David C Poole

List of Publications by Year
in descending order

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398	16,515	13854	21521
papers	citations	67 h-index	114 g-index

401	401	401	7365
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Metabolic and respiratory profile of the upper limit for prolonged exercise in man. Ergonomics, 1988, 31, 1265-1279.	1.1	691
2	Muscle O2 uptake kinetics in humans: implications for metabolic control. Journal of Applied Physiology, 1996, 80, 988-998.	1.2	498
3	The Slow Component of Oxygen Uptake Kinetics in Humans. Exercise and Sport Sciences Reviews, 1996, 24, 35???70.	1.6	427
4	Critical Power: Implications for Determination of VË™O2max and Exercise Tolerance. Medicine and Science in Sports and Exercise, 2010, 42, 1876-1890.	0.2	417
5	Muscle metabolic responses to exercise above and below the â€œcritical powerâ€•assessed using³¹P-MRS. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2008, 294, R585-R593.	0.9	372
6	Oxygen Uptake Kinetics. , 2012, 2, 933-996.		364
7	Contribution of excising legs to the slow component of oxygen uptake kinetics in humans. Journal of Applied Physiology, 1991, 71, 1245-1260.	1.2	357
8	Measurement of the maximum oxygen uptake VÌ‡<scp>o</scp>_{2max}: VÌ‡<scp>o</scp>_{2peak} is no longer acceptable. Journal of Applied Physiology, 2017, 122, 997-1002.	1.2	346
9	Critical Power. Medicine and Science in Sports and Exercise, 2016, 48, 2320-2334.	0.2	335
10	Validity of criteria for establishing maximal O2 uptake during ramp exercise tests. European Journal of Applied Physiology, 2008, 102, 403-410.	1.2	326
11	Slow Component of VË™O2 Kinetics. Medicine and Science in Sports and Exercise, 2011, 43, 2046-2062.	0.2	260
12	Effect of Inorganic Nitrate on Exercise Capacity in Heart Failure With Preserved Ejection Fraction. Circulation, 2015, 131, 371-380.	1.6	251
13	Impact of dietary nitrate supplementation via beetroot juice on exercising muscle vascular control in rats. Journal of Physiology, 2013, 591, 547-557.	1.3	249
14	High muscle blood flow in man: is maximal O2 extraction compromised?. Journal of Applied Physiology, 1993, 75, 1911-1916.	1.2	233
15	Muscle oxygen transport and utilization in heart failure: implications for exercise (in)tolerance. American Journal of Physiology - Heart and Circulatory Physiology, 2012, 302, H1050-H1063.	1.5	227
16	Effects of hyperoxia on maximal leg O2 supply and utilization in men. Journal of Applied Physiology, 1993, 75, 2586-2594.	1.2	208
17	Response of ventilatory and lactate thresholds to continuous and interval training. Journal of Applied Physiology, 1985, 58, 1115-1121.	1.2	197
18	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, 421-429.	1.2	192

