rat skeletal muscle capillary haemodynamics during recovery from contractions. <i>Journal of Physiology</i> , 2006 , 573, 787-97	3.9	28
255	NO inhalation reduces pulmonary arterial pressure but not hemorrhage in maximally exercising horses. <i>Journal of Applied Physiology</i> , 2001 , 91, 2674-8	3.7	28
254	V(O ₂) recovery kinetics in the horse following moderate, heavy, and severe exercise. <i>Journal of Applied Physiology</i> , 1999 , 86, 1170-7	3.7	28
253	Ventilation-perfusion relationships in the lung during head-out water immersion. <i>Journal of Applied Physiology</i> , 1992 , 72, 64-72	3.7	28
252	Temporal correlation between maximum tetanic force and cell death in postischemic rat skeletal muscle. <i>Journal of Clinical Investigation</i> , 1995 , 96, 2892-7	15.9	28
251	Guidelines for animal exercise and training protocols for cardiovascular studies. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2020 , 318, H1100-H1138	5.2	27
250	Skeletal muscle microvascular oxygenation dynamics in heart failure: exercise training and nitric oxide-mediated function. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014 , 306, H690-8	5.2	27
249	Progressive chronic heart failure slows the recovery of microvascular O ₂ pressures after contractions in the rat spinotrapezius muscle. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010 , 299, H1755-61	5.2	27
248	Reply to Quaresima and Ferrari. <i>Journal of Applied Physiology</i> , 2009 , 107, 372-373	3.7	27
247	Oxygen exchange in muscle of young and old rats: muscle-vascular-pulmonary coupling. <i>Experimental Physiology</i> , 2007 , 92, 341-6	2.4	27
246	Effects of chronic heart failure in rats on the recovery of microvascular PO ₂ after contractions in muscles of opposing fibre type. <i>Experimental Physiology</i> , 2004 , 89, 473-85	2.4	27
245	Effect of inspired O ₂ concentration on leg lactate release during incremental exercise. <i>Journal of Applied Physiology</i> , 1996 , 81, 246-51	3.7	27
244	Dietary nitrate supplementation: impact on skeletal muscle vascular control in exercising rats with chronic heart failure. <i>Journal of Applied Physiology</i> , 2016 , 121, 661-9	3.7	26
243	Effects of nitric oxide synthase inhibition on vascular conductance during high speed treadmill exercise in rats. <i>Experimental Physiology</i> , 2001 , 86, 749-57	2.4	26

242	Effects of external nasal support on pulmonary gas exchange and EIPH in the horse. <i>Journal of Equine Veterinary Science</i> , 2000 , 20, 579-585	1.2	26
241	Effect of muscle mass on V(O ₂) kinetics at the onset of work. <i>Journal of Applied Physiology</i> , 2001 , 90, 461-8	3.7	26
240	Costal diaphragm blood flow heterogeneity at rest and during exercise. <i>Respiration Physiology</i> , 1995 , 101, 171-82		26
239	Financial Concerns About Participation in Clinical Trials Among Patients With Cancer. <i>Journal of Clinical Oncology</i> , 2016 , 34, 479-87	2.2	25
238	Recovery of microvascular PO ₂ during the exercise off-transient in muscles of different fiber type. <i>Journal of Applied Physiology</i> , 2004 , 96, 1039-44	3.7	25
237	Fiber composition and oxidative capacity of hamster skeletal muscle. <i>Journal of Histochemistry and Cytochemistry</i> , 2002 , 50, 1685-92	3.4	25
236	Effect of heart failure on muscle capillary geometry: implications for O ₂ exchange. <i>Medicine and Science in Sports and Exercise</i> , 1998 , 30, 1230-7	1.2	25
235	Application of best practice approaches for designing decision support tools: the preparatory education about clinical trials (PRE-ACT) study. <i>Patient Education and Counseling</i> , 2014 , 96, 63-71	3.1	24
234	Aging alters the contribution of nitric oxide to regional muscle hemodynamic control at rest and during exercise in rats. <i>Journal of Applied Physiology</i> , 2011 , 111, 989-98	3.7	24
233	Effects of arterial hypotension on microvascular oxygen exchange in contracting skeletal muscle. <i>Journal of Applied Physiology</i> , 2006 , 100, 1019-26	3.7	24
232	Dear Editor-in-Chief. <i>Medicine and Science in Sports and Exercise</i> , 1986 , 18, 703	1.2	24
231	Dynamics of middle cerebral artery blood flow velocity during moderate-intensity exercise. <i>Journal of Applied Physiology</i> , 2017 , 122, 1125-1133	3.7	23
230	Capillary geometrical changes with fiber shortening in rat myocardium. <i>Circulation Research</i> , 1992 , 70, 697-706	15.7	23
229	Effect of healthy aging and sex on middle cerebral artery blood velocity dynamics during moderate-intensity exercise. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2018 , 315, H492-H501	5.2	22
228	Near-infrared spectroscopy of superficial and deep rectus femoris reveals markedly different exercise response to superficial vastus lateralis. <i>Physiological Reports</i> , 2017 , 5, e13402	2.6	22
227	In vivo imaging of intracellular Ca ²⁺ after muscle contractions and direct Ca ²⁺ injection in rat skeletal muscle in diabetes. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2013 , 305, R610-8	3.2	22
226	Ventilatory dynamics and control of blood gases after maximal exercise in the Thoroughbred horse. <i>Journal of Applied Physiology</i> , 2004 , 96, 2187-93	3.7	22
225	Effect of chronic heart failure in older rats on respiratory muscle and hindlimb blood flow during submaximal exercise. <i>Respiratory Physiology and Neurobiology</i> , 2017 , 243, 20-26	2.8	21

