

Scott K Powers

List of Publications by Year in descending order

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Version: 2024-02-01

212
papers

22,498
citations

9786

73
h-index

8866

145
g-index

217
all docs

217
docs citations

217
times ranked

25973
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222. | 9.1 | 4,701 |
| 2 | Exercise-Induced Oxidative Stress: Cellular Mechanisms and Impact on Muscle Force Production. <i>Physiological Reviews</i> , 2008, 88, 1243-1276. | 28.8 | 1,784 |
| 3 | Rapid Disuse Atrophy of Diaphragm Fibers in Mechanically Ventilated Humans. <i>New England Journal of Medicine</i> , 2008, 358, 1327-1335. | 27.0 | 1,270 |
| 4 | Oxidative stress and disuse muscle atrophy. <i>Journal of Applied Physiology</i> , 2007, 102, 2389-2397. | 2.5 | 401 |
| 5 | Exercise training-induced alterations in skeletal muscle antioxidant capacity: a brief review. <i>Medicine and Science in Sports and Exercise</i> , 1999, 31, 987-997. | 0.4 | 376 |
| 6 | The COVID-19 pandemic and physical activity. <i>Sports Medicine and Health Science</i> , 2020, 2, 55-64. | 2.0 | 354 |
| 7 | Reactive Oxygen Species: Impact on Skeletal Muscle. , 2011, 1, 941-969. | | 346 |
| 8 | Exercise-induced oxidative stress in humans: Cause and consequences. <i>Free Radical Biology and Medicine</i> , 2011, 51, 942-950. | 2.9 | 340 |
| 9 | Reactive oxygen species are signalling molecules for skeletal muscle adaptation. <i>Experimental Physiology</i> , 2010, 95, 1-9. | 2.0 | 322 |
| 10 | Mechanisms of disuse muscle atrophy: role of oxidative stress. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2005, 288, R337-R344. | 1.8 | 294 |
| 11 | Mechanical Ventilation-induced Diaphragmatic Atrophy Is Associated with Oxidative Injury and Increased Proteolytic Activity. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2002, 166, 1369-1374. | 5.6 | 293 |
| 12 | Mechanical ventilation results in progressive contractile dysfunction in the diaphragm. <i>Journal of Applied Physiology</i> , 2002, 92, 1851-1858. | 2.5 | 281 |
| 13 | Exercise-induced oxidative stress: Friend or foe?. <i>Journal of Sport and Health Science</i> , 2020, 9, 415-425. | 6.5 | 270 |
| 14 | Reactive oxygen and nitrogen species as intracellular signals in skeletal muscle. <i>Journal of Physiology</i> , 2011, 589, 2129-2138. | 2.9 | 256 |
| 15 | Dietary antioxidants and exercise. <i>Journal of Sports Sciences</i> , 2004, 22, 81-94. | 2.0 | 237 |
| 16 | Exercise-induced oxidative stress: past, present and future. <i>Journal of Physiology</i> , 2016, 594, 5081-5092. | 2.9 | 232 |
| 17 | Mitochondria-targeted antioxidants protect against mechanical ventilation-induced diaphragm weakness*. <i>Critical Care Medicine</i> , 2011, 39, 1749-1759. | 0.9 | 231 |
| 18 | Heat stress attenuates skeletal muscle atrophy in hindlimb-unweighted rats. <i>Journal of Applied Physiology</i> , 2000, 88, 359-363. | 2.5 | 213 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Mitochondrial-targeted antioxidants protect skeletal muscle against immobilization-induced muscle atrophy. <i>Journal of Applied Physiology</i> , 2011, 111, 1459-1466. | 2.5 | 202 |
| 20 | Oxidative stress and disuse muscle atrophy. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2012, 15, 240-245. | 2.5 | 198 |
| 21 | Analysis of cellular responses to free radicals: focus on exercise and skeletal muscle. <i>Proceedings of the Nutrition Society</i> , 1999, 58, 1025-1033. | 1.0 | 195 |
| 22 | Exercise-induced cardioprotection against myocardial ischemia-induced reperfusion injury. <i>Free Radical Biology and Medicine</i> , 2008, 44, 193-201. | 2.9 | 195 |
| 23 | Trolox Attenuates Mechanical Ventilation-induced Diaphragmatic Dysfunction and Proteolysis. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2004, 170, 1179-1184. | 5.6 | 191 |
| 24 | Mitochondrial signaling contributes to disuse muscle atrophy. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2012, 303, E31-E39. | 3.5 | 189 |
| 25 | Mechanical ventilation induces diaphragmatic mitochondrial dysfunction and increased oxidant production. <i>Free Radical Biology and Medicine</i> , 2009, 46, 842-850. | 2.9 | 185 |
| 26 | Oxidative stress is required for mechanical ventilation-induced protease activation in the diaphragm. <i>Journal of Applied Physiology</i> , 2010, 108, 1376-1382. | 2.5 | 166 |
| 27 | Oxidation enhances myofibrillar protein degradation via calpain and caspase-3. <i>Free Radical Biology and Medicine</i> , 2010, 49, 1152-1160. | 2.9 | 165 |
| 28 | High intensity training-induced changes in skeletal muscle antioxidant enzyme activity. <i>Medicine and Science in Sports and Exercise</i> , 1993, 25, 1135-1140. | 0.4 | 164 |