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19	Control of microvascular oxygen pressures in rat muscles comprised of different fibre types. Journal of Physiology, 2005, 563, 903-913.	1.3	190
20	Skeletal muscle capillary hemodynamics from rest to contractions: implications for oxygen transfer. Journal of Applied Physiology, 2002, 92, 2513-2520.	1.2	171
21	Control of Oxygen Uptake during Exercise. Medicine and Science in Sports and Exercise, 2008, 40, 462-474.	0.2	171
22	Pulmonary and leg VO2 during submaximal exercise: implications for muscular efficiency. Journal of Applied Physiology, 1992, 72, 805-810.	1.2	169
23	The maximal metabolic steady state: redefining the â€˜gold standardâ€™. Physiological Reports, 2019, 7, e14098.	0.7	160
24	Dynamics of microvascular oxygen pressure across the rest-exercise transition in rat skeletal muscle. Respiration Physiology, 2001, 126, 53-63.	2.8	157
25	The anaerobic threshold: 50+ years of controversy. Journal of Physiology, 2021, 599, 737-767.	1.3	156
26	Oxygen Exchange Profile in Rat Muscles of Contrasting Fibre Types. Journal of Physiology, 2003, 549, 597-605.	1.3	155
27	Spatial heterogeneity of quadriceps muscle deoxygenation kinetics during cycle exercise. Journal of Applied Physiology, 2007, 103, 2049-2056.	1.2	151
28	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, 881-885.	2.5	150
29	Muscle fiber recruitment and the slow component of O₂uptake: constant work rate vs. all-out sprint exercise. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2011, 300, R700-R707.	0.9	141
30	Exercise Training as Therapy for Heart Failure. Circulation: Heart Failure, 2015, 8, 209-220.	1.6	133
31	Dynamics of oxygen uptake following exercise onset in rat skeletal muscle. Respiratory Physiology and Neurobiology, 2002, 133, 229-239.	0.7	125
32	Exercise training in chronic heart failure: improving skeletal muscle O₂transport and utilization. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 309, H1419-H1439.	1.5	124
33	Effects of Type II diabetes on capillary hemodynamics in skeletal muscle. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 291, H2439-H2444.	1.5	122
34	Determinants of Oxygen Uptake. Sports Medicine, 1997, 24, 308-320.	3.1	120
35	Effects of chronic heart failure on skeletal muscle capillary hemodynamics at rest and during contractions. Journal of Applied Physiology, 2003, 95, 1055-1062.	1.2	116
36	Altered regional blood flow responses to submaximal exercise in older rats. Journal of Applied Physiology, 2004, 96, 81-88.	1.2	116

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37	Skeletal muscle capillary function: contemporary observations and novel hypotheses. Experimental Physiology, 2013, 98, 1645-1658.	0.9	115
38	Dynamic Heterogeneity of Exercising Muscle Blood Flow and O2 Utilization. Medicine and Science in Sports and Exercise, 2014, 46, 860-876.	0.2	115
39	The relationship between power and the time to achieve &OV0312;O2max. Medicine and Science in Sports and Exercise, 2002, 34, 709-714.	0.2	110
40	Comparison of oxygen uptake kinetics during knee extension and cycle exercise. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2005, 288, R212-R220.	0.9	109
41	VA/Q distribution during heavy exercise and recovery in humans: implications for pulmonary edema. Journal of Applied Physiology, 1992, 72, 1657-1667.	1.2	107
42	Relationship between body and leg VO2 during maximal cycle ergometry. Journal of Applied Physiology, 1992, 73, 1114-1121.	1.2	107
43	Fiber Type-Specific Effects of Dietary Nitrate. Exercise and Sport Sciences Reviews, 2016, 44, 53-60.	1.6	107
44	Dynamics of microvascular oxygen partial pressure in contracting skeletal muscle of rats with chronic heart failure. Cardiovascular Research, 2002, 56, 479-486.	1.8	99
45	Oxygen Uptake Dynamics: From Muscle to Mouthâ€"An Introduction to the Symposium. Medicine and Science in Sports and Exercise, 2005, 37, 1542-1550.	0.2	97
46	Microvascular oxygen pressures in muscles comprised of different fiber types: Impact of dietary nitrate supplementation. Nitric Oxide - Biology and Chemistry, 2015, 48, 38-43.	1.2	91
47	Skeletal muscle microcirculatory structure and hemodynamics in diabetes. Respiration Physiology, 1998, 111, 163-175.	2.8	89
48	Increased [lactate] in working dog muscle reduces tension development independent of pH. Medicine and Science in Sports and Exercise, 1995, 27, 371???377.	0.2	87
49	Critical speed in the rat: implications for hindlimb muscle blood flow distribution and fibre recruitment. Journal of Physiology, 2010, 588, 5077-5087.	1.3	86
50	Effects of aging on microvascular oxygen pressures in rat skeletal muscle. Respiratory Physiology and Neurobiology, 2005, 146, 259-268.	0.7	85
51	Dynamics of muscle microcirculatory and bloodâ€"myocyte O₂ flux during contractions. Acta Physiologica, 2011, 202, 293-310.	1.8	85
52	Human critical power-oxygen uptake relationship at different pedalling frequencies. Experimental Physiology, 2006, 91, 621-632.	0.9	83
53	Lactate and ventilatory thresholds: disparity in time course of adaptations to training. Journal of Applied Physiology, 1986, 61, 999-1004.	1.2	81
54	Effects of aging on capillary geometry and hemodynamics in rat spinotrapezius muscle. American Journal of Physiology - Heart and Circulatory Physiology, 2003, 285, H251-H258.	1.5	81

