W Bradley Nelson

List of Publications by Year
in descending order

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40 papers	2,045 citations	394421 19 h-index	526287 27 g-index
40 all docs	40 docs citations	40 times ranked	2521 citing authors

#	Article	IF	Citations
1	Exercise-induced oxidative stress in humans: Cause and consequences. Free Radical Biology and Medicine, 2011, 51, 942-950.	2.9	340
2	Mitochondria-targeted antioxidants protect against mechanical ventilation-induced diaphragm weakness*. Critical Care Medicine, 2011, 39, 1749-1759.	0.9	231
3	Mechanical ventilation induces diaphragmatic mitochondrial dysfunction and increased oxidant production. Free Radical Biology and Medicine, 2009, 46, 842-850.	2.9	185
4	Oxidative stress is required for mechanical ventilation-induced protease activation in the diaphragm. Journal of Applied Physiology, 2010, 108, 1376-1382.	2.5	166
5	Oxidation enhances myofibrillar protein degradation via calpain and caspase-3. Free Radical Biology and Medicine, 2010, 49, 1152-1160.	2.9	165
6	Both high level pressure support ventilation and controlled mechanical ventilation induce diaphragm dysfunction and atrophy. Critical Care Medicine, 2012, 40, 1254-1260.	0.9	151
7	Extracellular matrix remodeling and its contribution to protective adaptation following lengthening contractions in human muscle. FASEB Journal, 2015, 29, 2894-2904.	0.5	107
8	Cross-talk between the calpain and caspase-3 proteolytic systems in the diaphragm during prolonged mechanical ventilation. Critical Care Medicine, 2012, 40, 1857-1863.	0.9	98
9	Xanthine oxidase contributes to mechanical ventilation-induced diaphragmatic oxidative stress and contractile dysfunction. Journal of Applied Physiology, 2009, 106, 385-394.	2.5	87
10	Crosstalk between autophagy and oxidative stress regulates proteolysis in the diaphragm during mechanical ventilation. Free Radical Biology and Medicine, 2018, 115, 179-190.	2.9	83
11	Endurance exercise attenuates ventilator-induced diaphragm dysfunction. Journal of Applied Physiology, 2012, 112, 501-510.	2.5	65
12	Nuclear factor-ÎºB signaling contributes to mechanical ventilation-induced diaphragm weakness*. Critical Care Medicine, 2012, 40, 927-934.	0.9	61
13	Skeletal Muscle Inflammation Following Repeated Bouts of Lengthening Contractions in Humans. Frontiers in Physiology, 2015, 6, 424.	2.8	49
14	Antioxidant and Vitamin D supplements for athletes: Sense or nonsense?. Journal of Sports Sciences, 2011, 29, S47-S55.	2.0	48
15	Partial Support Ventilation and Mitochondrial-Targeted Antioxidants Protect against Ventilator-Induced Decreases in Diaphragm Muscle Protein Synthesis. PLoS ONE, 2015, 10, e0137693.	2.5	40
16	Inhibition of Forkhead BoxOâ€“Specific Transcription Prevents Mechanical Ventilationâ€“Induced Diaphragm Dysfunction. Critical Care Medicine, 2015, 43, e133-e142.	0.9	32
17	Inhibition of the Ubiquitinâ€“Proteasome Pathway Does Not Protect against Ventilator-induced Accelerated Proteolysis or Atrophy in the Diaphragm. Anesthesiology, 2014, 121, 115-126.	2.5	30
18	Negative Pressure Ventilation and Positive Pressure Ventilation Promote Comparable Levels of Ventilator-induced Diaphragmatic Dysfunction in Rats. Anesthesiology, 2013, 119, 652-662.	2.5	24

#	Article	IF	Citations
19	Effects of exercise preconditioning and HSP72 on diaphragm muscle function during mechanical ventilation. Journal of Cachexia, Sarcopenia and Muscle, 2019, 10, 767-781.	7.3	24
20	Adaptations to high-intensity intermittent exercise in rodents. Journal of Applied Physiology, 2009, 107, 749-754.	2.5	17
21	Delivery of Recombinant Adeno-Associated Virus Vectors to Rat Diaphragm Muscle via Direct Intramuscular Injection. Human Gene Therapy Methods, 2013, 24, 364-371.	2.1	13
22	BJSM reviews: A-Z of nutritional supplements: dietary supplements, sports nutrition foods and Ergogenic aids for health and performance Part 3. British Journal of Sports Medicine, 2009, 43, 890-892.	6.7	10
23	Cutaneous Vasodilation during Local Heating: Role of Local Cutaneous Thermosensation. Frontiers in Physiology, 2016, 7, 622.	2.8	9
24	Passive muscle heating attenuates the decline in vascular function caused by limb disuse. Journal of Physiology, 2021, 599, 4581-4596.	2.9	6
25	A Mitochondrial-targeted Antioxidant Protects against Mechanical Ventilation-induced Diaphragm Weakness. Medicine and Science in Sports and Exercise, 2010, 42, 17-18.	0.4	2
26	The Effect of High Intensity Intermittent Exercise on Plasma Erythropoietin. Medicine and Science in Sports and Exercise, 2006, 38, S88.	0.4	1
27	Calpain And Caspase-3 Participate In Regulatory Crosstalk During Disuse Muscle Atrophy. Medicine and Science in Sports and Exercise, 2010, 42, 18.	0.4	1
28	Persistent Hypohydration in College Football Players During Double Session Workouts. Medicine and Science in Sports and Exercise, 2006, 38, S176.	0.4	0
29	ARE ANTIOXIDANT SUPPLEMENTS REQUIRED FOR ACTIVE ADULTS?. ACSM's Health and Fitness Journal, 2010, 14, 11-14.	0.6	0
30	Oxidative stress enhances myofibrillar protein degradation via calpain and caspaseâ€3. FASEB Journal, 2010, 24, 1046.14.	0.5	0
31	Oxidative stress is required for mechanical ventilationâ€induced protease activation in the diaphragm. FASEB Journal, 2010, 24, 1046.13.	0.5	0
32	NF-Î°B Contributes to Mechanical Ventilation-induced Diaphragm Weakness. Medicine and Science in Sports and Exercise, 2010, 42, 19-20.	0.4	0
33	Pressure Support Ventilation Promotes Diaphragmatic Atrophy and Weakness. Medicine and Science in Sports and Exercise, 2010, 42, 20.	0.4	0
34	Endurance exercise attenuates mechanical ventilationâ€induced diaphragm weakness. FASEB Journal, 2011, 25, 1059.20.	0.5	0
35	Caspaseâ€3 is activated by intrinsic apoptotic pathways during mechanical ventilation. FASEB Journal, 2011, 25, .	0.5	0
36	Increased mitochondrial ROS production is required for ventilatorâ€induced myonuclear apoptosis in the diaphragm. FASEB Journal, 2012, 26, 1075.11.	0.5	0

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37	Administration of recombinant adenoâ€associated virus vector to the diaphragm through direct intramuscular injection. FASEB Journal, 2012, 26, 1075.21.	0.5	0
38	Impact of prolonged mechanical ventilation on diaphragmatic protein synthesis. FASEB Journal, 2013, 27, lb784.	0.5	0
39	FoxO transcription contributes to mechanical ventilationâ€induced diaphragm atrophy and contractile dysfunction. FASEB Journal, 2013, 27, 939.1.	0.5	0
40	Matrix metalloproteinaseâ€2 is not active in the diaphragm during mechanical ventilation. FASEB Journal, 2013, 27, lb779.	0.5	0