| 29 | Exercise, antioxidants, and HSP72: protection against myocardial ischemia/reperfusion. <i>Free Radical Biology and Medicine</i> , 2003, 34, 800-809. | 2.9 | 163 |
| 30 | Caspase-3 Regulation of Diaphragm Myonuclear Domain during Mechanical Ventilation-induced Atrophy. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2007, 175, 150-159. | 5.6 | 161 |
| 31 | Short-term exercise improves myocardial tolerance to in vivo ischemia-reperfusion in the rat. <i>Journal of Applied Physiology</i> , 2001, 91, 2205-2212. | 2.5 | 160 |
| 32 | Prolonged mechanical ventilation alters diaphragmatic structure and function. <i>Critical Care Medicine</i> , 2009, 37, S347-S353. | 0.9 | 159 |
| 33 | Mechanical ventilation-induced oxidative stress in the diaphragm. <i>Journal of Applied Physiology</i> , 2003, 95, 1116-1124. | 2.5 | 155 |
| 34 | Both high level pressure support ventilation and controlled mechanical ventilation induce diaphragm dysfunction and atrophy. <i>Critical Care Medicine</i> , 2012, 40, 1254-1260. | 0.9 | 151 |
| 35 | Mechanistic Links Between Oxidative Stress and Disuse Muscle Atrophy. <i>Antioxidants and Redox Signaling</i> , 2011, 15, 2519-2528. | 5.4 | 150 |
| 36 | Short-term exercise training can improve myocardial tolerance to I/R without elevation in heat shock proteins. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2001, 281, H1346-H1352. | 3.2 | 139 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Redox control of skeletal muscle atrophy. <i>Free Radical Biology and Medicine</i> , 2016, 98, 208-217. | 2.9 | 138 |
| 38 | Mechanical Ventilation Depresses Protein Synthesis in the Rat Diaphragm. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2004, 170, 994-999. | 5.6 | 130 |
| 39 | Ischemia-reperfusion-induced calpain activation and SERCA2a degradation are attenuated by exercise training and calpain inhibition. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006, 290, H128-H136. | 3.2 | 130 |
| 40 | Exercise induces a cardiac mitochondrial phenotype that resists apoptotic stimuli. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008, 294, H928-H935. | 3.2 | 130 |
| 41 | Ventilator-induced diaphragm dysfunction: cause and effect. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2013, 305, R464-R477. | 1.8 | 128 |
| 42 | Disease-Induced Skeletal Muscle Atrophy and Fatigue. <i>Medicine and Science in Sports and Exercise</i> , 2016, 48, 2307-2319. | 0.4 | 128 |
| 43 | Mitochondrial dysfunction induces muscle atrophy during prolonged inactivity: A review of the causes and effects. <i>Archives of Biochemistry and Biophysics</i> , 2019, 662, 49-60. | 3.0 | 128 |
| 44 | Exercise training improves myocardial tolerance to in vivo ischemia-reperfusion in the rat. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 1998, 275, R1468-R1477. | 1.8 | 127 |
| 45 | Exercise-induced protection against myocardial apoptosis and necrosis: MnSOD, calcium handling proteins, and calpain. <i>FASEB Journal</i> , 2008, 22, 2862-2871. | 0.5 | 121 |
| 46 | Loss of exercise-induced cardioprotection after cessation of exercise. <i>Journal of Applied Physiology</i> , 2004, 96, 1299-1305. | 2.5 | 119 |
| 47 | Exercise and cardioprotection. <i>Current Opinion in Cardiology</i> , 2002, 17, 495-502. | 1.8 | 114 |
| 48 | Immobilization-induced activation of key proteolytic systems in skeletal muscles is prevented by a mitochondria-targeted antioxidant. <i>Journal of Applied Physiology</i> , 2013, 115, 529-538. | 2.5 | 114 |
| 49 | Subsarcolemmal and intermyofibrillar mitochondria proteome differences disclose functional specializations in skeletal muscle. <i>Proteomics</i> , 2010, 10, 3142-3154. | 2.2 | 109 |
| 50 | Exercise training provides cardioprotection against ischemia-reperfusion induced apoptosis in young and old animals. <i>Experimental Gerontology</i> , 2005, 40, 416-425. | 2.8 | 105 |
| 51 | Exercise-induced alterations in skeletal muscle myosin heavy chain phenotype: dose-response relationship. <i>Journal of Applied Physiology</i> , 1999, 86, 1002-1008. | 2.5 | 104 |
| 52 | Exercise protects against doxorubicin-induced oxidative stress and proteolysis in skeletal muscle. <i>Journal of Applied Physiology</i> , 2011, 110, 935-942. | 2.5 | 102 |
| 53 | Exercise protects against doxorubicin-induced markers of autophagy signaling in skeletal muscle. <i>Journal of Applied Physiology</i> , 2011, 111, 1190-1198. | 2.5 | 100 |
| 54 | Increased mitochondrial emission of reactive oxygen species and calpain activation are required for doxorubicin-induced cardiac and skeletal muscle myopathy. <i>Journal of Physiology</i> , 2015, 593, 2017-2036. | 2.9 | 99 |