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55	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-R541.	0.9	80
56	Impaired capillary hemodynamics in skeletal muscle of rats in chronic heart failure. Journal of Applied Physiology, 1999, 87, 652-660.	1.2	79
57	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-H932.	1.5	79
58	Blood flow and O2 extraction as a function of O2 uptake in muscles composed of different fiber types. Respiratory Physiology and Neurobiology, 2006, 153, 237-249.	0.7	79
59	Effect of reduced hemoglobin concentration on leg oxygen uptake during maximal exercise in humans. Journal of Applied Physiology, 1993, 75, 491-498.	1.2	76
60	Spinotrapezius muscle microcirculatory function: effects of surgical exteriorization. American Journal of Physiology - Heart and Circulatory Physiology, 2000, 279, H3131-H3137.	1.5	74
61	Fitness as a determinant of oxygen uptake response to constant-load exercise. European Journal of Applied Physiology and Occupational Physiology, 1989, 59, 21-28.	1.2	73
62	Measurement of Muscle Microvascular Oxygen Pressures: Compartmentalization of Phosphorescent Probe. Microcirculation, 2004, 11, 317-326.	1.0	73
63	Diaphragm structure and function in health and disease. Medicine and Science in Sports and Exercise, 1997, 29, 738-754.	0.2	73
64	Effects of Type II diabetes on muscle microvascular oxygen pressures. Respiratory Physiology and Neurobiology, 2007, 156, 187-195.	0.7	72
65	Exercise limitations in heart failure with reduced and preserved ejection fraction. Journal of Applied Physiology, 2018, 124, 208-224.	1.2	72
66	The relationship between power and the time to achieve &OV0312;O2max. Medicine and Science in Sports and Exercise, 2002, 34, 709-714.	0.2	72
67	Diaphragm microvascular plasma PO2 measured in vivo. Journal of Applied Physiology, 1995, 79, 2050-2057.	1.2	71
68	Effects of prior contractions on muscle microvascular oxygen pressure at onset of subsequent contractions. Journal of Physiology, 2002, 539, 927-934.	1.3	69
69	Heterogeneity of Muscle Blood Flow and Metabolism. Exercise and Sport Sciences Reviews, 2015, 43, 117-124.	1.6	69
70	Effect of eccentric exercise-induced muscle damage on the dynamics of muscle oxygenation and pulmonary oxygen uptake. Journal of Applied Physiology, 2008, 105, 1413-1421.	1.2	66
71	Guidelines for animal exercise and training protocols for cardiovascular studies. American Journal of Physiology - Heart and Circulatory Physiology, 2020, 318, H1100-H1138.	1.5	66
72	L-(+)-lactate infusion into working dog gastrocnemius: no evidence lactate per se mediates VO2 slow component. Journal of Applied Physiology, 1994, 76, 787-792.	1.2	64

