Randy D Trumbower

List of Publications by Year
in descending order

41 papers	1,458 citations	471509 17 h-index	434195 31 g-index
41 all docs	41 docs citations	41 times ranked	1236 citing authors

#	Article	IF	Citations
1	Therapeutic acute intermittent hypoxia: A translational roadmap for spinal cord injury and neuromuscular disease. Experimental Neurology, 2022, 347, 113891.	4.1	39
2	Caffeine Enhances Intermittent Hypoxia-Induced Gains in Walking Function for People with Chronic Spinal Cord Injury. Journal of Neurotrauma, 2022, 39, 1756-1763.	3.4	4
3	Daily acute intermittent hypoxia combined with walking practice enhances walking performance but not intralimb motor coordination in persons with chronic incomplete spinal cord injury. Experimental Neurology, 2021, 340, 113669.	4.1	18
4	Neural regulation of whole limb impedance: from measurements to mechanisms. Current Opinion in Physiology, 2021, 22, 100437.	1.8	2
5	Acute intermittent hypoxia boosts spinal plasticity in humans with tetraplegia. Experimental Neurology, 2021, 335, 113483.	4.1	27
6	A functional biomarker for intermittent hypoxia-induced walking recovery in persons with chronic spinal cord injury. Journal of the Neurological Sciences, 2021, 429, 118589.	0.6	0
7	Differential deficits in spatial and temporal interlimb coordination during walking in persons with incomplete spinal cord injury. Gait and Posture, 2020, 75, 121-128.	1.4	8
8	An automated pressure-swing absorption system to administer low oxygen therapy for persons with spinal cord injury. Experimental Neurology, 2020, 333, 113408.	4.1	8
9	Sleep-Disordered Breathing Is Associated with Acute Intermittent Hypoxia-Induced Motor Recovery in Persons with Spinal Cord Injury. , 2020, , .		0
10	Mild to Moderate Sleep Apnea Is Linked to Hypoxia-induced Motor Recovery after Spinal Cord Injury. American Journal of Respiratory and Critical Care Medicine, 2020, 202, 887-890.	5.6	15
11	Acute Intermittent Hypoxia as a Potential Adjuvant to Improve Walking Following Spinal Cord Injury: Evidence, Challenges, and Future Directions. Current Physical Medicine and Rehabilitation Reports, 2020, 8, 188-198.	0.8	12
12	Daily acute intermittent hypoxia to improve walking function in persons with subacute spinal cord injury: a randomized clinical trial study protocol. BMC Neurology, 2020, 20, 273.	1.8	9
13	A Forward Move: Interfacing Biotechnology and Physical Therapy In and Out of the Classroom. Physical Therapy, 2019, 99, 519-525.	2.4	2
14	Variability of Leg Kinematics during Overground Walking in Persons with Chronic Incomplete Spinal Cord Injury. Journal of Neurotrauma, 2018, 35, 2519-2529.	3.4	13
15	Constraints on Stance-Phase Force Production during Overground Walking in Persons with Chronic Incomplete Spinal Cord Injury. Journal of Neurotrauma, 2018, 35, 467-477.	3.4	6
16	Stimulating the Injured Spinal Cord: Plenty to Grasp. Journal of Neurotrauma, 2018, 35, 2143-2144.	3.4	0
17	Effects of acute intermittent hypoxia on hand use after spinal cord trauma. Neurology, 2017, 89, 1904-1907.	1.1	58
18	Interfacing Engineering Technology and Rehabilitation: A New Frontier for Physical Therapy. , 2017, , 1-12.		0

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19	Neural Stem Cell Therapy and Rehabilitation in the Central Nervous System: Emerging Partnerships. Physical Therapy, 2016, 96, 734-742.	2.4	21
20	Modulation of hand aperture during reaching in persons with incomplete cervical spinal cord injury. Experimental Brain Research, 2015, 233, 871-884.	1.5	8
21	Neuromechanical Principles Underlying Movement Modularity and Their Implications for Rehabilitation. Neuron, 2015, 86, 38-54.	8.1	305
22	Daily intermittent hypoxia enhances walking after chronic spinal cord injury. Neurology, 2014, 82, 104-113.	1.1	163
23	Neuromuscular constraints on muscle coordination during overground walking in persons with chronic incomplete spinal cord injury. Clinical Neurophysiology, 2014, 125, 2024-2035.	1.5	84
24	Introduction to Regenerative Medicine. , 2014, , 1-16.		0
25	Bilateral impairments in task-dependent modulation of the long-latency stretch reflex following stroke. Clinical Neurophysiology, 2013, 124, 1373-1380.	1.5	27
26	Influence of environmental stability on the regulation of end-point impedance during the maintenance of arm posture. Journal of Neurophysiology, 2013, 109, 1045-1054.	1.8	27
27	Exposure to Acute Intermittent Hypoxia Augments Somatic Motor Function in Humans With Incomplete Spinal Cord Injury. Neurorehabilitation and Neural Repair, 2012, 26, 163-172.	2.9	159
28	Interactions Between Limb and Environmental Mechanics Influence Stretch Reflex Sensitivity in the Human Arm. Journal of Neurophysiology, 2010, 103, 429-440.	1.8	87
29	Co-contraction modifies the stretch reflex elicited in muscles shortened by a joint perturbation. Experimental Brain Research, 2010, 207, 39-48.	1.5	34
30	Contributions of Altered Stretch Reflex Coordination to Arm Impairments Following Stroke. Journal of Neurophysiology, 2010, 104, 3612-3624.	1.8	63
31	Use of Self-Selected Postures to Regulate Multi-Joint Stiffness During Unconstrained Tasks. PLoS ONE, 2009, 4, e5411.	2.5	75
32	Effects of environmental instabilities on endpoint stiffness during the maintenance of human arm posture. , 2009, 2009, 5938-41.		11
33	Reflex modulation is linked to the orientation of arm mechanics relative to the environment. , 2008, 2008, 5350-3.		5
34	Altered multijoint reflex coordination is indicative of motor impairment level following stroke. , 2008, 2008, 3558-61.		12
35	Interactions With Compliant Loads Alter Stretch Reflex Gains But Not Intermuscular Coordination. Journal of Neurophysiology, 2008, 99, 2101-2113.	1.8	102
36	Identifying Offline Muscle Strength Profiles Sufficient for Short-Duration Fes-Lce Exercise: A Pac Learning Model Approach. Journal of Clinical Monitoring and Computing, 2006, 20, 209-220.	1.6	3

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37	Kinematic analyses of semireclined leg cycling in able-bodied and spinal cord injured individuals. Spinal Cord, 2005, 43, 543-549.	1.9	20
38	Leg Cycling Dynamics Of Individuals With Spinal Cord Injury During Stationary Leg Cycle Ergometry. Medicine and Science in Sports and Exercise, 2005, 37, S120.	0.4	0
39	Improving pedal power during semireclined leg cycling. IEEE Engineering in Medicine and Biology Magazine, 2004, 23, 62-71.	0.8	18
40	Virtual instruments in undergraduate biomedical engineering laboratories. IEEE Engineering in Medicine and Biology Magazine, 2003, 22, 101-110.	0.8	12
41	A Wearable Mixed Reality Platform to Augment Overground Walking: A Feasibility Study. Frontiers in Human Neuroscience, 0, 16, .	2.0	1