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|----|---|-----|-----------|
| 55 | Cross-talk between the calpain and caspase-3 proteolytic systems in the diaphragm during prolonged mechanical ventilation. <i>Critical Care Medicine</i> , 2012, 40, 1857-1863. | 0.9 | 98 |
| 56 | ANTIOXIDANTS AND EXERCISE. <i>Clinics in Sports Medicine</i> , 1999, 18, 525-536. | 1.8 | 97 |
| 57 | Rocuronium exacerbates mechanical ventilation-induced diaphragm dysfunction in rats. <i>Critical Care Medicine</i> , 2006, 34, 3018-3023. | 0.9 | 97 |
| 58 | Mechanical ventilation induces alterations of the ubiquitin-proteasome pathway in the diaphragm. <i>Journal of Applied Physiology</i> , 2005, 98, 1314-1321. | 2.5 | 96 |
| 59 | Leupeptin Inhibits Ventilator-induced Diaphragm Dysfunction in Rats. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2007, 175, 1134-1138. | 5.6 | 94 |
| 60 | Diaphragm and ventilatory dysfunction during cancer cachexia. <i>FASEB Journal</i> , 2013, 27, 2600-2610. | 0.5 | 90 |
| 61 | Oxygen cost of treadmill running in 24-month-old Fischer-344 rats. <i>Medicine and Science in Sports and Exercise</i> , 1993, 25, 1259-1264. | 0.4 | 88 |
| 62 | Exercise training increases heat shock protein in skeletal muscles of old rats. <i>Medicine and Science in Sports and Exercise</i> , 2001, 33, 729-734. | 0.4 | 87 |
| 63 | Xanthine oxidase contributes to mechanical ventilation-induced diaphragmatic oxidative stress and contractile dysfunction. <i>Journal of Applied Physiology</i> , 2009, 106, 385-394. | 2.5 | 87 |
| 64 | Regional training-induced alterations in diaphragmatic oxidative and antioxidant enzymes. <i>Respiration Physiology</i> , 1994, 95, 227-237. | 2.7 | 86 |
| 65 | Short-term exercise training improves diaphragm antioxidant capacity and endurance. <i>European Journal of Applied Physiology and Occupational Physiology</i> , 2000, 81, 67-74. | 1.2 | 86 |
| 66 | N-Acetylcysteine protects the rat diaphragm from the decreased contractility associated with controlled mechanical ventilation*. <i>Critical Care Medicine</i> , 2011, 39, 777-782. | 0.9 | 83 |
| 67 | Crosstalk between autophagy and oxidative stress regulates proteolysis in the diaphragm during mechanical ventilation. <i>Free Radical Biology and Medicine</i> , 2018, 115, 179-190. | 2.9 | 83 |
| 68 | Mechanisms of Exercise-Induced Cardioprotection. <i>Physiology</i> , 2014, 29, 27-38. | 3.1 | 82 |
| 69 | Exercise, heat shock proteins, and myocardial protection from I-R injury. <i>Medicine and Science in Sports and Exercise</i> , 2001, 33, 386-392. | 0.4 | 81 |
| 70 | Exercise training induces a cardioprotective phenotype and alterations in cardiac subsarcolemmal and intermyofibrillar mitochondrial proteins. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009, 297, H144-H152. | 3.2 | 81 |
| 71 | Apocynin attenuates diaphragm oxidative stress and protease activation during prolonged mechanical ventilation. <i>Critical Care Medicine</i> , 2009, 37, 1373-1379. | 0.9 | 78 |
| 72 | Exercise Protects Cardiac Mitochondria against Ischemia-Induced Reperfusion Injury. <i>Medicine and Science in Sports and Exercise</i> , 2012, 44, 397-405. | 0.4 | 77 |