224	Blood flow restriction prevents muscle damage but not protein synthesis signaling following eccentric contractions. <i>Physiological Reports</i> , 2015 , 3, e12449	2.6	21
223	Muscle microvascular hemoglobin concentration and oxygenation within the contraction-relaxation cycle. <i>Respiratory Physiology and Neurobiology</i> , 2008 , 160, 131-8	2.8	21
222	Mechanistic basis for the gas exchange threshold in Thoroughbred horses. <i>Journal of Applied Physiology</i> , 2002 , 92, 1499-505	3.7	21
221	Effects of emphysema on diaphragm microvascular oxygen pressure. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2001 , 163, 1081-6	10.2	21
220	Myosin and actin filament lengths in diaphragms from emphysematous hamsters. <i>Journal of Applied Physiology</i> , 1994 , 76, 1220-5	3.7	21
219	Improved skeletal muscle Ca regulation in vivo following contractions in mice overexpressing PGC-1 β . <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2017 , 312, R1017-R1028	3.2	20
218	Skeletal muscle interstitial O ₂ pressures: bridging the gap between the capillary and myocyte. <i>Microcirculation</i> , 2019 , 26, e12497	2.9	20
217	In vivo calcium regulation in diabetic skeletal muscle. <i>Cell Calcium</i> , 2014 , 56, 381-9	4	20
216	Dose dependent effects of nitrate supplementation on cardiovascular control and microvascular oxygenation dynamics in healthy rats. <i>Nitric Oxide - Biology and Chemistry</i> , 2014 , 39, 51-8	5	20
215	Role of neuronal nitric oxide synthase in modulating microvascular and contractile function in rat skeletal muscle. <i>Microcirculation</i> , 2011 , 18, 501-11	2.9	20
214	Aging impacts microvascular oxygen pressures during recovery from contractions in rat skeletal muscle. <i>Respiratory Physiology and Neurobiology</i> , 2009 , 169, 315-22	2.8	20
213	The effects of antioxidants on microvascular oxygenation and blood flow in skeletal muscle of young rats. <i>Experimental Physiology</i> , 2009 , 94, 961-71	2.4	20
212	Effect of pulmonary emphysema on diaphragm capillary geometry. <i>Journal of Applied Physiology</i> , 1997 , 82, 599-606	3.7	20
211	Effects of antioxidants on contracting spinotrapezius muscle microvascular oxygenation and blood flow in aged rats. <i>Journal of Applied Physiology</i> , 2008 , 105, 1889-96	3.7	20
210	Capillary hemodynamics and oxygen pressures in the aging microcirculation. <i>Microcirculation</i> , 2006 , 13, 289-99	2.9	20
209	Dynamics of muscle microcirculatory oxygen exchange. <i>Medicine and Science in Sports and Exercise</i> , 2005 , 37, 1559-66	1.2	20
208	Role of exercising muscle in slow component of \dot{V}_{O_2} . <i>Medicine and Science in Sports and Exercise</i> , 1994 , 26, 1335-1340	1.2	20
207	The role of vascular function on exercise capacity in health and disease. <i>Journal of Physiology</i> , 2021 , 599, 889-910	3.9	20

206	Skeletal Muscle Vascular Control During Exercise: Impact of Nitrite Infusion During Nitric Oxide Synthase Inhibition in Healthy Rats. <i>Journal of Cardiovascular Pharmacology and Therapeutics</i> , 2016 , 21, 201-8	2.6	19
205	Central and peripheral factors mechanistically linked to exercise intolerance in heart failure with reduced ejection fraction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019 , 317, H434-H444	5.2	19
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