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73	Effects of eccentric exercise on microcirculation and microvascular oxygen pressures in rat spinotrapezius muscle. Journal of Applied Physiology, 2005, 99, 1516-1522.	1.2	64
74	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-R1337.	0.9	63
75	Respiratory muscle blood flows during physiological and chemical hyperpnea in the rat. Journal of Applied Physiology, 2000, 88, 186-194.	1.2	62
76	Randomized Trial of a Web-Based Intervention to Address Barriers to Clinical Trials. Journal of Clinical Oncology, 2016, 34, 469-478.	0.8	62
77	Relative Proximity of Critical Power and Metabolic/Ventilatory Thresholds: Systematic Review and Meta-Analysis. Sports Medicine, 2020, 50, 1771-1783.	3.1	61
78	Muscle blood flowâ€“O2 uptake interaction and their relation to on-exercise dynamics of O2 exchange. Respiratory Physiology and Neurobiology, 2005, 147, 91-103.	0.7	60
79	Highly Athletic Terrestrial Mammals: Horses and Dogs. , 2011, 1, 1-37.		60
80	Muscle deoxygenation in the quadriceps during ramp incremental cycling: Deep vs. superficial heterogeneity. Journal of Applied Physiology, 2015, 119, 1313-1319.	1.2	60
81	A Comparison of the Microcirculation in the Rat Spinotrapezius and Diaphragm Muscles. Microvascular Research, 1998, 55, 249-259.	1.1	58
82	Dynamics of middle cerebral artery blood flow velocity during moderate-intensity exercise. Journal of Applied Physiology, 2017, 122, 1125-1133.	1.2	57
83	Effects of nitrate supplementation via beetroot juice on contracting rat skeletal muscle microvascular oxygen pressure dynamics. Respiratory Physiology and Neurobiology, 2013, 187, 250-255.	0.7	56
84	Efficacy of nasal strip and furosemide in mitigating EIPH in Thoroughbred horses. Journal of Applied Physiology, 2001, 91, 1396-1400.	1.2	55
85	Kinetics of muscle deoxygenation and microvascular P<scp>o</scp>₂ during contractions in rat: comparison of optical spectroscopy and phosphorescence-quenching techniques. Journal of Applied Physiology, 2012, 112, 26-32.	1.2	55
86	Effects of exercise training on resting energy expenditure during caloric restriction. American Journal of Clinical Nutrition, 1987, 46, 893-899.	2.2	54
87	Skeletal muscle capillary geometry: adaptation to chronic hypoxia. Respiration Physiology, 1989, 77, 21-29.	2.8	54
88	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.	1.5	54
89	Reproducibility of endurance capacity and V̀‡o2peak in male Sprague-Dawley rats. Journal of Applied Physiology, 2009, 106, 1072-1078.	1.2	53
90	Pharmacokinetics and Pharmacodynamics of Inorganic Nitrate in Heart Failure With Preserved Ejection Fraction. Circulation Research, 2017, 120, 1151-1161.	2.0	52

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91	VË™o 2 kinetics in the horse during moderate and heavy exercise. Journal of Applied Physiology, 1997, 83, 1235-1241.	1.2	51
92	Effect of l-NAME on oxygen uptake kinetics during heavy-intensity exercise in the horse. Journal of Applied Physiology, 2001, 91, 891-896.	1.2	50
93	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, 1435-1442.	1.2	48
94	Nitric oxide synthase inhibition speeds oxygen uptake kinetics in horses during moderate domain running. Respiratory Physiology and Neurobiology, 2002, 132, 169-178.	0.7	47
95	Effects of chronic heart failure on microvascular oxygen exchange dynamics in muscles of contrasting fiber type. Cardiovascular Research, 2004, 61, 325-332.	1.8	46
96	The Final Frontier. Exercise and Sport Sciences Reviews, 2007, 35, 166-173.	1.6	46
97	Rat Muscle Microvascular P O2 Kinetics During the Exercise Off-Transient. Experimental Physiology, 2001, 86, 349-356.	0.9	44
98	Effect of acute caloric restriction on work efficiency. American Journal of Clinical Nutrition, 1988, 47, 15-18.	2.2	43
99	Muscle microvascular oxygenation in chronic heart failure: role of nitric oxide availability. Acta Physiologica, 2006, 188, 3-13.	1.8	43
100	The effects of aging on capillary hemodynamics in contracting rat spinotrapezius muscle. Microvascular Research, 2009, 77, 113-119.	1.1	43
101	A single test for the determination of parameters of the speedâ€“time relationship for running. Respiratory Physiology and Neurobiology, 2013, 185, 380-385.	0.7	43
102	Muscle fibreâ€type dependence of neuronal nitric oxide synthaseâ€mediated vascular control in the rat during high speed treadmill running. Journal of Physiology, 2013, 591, 2885-2896.	1.3	42
103	Skeletal muscle microvascular and interstitial from rest to contractions. Journal of Physiology, 2018, 596, 869-883.	1.3	42
104	Cardiorespiratory impact of the nitric oxide synthase inhibitor l-NAME in the exercising horse. Respiration Physiology, 2000, 120, 151-166.	2.8	41
105	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-R621.	0.9	41
106	GreaterVÌ‡O_{2peak}is correlated with greater skeletal muscle deoxygenation amplitude and hemoglobin concentration within individual muscles during ramp-incremental cycle exercise. Physiological Reports, 2016, 4, e13065.	0.7	41
107	Exercise training and muscle microvascular oxygenation: functional role of nitric oxide. Journal of Applied Physiology, 2012, 113, 557-565.	1.2	39
108	The role of vascular function on exercise capacity in health and disease. Journal of Physiology, 2021, 599, 889-910.	1.3	39

