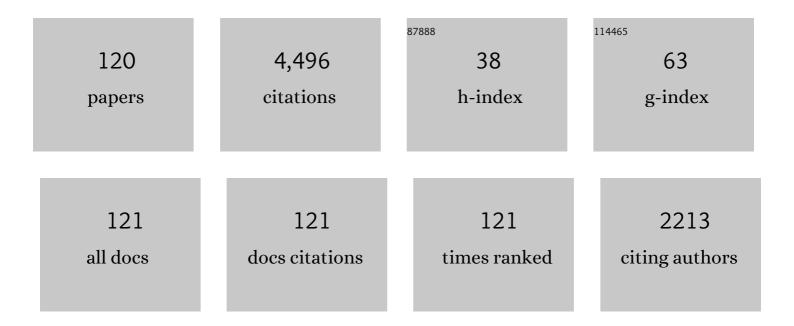
E Paul Zehr

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The Effect of Tai Chi Chuan Training on Stereotypic Behavior of Children with Autism Spectrum Disorder. Journal of Autism and Developmental Disorders, 2022, 52, 2180-2186.	2.7	7
2	1894 revisited: Cross-education of skilled muscular control in women and the importance of representation. PLoS ONE, 2022, 17, e0264686.	2.5	4
3	Five weeks of Yuishinkai karate training improves balance and neuromuscular function in older adults: a preliminary study. BMC Sports Science, Medicine and Rehabilitation, 2022, 14, 65.	1.7	5
4	Sensory enhancement of warm-up amplifies subsequent grip strength and cycling performance. European Journal of Applied Physiology, 2022, 122, 1695-1707.	2.5	3
5	Long-lasting changes in muscle activation and step cycle variables induced by repetitive sensory stimulation to discrete areas of the foot sole during walking. Journal of Neurophysiology, 2021, 125, 331-343.	1.8	2
6	Compression socks enhance sensory feedback to improve standing balance reactions and reflex control of walking. BMC Sports Science, Medicine and Rehabilitation, 2021, 13, 61.	1.7	2
7	lt's a no brainer: combat sports should be ground zero for research on concussion. British Journal of Sports Medicine, 2021, 55, 1434-1435.	6.7	2
8	Effects of chronic exposure to head impacts on the balance function of combat sports athletes. Translational Sports Medicine, 2021, 4, 798.	1.1	0
9	Harnessing the Power of a Novel Program for Dynamic Balance Perturbation with Supported Body Weight. Journal of Motor Behavior, 2020, 52, 643-655.	0.9	5
10	Enhanced somatosensory feedback modulates cutaneous reflexes in arm muscles during self-triggered or prolonged stimulation. Experimental Brain Research, 2020, 238, 295-304.	1.5	1
11	Modulation of cutaneous reflexes during sidestepping in adult humans. Experimental Brain Research, 2020, 238, 2229-2243.	1.5	4
12	What lies beneath the brain: Neural circuits involved in human locomotion. , 2020, , 385-418.		4
13	Plantarflexion force is amplified with sensory stimulation during ramping submaximal isometric contractions. Journal of Neurophysiology, 2020, 123, 1427-1438.	1.8	5
14	Repeated and patterned stimulation of cutaneous reflex pathways amplifies spinal cord excitability. Journal of Neurophysiology, 2020, 124, 342-351.	1.8	10
15	Exposure to impacts across a competitive rugby season impairs balance and neuromuscular function in female rugby athletes. BMJ Open Sport and Exercise Medicine, 2020, 6, e000740.	2.9	5
16	Understanding concussion knowledge and behavior among mixed martial arts, boxing, kickboxing, and Muay Thai athletes and coaches. Physician and Sportsmedicine, 2020, 48, 417-423.	2.1	24
17	Changing coupling between the arms and legs with slow walking speeds alters regulation of somatosensory feedback. Experimental Brain Research, 2020, 238, 1335-1349.	1.5	4
18	Effects of enhanced cutaneous sensory input on interlimb strength transfer of the wrist extensors. Physiological Reports, 2020, 8, e14406.	1.7	5

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19	We Are Upright-Walking Cats: Human Limbs as Sensory Antennae During Locomotion. Physiology, 2019, 34, 354-364.	3.1	31
20	Modulation of the Hoffmann reflex in the tibialis anterior with a change in posture. Physiological Reports, 2019, 7, e14179.	1.7	3
21	Exploiting cervicolumbar connections enhances short-term spinal cord plasticity induced by rhythmic movement. Experimental Brain Research, 2019, 237, 2319-2329.	1.5	8
22	Robot controlled, continuous passive movement of the ankle reduces spinal cord excitability in participants with spasticity: a pilot study. Experimental Brain Research, 2019, 237, 3207-3220.	1.5	10
23	Sensory enhancement amplifies interlimb cutaneous reflexes in wrist extensor muscles. Journal of Neurophysiology, 2019, 122, 2085-2094.	1.8	5