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|----|--|-----|-----------|
| 73 | Short-term exercise training protects against doxorubicin-induced cardiac mitochondrial damage independent of HSP72. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010, 299, H1515-H1524. | 3.2 | 75 |
| 74 | Effects of clenbuterol on contractile and biochemical properties of skeletal muscle. <i>Medicine and Science in Sports and Exercise</i> , 1996, 28, 669-676. | 0.4 | 75 |
| 75 | Exercise training reduces myocardial lipid peroxidation following short-term ischemia-reperfusion. <i>Medicine and Science in Sports and Exercise</i> , 1998, 30, 1211-1216. | 0.4 | 74 |
| 76 | Calpain and caspase-3 play required roles in immobilization-induced limb muscle atrophy. <i>Journal of Applied Physiology</i> , 2013, 114, 1482-1489. | 2.5 | 72 |
| 77 | MnSOD antisense treatment and exercise-induced protection against arrhythmias. <i>Free Radical Biology and Medicine</i> , 2004, 37, 1360-1368. | 2.9 | 71 |
| 78 | Effects of short-term endurance exercise training on acute doxorubicin-induced FoxO transcription in cardiac and skeletal muscle. <i>Journal of Applied Physiology</i> , 2014, 117, 223-230. | 2.5 | 71 |
| 79 | Effects of vitamin E and l-lipoic acid on skeletal muscle contractile properties. <i>Journal of Applied Physiology</i> , 2001, 90, 1424-1430. | 2.5 | 70 |
| 80 | Exercise-induced HSP-72 elevation and cardioprotection against infarct and apoptosis. <i>Journal of Applied Physiology</i> , 2007, 103, 1056-1062. | 2.5 | 70 |
| 81 | Can Antioxidants Protect Against Disuse Muscle Atrophy?. <i>Sports Medicine</i> , 2014, 44, 155-165. | 6.5 | 70 |
| 82 | Infusions of rocuronium and cisatracurium exert different effects on rat diaphragm function. <i>Intensive Care Medicine</i> , 2007, 33, 872-879. | 8.2 | 69 |
| 83 | Diaphragm Unloading via Controlled Mechanical Ventilation Alters the Gene Expression Profile. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2005, 172, 1267-1275. | 5.6 | 67 |
| 84 | Endurance exercise attenuates ventilator-induced diaphragm dysfunction. <i>Journal of Applied Physiology</i> , 2012, 112, 501-510. | 2.5 | 65 |
| 85 | Experimental Guidelines for Studies Designed to Investigate the Impact of Antioxidant Supplementation on Exercise Performance. <i>International Journal of Sport Nutrition and Exercise Metabolism</i> , 2010, 20, 2-14. | 2.1 | 63 |
| 86 | Caffeine and Exercise Performance. <i>Sports Medicine</i> , 1993, 15, 14-23. | 6.5 | 62 |
| 87 | Aging, Exercise, and Cardioprotection. <i>Annals of the New York Academy of Sciences</i> , 2004, 1019, 462-470. | 3.8 | 61 |
| 88 | Nuclear factor- κ B signaling contributes to mechanical ventilation-induced diaphragm weakness*. <i>Critical Care Medicine</i> , 2012, 40, 927-934. | 0.9 | 61 |
| 89 | Oxidative Stress, Antioxidant Status, and the Contracting Diaphragm. <i>Applied Physiology, Nutrition, and Metabolism</i> , 1998, 23, 23-55. | 1.7 | 59 |
| 90 | Effects of vitamin E deficiency on fatigue and muscle contractile properties. <i>European Journal of Applied Physiology</i> , 2002, 87, 272-277. | 2.5 | 59 |