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109	Pulmonary emphysema decreases hamster skeletal muscle oxidative enzyme capacity. Journal of Applied Physiology, 1998, 85, 210-214.	1.2	38
110	Effects of altered nitric oxide availability on rat muscle microvascular oxygenation during contractions. Acta Physiologica, 2006, 186, 223-232.	1.8	37
111	Role of exercising muscle in slow component of &OV0312;O2. Medicine and Science in Sports and Exercise, 1994, 26, 1335???1340.	0.2	35
112	Sarcomere Length-Induced Alterations of Capillary Hemodynamics in Rat Spinotrapezius Muscle: Vasoactive vs Passive Control. Microvascular Research, 2001, 61, 64-74.	1.1	34
113	Aging potentiates the effect of congestive heart failure on muscle microvascular oxygenation. Journal of Applied Physiology, 2007, 103, 1757-1763.	1.2	34
114	Dietary nitrate supplementation: impact on skeletal muscle vascular control in exercising rats with chronic heart failure. Journal of Applied Physiology, 2016, 121, 661-669.	1.2	34
115	Counterpoint: There is not capillary recruitment in active skeletal muscle during exercise. Journal of Applied Physiology, 2008, 104, 891-893.	1.2	33
116	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, 335-343.	1.2	33
117	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.	1.3	33
118	Temporal correlation between maximum tetanic force and cell death in postischemic rat skeletal muscle.. Journal of Clinical Investigation, 1995, 96, 2892-2897.	3.9	33
119	Ventilation-perfusion relationships in the lung during head-out water immersion. Journal of Applied Physiology, 1992, 72, 64-72.	1.2	32
120	Temporal profile of rat skeletal muscle capillary haemodynamics during recovery from contractions. Journal of Physiology, 2006, 573, 787-797.	1.3	32
121	Effects of neuronal nitric oxide synthase inhibition on resting and exercising hindlimb muscle blood flow in the rat. Journal of Physiology, 2010, 588, 1321-1331.	1.3	32
122	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-H698.	1.5	32
123	Financial Concerns About Participation in Clinical Trials Among Patients With Cancer. Journal of Clinical Oncology, 2016, 34, 479-487.	0.8	32
124	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.	1.0	31
125	Effect of inspired O2 concentration on leg lactate release during incremental exercise. Journal of Applied Physiology, 1996, 81, 246-251.	1.2	30
126	Exercise intensity and middle cerebral artery dynamics in humans. Respiratory Physiology and Neurobiology, 2019, 262, 32-39.	0.7	30

