John E Misiaszek

List of Publications by Year
in descending order

54 papers	1,889 citations	218677 26 h-index	254184 43 g-index
55 all docs	55 docs citations	55 times ranked	1416 citing authors

#	Article	IF	Citations
1	The H-reflex as a tool in neurophysiology: Its limitations and uses in understanding nervous system function. Muscle and Nerve, 2003, 28, 144-160.	2.2	289
2	SENSORI-SENSORY AFFERENT CONDITIONING WITH LEG MOVEMENT: GAIN CONTROL IN SPINAL REFLEX AND ASCENDING PATHS. Progress in Neurobiology, 1997, 51, 393-421.	5.7	226
3	Training of Walking Skills Overground and on the Treadmill: Case Series on Individuals With Incomplete Spinal Cord Injury. Physical Therapy, 2009, 89, 601-611.	2.4	81
4	Functional role of muscle reflexes for force generation in the decerebrate walking cat. Journal of Physiology, 2000, 525, 781-791.	2.9	78
5	The relationship between the kinematics of passive movement, the stretch of extensor muscles of the leg and the change induced in the gain of the soleus H reflex in humans. Brain Research, 1995, 672, 89-96.	2.2	63
6	Movement-induced gain modulation of somatosensory potentials and soleus H-reflexes evoked from the leg I. Kinaesthetic task demands. Experimental Brain Research, 1997, 115, 147-155.	1.5	59
7	Whole-Body Responses: Neural Control and Implications for Rehabilitation and Fall Prevention. Neuroscientist, 2009, 15, 36-46.	3.5	57
8	Postural uncertainty leads to dynamic control of cutaneous reflexes from the foot during human walking. Brain Research, 2005, 1062, 48-62.	2.2	55
9	Early activation of arm and leg muscles following pulls to the waist during walking. Experimental Brain Research, 2003, 151, 318-329.	1.5	48
10	Task specific adaptations in rat locomotion: Runway versus horizontal ladder. Behavioural Brain Research, 2006, 168, 272-279.	2.2	45
11	Crossed inhibition of the soleus H reflex during passive pedalling movement. Brain Research, 1998, 779, 280-284.	2.2	44
12	Weighted Vests, Stereotyped Behaviors and Arousal in Children with Autism. Journal of Autism and Developmental Disorders, 2011, 41, 805-814.	2.7	44
13	Locomotor-Like Rotation of Either Hip or Knee Inhibits Soleus H Reflexes in Humans. Somatosensory & Motor Research, 1993, 10, 357-364.	0.9	41
14	Functional electrical stimulation using microstimulators to correct foot drop: a case study. Canadian Journal of Physiology and Pharmacology, 2004, 82, 784-792.	1.4	40
15	Neural Control of Walking Balance. Exercise and Sport Sciences Reviews, 2006, 34, 128-134.	3.0	39
16	Long-lasting inhibition of the human soleus H reflex pathway after passive movement. Brain Research, 1995, 677, 69-81.	2.2	38
17	Retraining walking over ground in a powered exoskeleton after spinal cord injury: a prospective cohort study to examine functional gains and neuroplasticity. Journal of NeuroEngineering and Rehabilitation, 2019, 16, 145.	4.6	36
18	Adaptations in the Walking Pattern of Spinal Cord Injured Rats. Journal of Neurotrauma, 2006, 23, 897-907.	3.4	35