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|-----|--|-----|-----------|
| 91 | Exercise-induced hypoxemia in athletes: Role of inadequate hyperventilation. <i>European Journal of Applied Physiology and Occupational Physiology</i> , 1992, 65, 37-42. | 1.2 | 58 |
| 92 | Increased antioxidant capacity does not attenuate muscle atrophy caused by unweighting. <i>Journal of Applied Physiology</i> , 2002, 93, 1959-1965. | 2.5 | 58 |
| 93 | Effects of Acute Administration of Corticosteroids during Mechanical Ventilation on Rat Diaphragm. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2008, 178, 1219-1226. | 5.6 | 58 |
| 94 | Cumulative Effects of Aging and Mechanical Ventilation on In Vitro Diaphragm Function. <i>Chest</i> , 2003, 124, 2302-2308. | 0.8 | 57 |
| 95 | Ischemia-Reperfusion-Induced Cardiac Injury. <i>Medicine and Science in Sports and Exercise</i> , 2007, 39, 1529-1539. | 0.4 | 57 |
| 96 | Effects of Controlled Mechanical Ventilation on Sepsis-Induced Diaphragm Dysfunction in Rats. <i>Critical Care Medicine</i> , 2014, 42, e772-e782. | 0.9 | 55 |
| 97 | Age and attenuation of exercise-induced myocardial HSP72 accumulation. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2003, 285, H1609-H1615. | 3.2 | 54 |
| 98 | Elevated MnSOD is not required for exercise-induced cardioprotection against myocardial stunning. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004, 287, H975-H980. | 3.2 | 54 |
| 99 | Improved cardiac performance after ischemia in aged rats supplemented with vitamin E and Î±-lipoic acid. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2000, 279, R2149-R2155. | 1.8 | 53 |
| 100 | Mechanical ventilation reduces rat diaphragm blood flow and impairs oxygen delivery and uptake*. <i>Critical Care Medicine</i> , 2012, 40, 2858-2866. | 0.9 | 53 |
| 101 | Adaptive strategies of respiratory muscles in response to endurance exercise. <i>Medicine and Science in Sports and Exercise</i> , 1996, 28, 1115-1122. | 0.4 | 53 |
| 102 | Exercise-Induced Hypoxaemia in Elite Endurance Athletes. <i>Sports Medicine</i> , 1993, 16, 14-22. | 6.5 | 50 |
| 103 | COPD elicits remodeling of the diaphragm and vastus lateralis muscles in humans. <i>Journal of Applied Physiology</i> , 2013, 114, 1235-1245. | 2.5 | 50 |
| 104 | Short-Duration Mechanical Ventilation Enhances Diaphragmatic Fatigue Resistance but Impairs Force Production. <i>Chest</i> , 2003, 123, 195-201. | 0.8 | 49 |
| 105 | Antioxidant and Vitamin D supplements for athletes: Sense or nonsense?. <i>Journal of Sports Sciences</i> , 2011, 29, S47-S55. | 2.0 | 48 |
| 106 | Exercise training protects against contraction-induced lipid peroxidation in the diaphragm. <i>European Journal of Applied Physiology</i> , 1999, 79, 268-273. | 2.5 | 46 |
| 107 | Metabolic and antioxidant enzyme activities in the diaphragm: effects of acute exercise. <i>Respiration Physiology</i> , 1994, 96, 139-149. | 2.7 | 43 |
| 108 | Diaphragmatic fiber type specific adaptation to endurance exercise. <i>Respiration Physiology</i> , 1992, 89, 195-207. | 2.7 | 40 |

