

Randy D Trumbower

List of Publications by Year in descending order

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Version: 2024-02-01

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	Neuromechanical Principles Underlying Movement Modularity and Their Implications for Rehabilitation. <i>Neuron</i> , 2015, 86, 38-54.	8.1	305
2	Daily intermittent hypoxia enhances walking after chronic spinal cord injury. <i>Neurology</i> , 2014, 82, 104-113.	1.1	163
3	Exposure to Acute Intermittent Hypoxia Augments Somatic Motor Function in Humans With Incomplete Spinal Cord Injury. <i>Neurorehabilitation and Neural Repair</i> , 2012, 26, 163-172.	2.9	159
4	Interactions With Compliant Loads Alter Stretch Reflex Gains But Not Intermuscular Coordination. <i>Journal of Neurophysiology</i> , 2008, 99, 2101-2113.	1.8	102
5	Interactions Between Limb and Environmental Mechanics Influence Stretch Reflex Sensitivity in the Human Arm. <i>Journal of Neurophysiology</i> , 2010, 103, 429-440.	1.8	87
6	Neuromuscular constraints on muscle coordination during overground walking in persons with chronic incomplete spinal cord injury. <i>Clinical Neurophysiology</i> , 2014, 125, 2024-2035.	1.5	84
7	Use of Self-Selected Postures to Regulate Multi-Joint Stiffness During Unconstrained Tasks. <i>PLoS ONE</i> , 2009, 4, e5411.	2.5	75
8	Contributions of Altered Stretch Reflex Coordination to Arm Impairments Following Stroke. <i>Journal of Neurophysiology</i> , 2010, 104, 3612-3624.	1.8	63
9	Effects of acute intermittent hypoxia on hand use after spinal cord trauma. <i>Neurology</i> , 2017, 89, 1904-1907.	1.1	58
10	Therapeutic acute intermittent hypoxia: A translational roadmap for spinal cord injury and neuromuscular disease. <i>Experimental Neurology</i> , 2022, 347, 113891.	4.1	39
11	Co-contraction modifies the stretch reflex elicited in muscles shortened by a joint perturbation. <i>Experimental Brain Research</i> , 2010, 207, 39-48.	1.5	34
12	Bilateral impairments in task-dependent modulation of the long-latency stretch reflex following stroke. <i>Clinical Neurophysiology</i> , 2013, 124, 1373-1380.	1.5	27
13	Influence of environmental stability on the regulation of end-point impedance during the maintenance of arm posture. <i>Journal of Neurophysiology</i> , 2013, 109, 1045-1054.	1.8	27
14	Acute intermittent hypoxia boosts spinal plasticity in humans with tetraplegia. <i>Experimental Neurology</i> , 2021, 335, 113483.	4.1	27
15	Neural Stem Cell Therapy and Rehabilitation in the Central Nervous System: Emerging Partnerships. <i>Physical Therapy</i> , 2016, 96, 734-742.	2.4	21
16	Kinematic analyses of semireclined leg cycling in able-bodied and spinal cord injured individuals. <i>Spinal Cord</i> , 2005, 43, 543-549.	1.9	20
17	Improving pedal power during semireclined leg cycling. <i>IEEE Engineering in Medicine and Biology Magazine</i> , 2004, 23, 62-71.	0.8	18
18	Daily acute intermittent hypoxia combined with walking practice enhances walking performance but not intralimb motor coordination in persons with chronic incomplete spinal cord injury. <i>Experimental Neurology</i> , 2021, 340, 113669.	4.1	18

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Virtual instruments in undergraduate biomedical engineering laboratories. IEEE Engineering in Medicine and Biology Magazine, 2003, 22, 101-110.	0.8	12
22	Altered multijoint reflex coordination is indicative of motor impairment level following stroke. , 2008, 2008, 3558-61.		12
23	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
24	Effects of environmental instabilities on endpoint stiffness during the maintenance of human arm posture. , 2009, 2009, 5938-41.		11
25	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
26	Modulation of hand aperture during reaching in persons with incomplete cervical spinal cord injury. Experimental Brain Research, 2015, 233, 871-884.	1.5	8
27	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
28	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
29	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
30	Reflex modulation is linked to the orientation of arm mechanics relative to the environment. , 2008, 2008, 5350-3.		5
31	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
32	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
33	A Forward Move: Interfacing Biotechnology and Physical Therapy In and Out of the Classroom. Physical Therapy, 2019, 99, 519-525.	2.4	2
34	Neural regulation of whole limb impedance: from measurements to mechanisms. Current Opinion in Physiology, 2021, 22, 100437.	1.8	2
35	A Wearable Mixed Reality Platform to Augment Overground Walking: A Feasibility Study. Frontiers in Human Neuroscience, 0, 16, .	2.0	1
36	Stimulating the Injured Spinal Cord: Plenty to Grasp. Journal of Neurotrauma, 2018, 35, 2143-2144.	3.4	0

#	ARTICLE	IF	CITATIONS
37	Sleep-Disordered Breathing Is Associated with Acute Intermittent Hypoxia-Induced Motor Recovery in Persons with Spinal Cord Injury. , 2020, , .		0
38	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
39	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
40	Introduction to Regenerative Medicine. , 2014, , 1-16.		0
41	Interfacing Engineering Technology and Rehabilitation: A New Frontier for Physical Therapy. , 2017, , 1-12.		0