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19	Early corrective reactions of the leg to perturbations at the torso during walking in humans. Experimental Brain Research, 2000, 131, 511-523.	1.5	32
20	Context-Dependent Modulation of Interlimb Cutaneous Reflexes in Arm Muscles as a Function of Stability Threat During Walking. Journal of Neurophysiology, 2006, 96, 3096-3103.	1.8	32
21	Stretch of Quadriceps Inhibits the Soleus H Reflex During Locomotion in Decerebrate Cats. Journal of Neurophysiology, 1997, 78, 2975-2984.	1.8	31
22	Use-dependent gain change in the reflex contribution to extensor activity in walking cats. Brain Research, 2000, 883, 131-134.	2.2	31
23	Contribution of Hindpaw Cutaneous Inputs to the Control of Lateral Stability During Walking in the Cat. Journal of Neurophysiology, 2009, 102, 1711-1724.	1.8	31
24	Restricting arm use enhances compensatory reactions of leg muscles during walking. Experimental Brain Research, 2005, 161, 474-485.	1.5	30
25	The effects of lung volume recruitment on coughing and pulmonary function in patients with ALS. Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration, 2013, 14, 111-115.	1.7	30
26	Long-lasting conditioning of the human soleus H reflex following quadriceps tendon tap. Brain Research, 1995, 681, 197-200.	2.2	28
27	Mechanisms within the human spinal cord suppress fast reflexes to control the movement of the legs. Brain Research, 1995, 679, 255-260.	2.2	27
28	Effects of weighted vests on classroom behavior for children with autism and cognitive impairments. Research in Autism Spectrum Disorders, 2011, 5, 495-505.	1.5	27
29	Movement-induced modulation of soleus H reflexes with altered length of biarticular muscles. Brain Research, 1998, 795, 25-36.	2.2	25
30	Adaptation of Cutaneous Stumble Correction When Tripping Is Part of the Locomotor Environment. Journal of Neurophysiology, 2008, 99, 2789-2797.	1.8	23
31	Movement-induced gain modulation of somatosensory potentials and soleus H-reflexes evoked from the leg II. Correlation with rate of stretch of extensor muscles of the leg. Experimental Brain Research, 1997, 115, 156-164.	1.5	22
32	Self-directed rehabilitation training intensity thresholds for efficient recovery of skilled forelimb function in rats with cervical spinal cord injury. Experimental Neurology, 2021, 339, 113543.	4.1	21
33	Control of Frontal Plane Motion of the Hindlimbs in the Unrestrained Walking Cat. Journal of Neurophysiology, 2006, 96, 1816-1828.	1.8	20
34	The contribution of light touch sensory cues to corrective reactions during treadmill locomotion. Experimental Brain Research, 2013, 226, 575-584.	1.5	19
35	Phase-specific modulation of the soleus H-reflex as a function of threat to stability during walking. Experimental Brain Research, 2007, 181, 665-672.	1.5	17
36	Modulation of H reflexes in human tibialis anterior muscle with passive movement. Brain Research, 1997, 766, 236-239.	2.2	15

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37	Automatic postural responses following rapid displacement of a light touch contact during standing. Neuroscience, 2016, 316, 1-12.	2.3	15
38	Movement-induced depression of soleus H reflexes is consistent in humans over the range of excitatory afferents involved. Brain Research, 1995, 702, 271-274.	2.2	14
39	Reflex pathways connect receptors in the human lower leg to the erector spinae muscles of the lower back. Experimental Brain Research, 2009, 196, 217-227.	1.5	14
40	The amplitude of interlimb cutaneous reflexes in the leg is influenced by fingertip touch and vision during treadmill locomotion. Experimental Brain Research, 2015, 233, 1773-1782.	1.5	10
41	Balance-corrective responses to unexpected perturbations at the arms during treadmill walking. Journal of Neurophysiology, 2014, 112, 1790-1800.	1.8	8
42	Balance reactions to light touch displacements when standing on foam. Neuroscience Letters, 2017, 639, 13-17.	2.1	8
43	The effect of light touch on the amplitude of cutaneous reflexes in the arms during treadmill walking. Experimental Brain Research, 2014, 232, 2967-2976.	1.5	7
44	Compensatory balance reactions during forward and backward walking on a treadmill. Gait and Posture, 2012, 35, 681-684.	1.4	6
45	Vibration-induced inhibition of the early components of the tibial nerve somatosensory evoked potential is mediated at a spinal synapse. Clinical Neurophysiology, 2001, 112, 324-329.	1.5	4
46	Walking delays anticipatory postural adjustments but not reaction times in a choice reaction task. Experimental Brain Research, 2005, 163, 440-444.	1.5	4
47	The effect of light touch on standing sway when the stability of the external touch reference becomes unreliable. Experimental Brain Research, 2019, 237, 663-672.	1.5	4
48	Lung volume recruitment improves volitional airway clearance in amyotrophic lateral sclerosis. Muscle and Nerve, 2021, 64, 676-682.	2.2	4
49	Effects of ankle extensor muscle afferent inputs on hip abductor and adductor activity in the decerebrate walking cat. Journal of Neurophysiology, 2012, 108, 3034-3042.	1.8	3
50	H-reflex modulation during reverse passive pedalling. Journal of Electromyography and Kinesiology, 1996, 6, 111-116.	1.7	2
51	Activation of ankle muscles following rapid displacement of a light touch contact during treadmill walking. Experimental Brain Research, 2018, 236, 563-576.	1.5	2
52	Influence of Pairing Startling Acoustic Stimuli with Postural Responses Induced by Light Touch Displacement. Applied Sciences (Switzerland), 2020, 10, 382.	2.5	2
53	Influence of a light touch reference on cutaneous reflexes from the hand during standing. Experimental Brain Research, 2021, 239, 787-796.	1.5	1
54	Coupling of single cutaneous afferents in the hand with ankle muscles, and their response to rapid light touch displacements. Journal of Neurophysiology, 2022, 127, 1040-1053.	1.8	1