24	Effects of chronic ankle instability on cutaneous reflex modulation during walking. Experimental Brain Research, 2019, 237, 1959-1971.	1.5	7
25	Head Trauma Exposure in Mixed Martial Arts Varies According to Sex and Weight Class. Sports Health, 2019, 11, 280-285.	2.7	25
26	Training-Induced Neural Plasticity and Strength Are Amplified After Stroke. Exercise and Sport Sciences Reviews, 2019, 47, 223-229.	3.0	26
27	Fight, flight or finished: forced fitness behaviours in Game of Thrones. British Journal of Sports Medicine, 2019, 53, 576-580.	6.7	3
28	Effects of wrist position on reciprocal inhibition and cutaneous reflex amplitudes in forearm muscles. Neuroscience Letters, 2018, 677, 37-43.	2.1	2
29	Rhythmic arm cycling training improves walking and neurophysiological integrity in chronic stroke: the arms can give legs a helping hand in rehabilitation. Journal of Neurophysiology, 2018, 119, 1095-1112.	1.8	57
30	Time course of interlimb strength transfer after unilateral handgrip training. Journal of Applied Physiology, 2018, 125, 1594-1608.	2.5	18
31	Sherlock Holmes and the curious case of the human locomotor central pattern generator. Journal of Neurophysiology, 2018, 120, 53-77.	1.8	45
32	Effects of a compression garment on sensory feedback transmission in the human upper limb. Journal of Neurophysiology, 2018, 120, 186-195.	1.8	22
33	Unilateral wrist extension training after stroke improves strength and neural plasticity in both arms. Experimental Brain Research, 2018, 236, 2009-2021.	1.5	48
34	Use of the wii balance board to assess changes in postural balance across athletic season. British Journal of Sports Medicine, 2017, 51, A1.2-A1.	6.7	1
35	Beyond the Bottom of the Foot. Medicine and Science in Sports and Exercise, 2017, 49, 2439-2450.	0.4	8
36	Bilateral Reflex Fluctuations during Rhythmic Movement of Remote Limb Pairs. Frontiers in Human Neuroscience, 2017, 11, 355.	2.0	5

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37	Spinal Cord Excitability and Sprint Performance Are Enhanced by Sensory Stimulation During Cycling. Frontiers in Human Neuroscience, 2017, 11, 612.	2.0	12
38	Exploiting Interlimb Arm and Leg Connections for Walking Rehabilitation: A Training Intervention in Stroke. Neural Plasticity, 2016, 2016, 1-19.	2.2	31
39	Short-Term Plasticity in a Monosynaptic Reflex Pathway to Forearm Muscles after Continuous Robot-Assisted Passive Stepping. Frontiers in Human Neuroscience, 2016, 10, 368.	2.0	6
40	Long-Term Plasticity in Reflex Excitability Induced by Five Weeks of Arm and Leg Cycling Training after Stroke. Brain Sciences, 2016, 6, 54.	2.3	24
41	A common neural element receiving rhythmic arm and leg activity as assessed by reflex modulation in arm muscles. Journal of Neurophysiology, 2016, 115, 2065-2075.	1.8	9
42	Can concussion constrain the Caped Crusader?. British Journal of Sports Medicine, 2016, 50, 1481-1484.	6.7	2
43	Soleus Hoffmann reflex amplitudes are specifically modulated by cutaneous inputs from the arms and opposite leg during walking but not standing. Experimental Brain Research, 2016, 234, 2293-2304.	1.5	4
44	Regionally distinct cutaneous afferent populations contribute to reflex modulation evoked by stimulation of the tibial nerve during walking. Journal of Neurophysiology, 2016, 116, 183-190.	1.8	8
45	Neuromechanical interactions between the limbs during human locomotion: an evolutionary perspective with translation to rehabilitation. Experimental Brain Research, 2016, 234, 3059-3081.	1.5	83
46	With Great Power Comes Great Responsibility—A Personal Philosophy for Communicating Science in Society. ENeuro, 2016, 3, ENEURO.0200-16.2016.	1.9	5
47	Cross-education of strength and skill: an old idea with applications in the aging nervous system. Yale Journal of Biology and Medicine, 2016, 89, 81-6.	0.2	12
48	Reflex control of human locomotion: Existence, features and functions of common interneuronal system induced by multiple sensory inputs in humans. The Journal of Physical Fitness and Sports Medicine, 2015, 4, 197-211.	0.3	5