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|-----|---|-----|-----------|
| 109 | Partial Support Ventilation and Mitochondrial-Targeted Antioxidants Protect against Ventilator-Induced Decreases in Diaphragm Muscle Protein Synthesis. <i>PLoS ONE</i> , 2015, 10, e0137693. | 2.5 | 40 |
| 110 | The Role of Calpains in Skeletal Muscle Remodeling with Exercise and Inactivity-induced Atrophy. <i>International Journal of Sports Medicine</i> , 2020, 41, 994-1008. | 1.7 | 40 |
| 111 | Clenbuterol-induced fiber type transition in the soleus of adult rats. <i>European Journal of Applied Physiology and Occupational Physiology</i> , 1996, 74, 391-396. | 1.2 | 39 |
| 112 | Mechanism of specific force deficit in the senescent rat diaphragm. <i>Respiration Physiology</i> , 1997, 107, 149-155. | 2.7 | 39 |
| 113 | Adaptation of Upper Airway Muscles to Chronic Endurance Exercise. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2002, 166, 287-293. | 5.6 | 39 |
| 114 | The Renin-Angiotensin System and Skeletal Muscle. <i>Exercise and Sport Sciences Reviews</i> , 2018, 46, 205-214. | 3.0 | 39 |
| 115 | Estrogen Administration Attenuates Immobilization-Induced Skeletal Muscle Atrophy in Male Rats. <i>Journal of Physiological Sciences</i> , 2006, 56, 393-399. | 2.1 | 37 |
| 116 | Mitochondrial Dysfunction Is a Common Denominator Linking Skeletal Muscle Wasting Due to Disease, Aging, and Prolonged Inactivity. <i>Antioxidants</i> , 2021, 10, 588. | 5.1 | 37 |
| 117 | Inhibition of Janus kinase signaling during controlled mechanical ventilation prevents ventilation-induced diaphragm dysfunction. <i>FASEB Journal</i> , 2014, 28, 2790-2803. | 0.5 | 36 |
| 118 | Exercise Training-Induced Changes in Respiratory Muscles. <i>Sports Medicine</i> , 1997, 24, 120-131. | 6.5 | 35 |
| 119 | Inhibition of Forkhead BoxO-specific Transcription Prevents Mechanical Ventilation-induced Diaphragm Dysfunction. <i>Critical Care Medicine</i> , 2015, 43, e133-e142. | 0.9 | 32 |
| 120 | Redox Control of Proteolysis During Inactivity-Induced Skeletal Muscle Atrophy. <i>Antioxidants and Redox Signaling</i> , 2020, 33, 559-569. | 5.4 | 32 |
| 121 | Myosin phenotype and bioenergetic characteristics of rat respiratory muscles. <i>Medicine and Science in Sports and Exercise</i> , 1997, 29, 1573-1579. | 0.4 | 32 |
| 122 | High intensity exercise training-induced metabolic alterations in respiratory muscles. <i>Respiration Physiology</i> , 1992, 89, 169-177. | 2.7 | 31 |
| 123 | Increased SOD2 in the diaphragm contributes to exercise-induced protection against ventilator-induced diaphragm dysfunction. <i>Redox Biology</i> , 2019, 20, 402-413. | 9.0 | 31 |
| 124 | Overexpression of antioxidant enzymes in diaphragm muscle does not alter contraction-induced fatigue or recovery. <i>Experimental Physiology</i> , 2010, 95, 222-231. | 2.0 | 30 |
| 125 | Inhibition of the Ubiquitin-Proteasome Pathway Does Not Protect against Ventilator-induced Accelerated Proteolysis or Atrophy in the Diaphragm. <i>Anesthesiology</i> , 2014, 121, 115-126. | 2.5 | 30 |
| 126 | Global Proteome Changes in the Rat Diaphragm Induced by Endurance Exercise Training. <i>PLoS ONE</i> , 2017, 12, e0171007. | 2.5 | 29 |