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127	Effect of heart failure on muscle capillary geometry: implications for O2 exchange. Medicine and Science in Sports and Exercise, 1998, 30, 1230-1237.	0.2	30
128	VË™o 2 recovery kinetics in the horse following moderate, heavy, and severe exercise. Journal of Applied Physiology, 1999, 86, 1170-1177.	1.2	29
129	Effect of muscle mass on VË™o 2kinetics at the onset of work. Journal of Applied Physiology, 2001, 90, 461-468.	1.2	29
130	Effects of nitric oxide synthase inhibition on vascular conductance during high speed treadmill exercise in rats. Experimental Physiology, 2001, 86, 749-757.	0.9	29
131	Effects of Type II diabetes on exercising skeletal muscle blood flow in the rat. Journal of Applied Physiology, 2010, 109, 1347-1353.	1.2	29
132	Skeletal muscle interstitial O₂ pressures: bridging the gap between the capillary and myocyte. Microcirculation, 2019, 26, e12497.	1.0	29
133	NO inhalation reduces pulmonary arterial pressure but not hemorrhage in maximally exercising horses. Journal of Applied Physiology, 2001, 91, 2674-2678.	1.2	28
134	Costal diaphragm blood flow heterogeneity at rest and during exercise. Respiration Physiology, 1995, 101, 171-182.	2.8	27
135	Effects of external nasal support on pulmonary gas exchange and EIPH in the horse. Journal of Equine Veterinary Science, 2000, 20, 579-585.	0.4	27
136	Fiber Composition and Oxidative Capacity of Hamster Skeletal Muscle. Journal of Histochemistry and Cytochemistry, 2002, 50, 1685-1692.	1.3	27
137	Effects of chronic heart failure in rats on the recovery of microvascularPO2after contractions in muscles of opposing fibre type. Experimental Physiology, 2004, 89, 473-485.	0.9	27
138	Oxygen exchange in muscle of young and old rats: muscle-vascular-pulmonary coupling. Experimental Physiology, 2007, 92, 341-346.	0.9	27
139	Reply to Quaresima and Ferrari. Journal of Applied Physiology, 2009, 107, 372-373.	1.2	27
140	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-H1761.	1.5	27
141	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-R618.	0.9	27
142	In vivo calcium regulation in diabetic skeletal muscle. Cell Calcium, 2014, 56, 381-389.	1.1	27
143	Blood flow restriction prevents muscle damage but not protein synthesis signaling following eccentric contractions. Physiological Reports, 2015, 3, e12449.	0.7	27
144	Effects of Emphysema on Diaphragm Microvascular Oxygen Pressure. American Journal of Respiratory and Critical Care Medicine, 2001, 163, 1081-1086.	2.5	26

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145	Recovery of microvascular Po2 during the exercise off-transient in muscles of different fiber type. Journal of Applied Physiology, 2004, 96, 1039-1044.	1.2	26
146	Effects of arterial hypotension on microvascular oxygen exchange in contracting skeletal muscle. Journal of Applied Physiology, 2006, 100, 1019-1026.	1.2	26
147	Edward F. Adolph Distinguished Lecture. Contemporary model of muscle microcirculation: gateway to function and dysfunction. Journal of Applied Physiology, 2019, 127, 1012-1033.	1.2	26
148	Dear Editor-in-Chief. Medicine and Science in Sports and Exercise, 1986, 18, 703.	0.2	25
149	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, 989-998.	1.2	25
150	Improved skeletal muscle Ca²⁺ regulation in vivo following contractions in mice overexpressing PGC-1Î±. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2017, 312, R1017-R1028.	0.9	25
151	Near-infrared spectroscopy of superficial and deep rectus femoris reveals markedly different exercise response to superficial vastus lateralis. Physiological Reports, 2017, 5, e13402.	0.7	25
152	Peripheral Determinants of Oxygen Utilization in HeartÂFailure With Preserved Ejection Fraction. JACC Basic To Translational Science, 2020, 5, 211-225.	1.9	25
153	Capillary geometrical changes with fiber shortening in rat myocardium.. Circulation Research, 1992, 70, 697-706.	2.0	24
154	Ventilatory dynamics and control of blood gases after maximal exercise in the Thoroughbred horse. Journal of Applied Physiology, 2004, 96, 2187-2193.	1.2	24
155	Muscle microvascular hemoglobin concentration and oxygenation within the contractionâ€“relaxation cycle. Respiratory Physiology and Neurobiology, 2008, 160, 131-138.	0.7	24
156	Effects of antioxidants on contracting spinotrapezius muscle microvascular oxygenation and blood flow in aged rats. Journal of Applied Physiology, 2008, 105, 1889-1896.	1.2	24
157	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.	1.5	24
158	Myosin and actin filament lengths in diaphragms from emphysematous hamsters. Journal of Applied Physiology, 1994, 76, 1220-1225.	1.2	23
159	Mechanistic basis for the gas exchange threshold in Thoroughbred horses. Journal of Applied Physiology, 2002, 92, 1499-1505.	1.2	23
160	Dose dependent effects of nitrate supplementation on cardiovascular control and microvascular oxygenation dynamics in healthy rats. Nitric Oxide - Biology and Chemistry, 2014, 39, 51-58.	1.2	23
161	Reduction of VÌ‡_{O2}slow component by priming exercise: novel mechanistic insights from time-resolved near-infrared spectroscopy. Physiological Reports, 2015, 3, e12432.	0.7	23
162	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.	0.7	23