49	Future think: cautiously optimistic about brain augmentation using tissue engineering and machine interface. Frontiers in Systems Neuroscience, 2015, 9, 72.	2.5	6
50	The Potential Transformation of Our Species by Neural Enhancement. Journal of Motor Behavior, 2015, 47, 73-78.	0.9	13
51	The lingering effects of a busted myth — false time limits in stroke rehabilitation. Applied Physiology, Nutrition and Metabolism, 2015, 40, 858-861.	1.9	11
52	Convergence in Reflex Pathways from Multiple Cutaneous Nerves Innervating the Foot Depends upon the Number of Rhythmically Active Limbs during Locomotion. PLoS ONE, 2014, 9, e104910.	2.5	16
53	Preservation of common rhythmic locomotor control despite weakened supraspinal regulation after stroke. Frontiers in Integrative Neuroscience, 2014, 8, 95.	2.1	14
54	Avengers Assemble! Using pop-culture icons to communicate science. American Journal of Physiology - Advances in Physiology Education, 2014, 38, 118-123.	1.6	21

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55	Restoring Symmetry. Exercise and Sport Sciences Reviews, 2014, 42, 70-75.	3.0	67
56	Cutaneous stimulation of discrete regions of the sole during locomotion produces "sensory steering―of the foot. BMC Sports Science, Medicine and Rehabilitation, 2014, 6, 33.	1.7	64
57	Neuromechanical Interlimb Interactions and Rehabilitation of Walking after Stroke. Biosystems and Biorobotics, 2014, , 219-225.	0.3	0
58	Reliability of Multiple Baseline Measures for Locomotor Retraining after Stroke. Biosystems and Biorobotics, 2014, , 479-486.	0.3	6
59	High-intensity unilateral dorsiflexor resistance training results in bilateral neuromuscular plasticity after stroke. Experimental Brain Research, 2013, 225, 93-104.	1.5	122
60	Amplification of interlimb reflexes evoked by stimulating the hand simultaneously with conditioning from the foot during locomotion. BMC Neuroscience, 2013, 14, 28.	1.9	21
61	Differential modulation of reciprocal inhibition in ankle muscles during rhythmic arm cycling. Neuroscience Letters, 2013, 534, 269-273.	2.1	6
62	Prior experience does not alter modulation of cutaneous reflexes during manual wheeling and symmetrical arm cycling. Journal of Neurophysiology, 2013, 109, 2345-2353.	1.8	1
63	Neural Mechanisms Influencing Interlimb Coordination during Locomotion in Humans: Presynaptic Modulation of Forearm H-Reflexes during Leg Cycling. PLoS ONE, 2013, 8, e76313.	2.5	28
64	Neural control of rhythmic arm cycling after stroke. Journal of Neurophysiology, 2012, 108, 891-905.	1.8	40
65	Persistence of locomotor-related interlimb reflex networks during walking after stroke. Clinical Neurophysiology, 2012, 123, 796-807.	1.5	51
66	Effect of afferent feedback and central motor commands on soleus H-reflex suppression during arm cycling. Journal of Neurophysiology, 2012, 108, 3049-3058.	1.8	20
67	Physical activity after stroke and spinal cord injury: evidence-based recommendations on clearance for physical activity and exercise. Canadian Family Physician, 2012, 58, 1236-9.	0.4	10
68	Evidence-based risk assessment and recommendations for physical activity clearance: stroke and spinal cord injury ¹ This paper is one of a selection of papers published in this Special Issue, entitled Evidence-based risk assessment and recommendations for physical activity clearance, and has undergone the Journal's usual peer review process Applied Physiology, Nutrition and Metabolism,	1.9	32
69	2011, 36, S214-S231. From Claude Bernard to the Batcave and beyond: using Batman as a hook for physiology education. American Journal of Physiology - Advances in Physiology Education, 2011, 35, 1-4.	1.6	18
70	Robotic-assisted stepping modulates monosynaptic reflexes in forearm muscles in the human. Journal of Neurophysiology, 2011, 106, 1679-1687.	1.8	19