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|-----|---|-----|-----------|
| 127 | Cervical spinal cord injury exacerbates ventilator-induced diaphragm dysfunction. <i>Journal of Applied Physiology</i> , 2016, 120, 166-177. | 2.5 | 28 |
| 128 | Short-Term Exercise Does Not Increase ER Stress Protein Expression in Cardiac Muscle. <i>Medicine and Science in Sports and Exercise</i> , 2007, 39, 1522-1528. | 0.4 | 27 |
| 129 | AT ₁ receptor blocker losartan protects against mechanical ventilation-induced diaphragmatic dysfunction. <i>Journal of Applied Physiology</i> , 2015, 119, 1033-1041. | 2.5 | 27 |
| 130 | Sugar or fat: The metabolic choice of the trained heart. <i>Metabolism: Clinical and Experimental</i> , 2018, 87, 98-104. | 3.4 | 27 |
| 131 | Diaphragm contractile dysfunction in MyoD gene-inactivated mice. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2002, 283, R583-R590. | 1.8 | 26 |
| 132 | Endurance training reduces the rate of diaphragm fatigue in vitro. <i>Medicine and Science in Sports and Exercise</i> , 1999, 31, 1605. | 0.4 | 26 |
| 133 | Mechanical Ventilation-Induced Oxidative Stress in the Diaphragm. <i>Chest</i> , 2011, 139, 816-824. | 0.8 | 24 |
| 134 | CrossTalk proposal: Mechanical ventilation-induced diaphragm atrophy is primarily due to inactivity. <i>Journal of Physiology</i> , 2013, 591, 5255-5257. | 2.9 | 24 |
| 135 | Negative Pressure Ventilation and Positive Pressure Ventilation Promote Comparable Levels of Ventilator-induced Diaphragmatic Dysfunction in Rats. <i>Anesthesiology</i> , 2013, 119, 652-662. | 2.5 | 24 |
| 136 | Effects of exercise preconditioning and HSP72 on diaphragm muscle function during mechanical ventilation. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2019, 10, 767-781. | 7.3 | 24 |
| 137 | Exercise does not increase cyclooxygenase-2 myocardial levels in young or senescent hearts. <i>Journal of Physiological Sciences</i> , 2010, 60, 181-186. | 2.1 | 23 |
| 138 | Reloading the Diaphragm Following Mechanical Ventilation Does Not Promote Injury. <i>Chest</i> , 2005, 127, 2204-2210. | 0.8 | 22 |
| 139 | Corticosteroid effects on ventilator-induced diaphragm dysfunction in anesthetized rats depend on the dose administered. <i>Respiratory Research</i> , 2010, 11, 178. | 3.6 | 22 |
| 140 | Mechanisms of exercise-induced preconditioning in skeletal muscles. <i>Redox Biology</i> , 2020, 35, 101462. | 9.0 | 22 |
| 141 | Calpains play an essential role in mechanical ventilation-induced diaphragmatic weakness and mitochondrial dysfunction. <i>Redox Biology</i> , 2021, 38, 101802. | 9.0 | 22 |
| 142 | Endurance exercise protects skeletal muscle against both doxorubicin-induced and inactivity-induced muscle wasting. <i>Pflügers Archiv European Journal of Physiology</i> , 2019, 471, 441-453. | 2.8 | 20 |
| 143 | Diaphragmatic nitric oxide synthase is not induced during mechanical ventilation. <i>Journal of Applied Physiology</i> , 2007, 102, 157-162. | 2.5 | 19 |
| 144 | Recovery of Diaphragm Function following Mechanical Ventilation in a Rodent Model. <i>PLoS ONE</i> , 2014, 9, e87460. | 2.5 | 18 |