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163	Dynamics of microvascular oxygen pressure in the rat diaphragm. Journal of Applied Physiology, 2002, 93, 227-232.	1.2	22
164	Effect of sampling strategy on measures of V?O2peak obtained using commercial breath-by-breath systems. European Journal of Applied Physiology, 2003, 89, 564-569.	1.2	22
165	Dynamics of Muscle Microcirculatory Oxygen Exchange. Medicine and Science in Sports and Exercise, 2005, 37, 1559-1566.	0.2	22
166	Capillary Hemodynamics and Oxygen Pressures in the Aging Microcirculation. Microcirculation, 2006, 13, 289-299.	1.0	22
167	Sex differences in intracellular Ca²⁺ accumulation following eccentric contractions of rat skeletal muscle in vivo. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2010, 299, R1006-R1012.	0.9	22
168	Role of Neuronal Nitric Oxide Synthase in Modulating Microvascular and Contractile Function in Rat Skeletal Muscle. Microcirculation, 2011, 18, 501-511.	1.0	22
169	Effect of pulmonary emphysema on diaphragm capillary geometry. Journal of Applied Physiology, 1997, 82, 599-606.	1.2	21
170	Aging impacts microvascular oxygen pressures during recovery from contractions in rat skeletal muscle. Respiratory Physiology and Neurobiology, 2009, 169, 315-322.	0.7	21
171	The effects of antioxidants on microvascular oxygenation and blood flow in skeletal muscle of young rats. Experimental Physiology, 2009, 94, 961-971.	0.9	21
172	Red Blood Cell Transit Time in Man: Theoretical Effects of Capillary Density. Advances in Experimental Medicine and Biology, 1994, 361, 521-532.	0.8	21
173	Control of bloodâ€gas and acidâ€base status during isometric exercise in humans.. Journal of Physiology, 1988, 396, 365-377.	1.3	20
174	Effects of emphysema on diaphragm blood flow during exercise. Journal of Applied Physiology, 1998, 84, 971-979.	1.2	20
175	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-R137.	0.9	20
176	Skeletal Muscle Vascular Control During Exercise. Journal of Cardiovascular Pharmacology and Therapeutics, 2016, 21, 201-208.	1.0	20
177	Effects of Skeletal Muscle Sarcomere Length onin VivoCapillary Distensibility. Microvascular Research, 1999, 57, 144-152.	1.1	19
178	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-R485.	0.9	19
179	Muscle Fiber Size and Chronic Exposure to Hypoxia. Advances in Experimental Medicine and Biology, 1989, 248, 305-311.	0.8	19
180	Nitric oxide bioavailability modulates the dynamics of microvascular oxygen exchange during recovery from contractions. Acta Physiologica, 2010, 200, 159-169.	1.8	18

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