71	Interlimb coupling from the arms to legs is differentially specified for populations of motor units comprising the compound H-reflex during "reduced―human locomotion. Experimental Brain Research, 2011, 208, 157-168.	1.5	36
72	Bilateral neuromuscular plasticity from unilateral training of the ankle dorsiflexors. Experimental Brain Research, 2011, 208, 217-227.	1.5	75

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73	Multi-frequency arm cycling reveals bilateral locomotor coupling to increase movement symmetry. Experimental Brain Research, 2011, 211, 299-312.	1.5	20
74	Rhythmic arm cycling differentially modulates stretch and H-reflex amplitudes in soleus muscle. Experimental Brain Research, 2011, 214, 529-537.	1.5	13
75	Biomechanical outcomes and neural correlates of cutaneous reflexes evoked during rhythmic arm cycling. Journal of Biomechanics, 2011, 44, 802-809.	2.1	9
76	Effects of Leg Pedaling on Early Latency Cutaneous Reflexes in Upper Limb Muscles. Journal of Neurophysiology, 2010, 104, 210-217.	1.8	21
77	Soleus H-Reflex Modulation During Stance Phase of Walking With Altered Arm Swing Patterns. Motor Control, 2010, 14, 116-125.	0.6	11
78	Phase-dependent modulation of soleus H-reflex amplitude induced by rhythmic arm cycling. Neuroscience Letters, 2010, 475, 7-11.	2.1	25
79	Neuromechanical considerations for incorporating rhythmic arm movement in the rehabilitation of walking. Chaos, 2009, 19, 026102.	2.5	22
80	The Quadrupedal Nature of Human Bipedal Locomotion. Exercise and Sport Sciences Reviews, 2009, 37, 102-108.	3.0	98
81	Suppression of soleus H-reflex amplitude is graded with frequency of rhythmic arm cycling. Experimental Brain Research, 2009, 193, 297-306.	1.5	42
82	Rhythmic arm cycling modulates Hoffmann reflex excitability differentially in the ankle flexor and extensor muscles. Neuroscience Letters, 2009, 450, 235-238.	2.1	22
83	Context-Dependent Modulation of Cutaneous Reflex Amplitudes during Forward and Backward Leg Cycling. Motor Control, 2009, 13, 368-386.	0.6	8
84	A sigmoid function is the best fit for the ascending limb of the Hoffmann reflex recruitment curve. Experimental Brain Research, 2008, 186, 93-105.	1.5	94
85	Rhythmic arm cycling suppresses hyperactive soleus H-reflex amplitude after stroke. Clinical Neurophysiology, 2008, 119, 1443-1452.	1.5	47
86	Scientific Insight that Will Guide Future Study of Visual Regulation of Human Locomotion - A Testament to the Contribution of Dr. Aftab Patla. Exercise and Sport Sciences Reviews, 2008, 36, 107-108.	3.0	0
87	Short-Term Plasticity of Spinal Reflex Excitability Induced by Rhythmic Arm Movement. Journal of Neurophysiology, 2008, 99, 2000-2005.	1.8	15
88	Enhancement of Arm and Leg Locomotor Coupling With Augmented Cutaneous Feedback From the Hand. Journal of Neurophysiology, 2007, 98, 1810-1814.	1.8	44
89	Rhythmic leg cycling modulates forearm muscle H-reflex amplitude and corticospinal tract excitability. Neuroscience Letters, 2007, 419, 10-14.	2.1	54
90	Neural Coupling Between the Arms and Legs During Rhythmic Locomotor-Like Cycling Movement. Journal of Neurophysiology, 2007, 97, 1809-1818.	1.8	105

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91	Earth-Referenced Handrail Contact Facilitates Interlimb Cutaneous Reflexes During Locomotion. Journal of Neurophysiology, 2007, 98, 433-442.	1.8	36
92	Ankle position and voluntary contraction alter maximal M waves in soleus and tibialis anterior. Muscle and Nerve, 2007, 35, 756-766.	2.2	69
93	Neural regulation of rhythmic arm and leg movement is conserved across human locomotor tasks. Journal of Physiology, 2007, 582, 209-227.	2.9	114
94	Recumbent stepping has similar but simpler neural control compared to walking. Experimental Brain Research, 2007, 178, 427-438.	1.5	20
95	Rhythmic arm cycling produces a non-specific signal that suppresses Soleus H-reflex amplitude in stationary legs. Experimental Brain Research, 2007, 179, 199-208.	1.5	45