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|-----|--|-----|-----------|
| 145 | Exercise: Teaching myocytes new tricks. <i>Journal of Applied Physiology</i> , 2017, 123, 460-472. | 2.5 | 17 |
| 146 | Redox signaling regulates skeletal muscle remodeling in response to exercise and prolonged inactivity. <i>Redox Biology</i> , 2022, 54, 102374. | 9.0 | 17 |
| 147 | Hemodynamic and oxidative mechanisms of tourniquet-induced muscle injury: near-infrared spectroscopy for the orthopedics setting. <i>Journal of Biomedical Optics</i> , 2012, 17, 081408. | 2.6 | 15 |
| 148 | Delta Opioid Receptors: The Link between Exercise and Cardioprotection. <i>PLoS ONE</i> , 2014, 9, e113541. | 2.5 | 15 |
| 149 | Heat stress protects against mechanical ventilation-induced diaphragmatic atrophy. <i>Journal of Applied Physiology</i> , 2014, 117, 518-524. | 2.5 | 15 |
| 150 | Exercise and oxidative stress. <i>Journal of Physiology</i> , 2016, 594, 5079-5080. | 2.9 | 15 |
| 151 | Positive end-expiratory airway pressure does not aggravate ventilator-induced diaphragmatic dysfunction in rabbits. <i>Critical Care</i> , 2014, 18, 494. | 5.8 | 14 |
| 152 | Endurance training-induced increases in expiratory muscle oxidative capacity. <i>Medicine and Science in Sports and Exercise</i> , 1992, 24, 551-555. | 0.4 | 13 |
| 153 | Delivery of Recombinant Adeno-Associated Virus Vectors to Rat Diaphragm Muscle via Direct Intramuscular Injection. <i>Human Gene Therapy Methods</i> , 2013, 24, 364-371. | 2.1 | 13 |
| 154 | Repeated exposure to heat stress results in a diaphragm phenotype that resists ventilator-induced diaphragm dysfunction. <i>Journal of Applied Physiology</i> , 2015, 119, 1023-1031. | 2.5 | 13 |
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