96	Muscle activation and cutaneous reflex modulation during rhythmic and discrete arm tasks in orthopaedic shoulder instability. Experimental Brain Research, 2007, 179, 339-351.	1.5	15
97	Corticospinal Excitability Is Lower During Rhythmic Arm Movement Than During Tonic Contraction. Journal of Neurophysiology, 2006, 95, 914-921.	1.8	50
98	Training-induced adaptive plasticity in human somatosensory reflex pathways. Journal of Applied Physiology, 2006, 101, 1783-1794.	2.5	71
99	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
100	Limits to Fast-Conducting Somatosensory Feedback in Movement Control. Exercise and Sport Sciences Reviews, 2006, 34, 22-28.	3.0	13
101	Cutaneous reflexes during rhythmic arm cycling are insensitive to asymmetrical changes in crank length. Experimental Brain Research, 2006, 168, 165-177.	1.5	15
102	Diurnal changes in the amplitude of the Hoffmann reflex in the human soleus but not in the flexor carpi radialis muscle. Experimental Brain Research, 2006, 170, 1-6.	1.5	47
103	Task-specific modulation of cutaneous reflexes expressed at functionally relevant gait cycle phases during level and incline walking and stair climbing. Experimental Brain Research, 2006, 173, 185-192.	1.5	53
104	Increased spinal reflex excitability is not associated with neural plasticity underlying the cross-education effect. Journal of Applied Physiology, 2006, 100, 83-90.	2.5	112
105	Postural uncertainty leads to dynamic control of cutaneous reflexes from the foot during human walking. Brain Research, 2005, 1062, 48-62.	2.2	55
106	Modulation of cutaneous reflexes in human upper limb muscles during arm cycling is independent of activity in the contralateral arm. Experimental Brain Research, 2005, 161, 133-144.	1.5	34
107	Forward and Backward Arm Cycling Are Regulated by Equivalent Neural Mechanisms. Journal of Neurophysiology, 2005, 93, 633-640.	1.8	32
108	Neural control of rhythmic human movement: the common core hypothesis. Exercise and Sport Sciences Reviews, 2005, 33, 54-60.	3.0	98

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109	Effect of Rhythmic Arm Movement on Reflexes in the Legs: Modulation of Soleus H-Reflexes and Somatosensory Conditioning. Journal of Neurophysiology, 2004, 91, 1516-1523.	1.8	127
110	Facilitation of soleus H-reflex amplitude evoked by cutaneous nerve stimulation at the wrist is not suppressed by rhythmic arm movement. Experimental Brain Research, 2004, 159, 382-388.	1.5	41
111	Possible contributions of CPG activity to the control of rhythmic human arm movement. Canadian Journal of Physiology and Pharmacology, 2004, 82, 556-568.	1.4	109
112	Regulation of Arm and Leg Movement during Human Locomotion. Neuroscientist, 2004, 10, 347-361.	3.5	350
113	Modulation of cutaneous reflexes in arm muscles during walking: further evidence of similar control mechanisms for rhythmic human arm and leg movements. Experimental Brain Research, 2003, 149, 260-266.	1.5	111
114	Neural Control of Rhythmic Human Arm Movement: Phase Dependence and Task Modulation of Hoffmann Reflexes in Forearm Muscles. Journal of Neurophysiology, 2003, 89, 12-21.	1.8	72
115	Coordinated Interlimb Compensatory Responses to Electrical Stimulation of Cutaneous Nerves in the Hand and Foot During Walking. Journal of Neurophysiology, 2003, 90, 2850-2861.	1.8	120
116	Considerations for use of the Hoffmann reflex in exercise studies. European Journal of Applied Physiology, 2002, 86, 455-468.	2.5	476
117	Differential Regulation of Cutaneous and H-Reflexes During Leg Cycling in Humans. Journal of Neurophysiology, 2001, 85, 1178-1184.	1.8	60
118	Absence of nerve specificity in human cutaneous reflexes during standing. Experimental Brain Research, 2000, 133, 267-272.	1.5	80
119	Modulation of human cutaneous reflexes during rhythmic cyclical arm movement. Experimental Brain Research, 2000, 135, 241-250.	1.5	71
120	How the Arms Help the Legs Get Better at Walking After Stroke. Frontiers for Young Minds, 0, 7, .	0.8	0