Trent J Herda

List of Publications by Year in Descending Order

82 papers	1,403 citations	21 h-index	34 g-index
98 ext. papers	1,604 ext. citations	2.4 avg, IF	4.48 L-index

#	Paper	IF	Citations
82	Effects of continuous cycling training on motor unit firing rates, input excitation, and myosin heavy chain of the vastus lateralis in sedentary females.. *Experimental Brain Research*, **2022**, 240, 825	2.3	1
81	Method of analysis influences interpretations of sex-related differences in firing rates during prolonged submaximal isometric contractions.. *Journal of Musculoskeletal Neuronal Interactions*, **2022**, 22, 27-36	1.3	0
80	Effects of Endurance Cycling on Mechanomyographic Median Power Frequency of the Vastus Lateralis. *Applied Sciences (Switzerland)*, **2022**, 12, 5213	2.6	
79	An examination of motor unit firing rates during steady torque of maximal efforts with either an explosive or slower rate of torque development. *Experimental Physiology*, **2021**, 106, 2517-2530	2.4	0
78	An examination of a potential organized motor unit firing rate and recruitment scheme of an antagonist muscle during isometric contractions. *Journal of Neurophysiology*, **2021**, 125, 2094-2106	3.2	4
77	Comparisons of muscle strength, size, and voluntary activation in pre- and post-pubescent males and females. *European Journal of Applied Physiology*, **2021**, 121, 2487-2497	3.4	1
76	Endurance training alters motor unit activation strategies for the vastus lateralis, yet sex-related differences and relationships with muscle size remain. *European Journal of Applied Physiology*, **2021**, 121, 1367-1377	3.4	2
75	The reliability of the slopes and y-intercepts of the motor unit firing times and action potential waveforms versus recruitment threshold relationships derived from surface electromyography signal decomposition. *European Journal of Applied Physiology*, **2021**, 121, 3389-3398	3.4	1
74	Differences in the firing rate versus recruitment threshold relationships of the vastus lateralis in children ages 7-10 years and adults. *Human Movement Science*, **2020**, 72, 102650	2.4	2
73	Sex-related differences in motor unit firing rates and action potential amplitudes of the first dorsal interosseous during high-, but not low-intensity contractions. *Experimental Brain Research*, **2020**, 238, 1133-1144	2.3	5
72	Skeletal Muscle Composition and Glucose Levels in Children Who Are Overweight and Obese. *Pediatric Exercise Science*, **2020**, 32, 157-164	2	
71	Measuring the accuracies of motor unit firing times and action potential waveforms derived from surface electromyographic decomposition. *Journal of Electromyography and Kinesiology*, **2020**, 52, 102421	2.5	8
70	Muscle cross-sectional area and motor unit properties of the medial gastrocnemius and vastus lateralis in normal weight and overfat children. *Experimental Physiology*, **2020**, 105, 335-346	2.4	3
69	Eight weeks of resistance training increases strength, muscle cross-sectional area and motor unit size, but does not alter firing rates in the vastus lateralis. *European Journal of Applied Physiology*, **2020**, 120, 281-294	3.4	14
68	Neural Drive is Greater for a High-Intensity Contraction Than for Moderate-Intensity Contractions Performed to Fatigue. *Journal of Strength and Conditioning Research*, **2020**, 34, 3013-3021	3.2	9
67	Changes in Strength, Mobility, and Body Composition Following Self-Selected Exercise in Older Adults. *Journal of Aging and Physical Activity*, **2020**, 29, 17-26	1.6	1
66	Motor unit firing rates of the first dorsal interosseous differ between male and female children aged 8-10 years. *Human Movement Science*, **2019**, 66, 416-424	2.4	6

65	Sex-related differences in muscle size explained by amplitudes of higher-threshold motor unit action potentials and muscle fibre typing. *Acta Physiologica*, **2019**, 225, e13151	5.6	24
64	The effect of rate of torque development on motor unit recruitment and firing rates during isometric voluntary trapezoidal contractions. *Experimental Brain Research*, **2019**, 237, 2653-2664	2.3	6
63	Muscular strength and power are correlated with motor unit action potential amplitudes, but not myosin heavy chain isoforms in sedentary males and females. *Journal of Biomechanics*, **2019**, 86, 251-255	2.9	13
62	Motor unit action potential amplitudes and firing rates during repetitive muscle actions of the first dorsal interosseous in children and adults. *European Journal of Applied Physiology*, **2019**, 119, 1007-1018	3.4	10
61	Differences in the motor unit firing rates and amplitudes in relation to recruitment thresholds during submaximal contractions of the first dorsal interosseous between chronically resistance-trained and physically active men. *Applied Physiology, Nutrition and Metabolism*, **2018**, 43, 759-768	3	17
60	Age-related differences in the motor unit action potential size in relation to recruitment threshold. *Clinical Physiology and Functional Imaging*, **2018**, 38, 610-616	2.4	18
59	Examination of muscle morphology and neuromuscular function in normal weight and overfat children aged 7-10 years. *Scandinavian Journal of Medicine and Science in Sports*, **2018**, 28, 2310-2321	4.6	14
58	Examination of muscle composition and motor unit behavior of the first dorsal interosseous of normal and overweight children. *Journal of Neurophysiology*, **2018**, 119, 1902-1911	3.2	18
57	Vastus lateralis muscle tissue composition and motor unit properties in chronically endurance-trained vs. sedentary women. *European Journal of Applied Physiology*, **2018**, 118, 1789-1800	3.4	14
56	Influence of Sex and Cross-Sectional Area on Motor Unit Recruitment Patterns of the Vastus Lateralis. *Medicine and Science in Sports and Exercise*, **2018**, 50, 566-567	1.2	
55	Age-related differences in twitch properties and muscle activation of the first dorsal interosseous. *Clinical Neurophysiology*, **2017**, 128, 925-934	4.3	16
54	Time-related changes in firing rates are influenced by recruitment threshold and twitch force potentiation in the first dorsal interosseous. *Experimental Physiology*, **2017**, 102, 950-961	2.4	6
53	The influence of prolonged vibration on motor unit behavior. *Muscle and Nerve*, **2017**, 55, 500-507	3.4	8
52	Time Course of Changes in Neuromuscular Parameters During Sustained Isometric Muscle Actions. *Journal of Strength and Conditioning Research*, **2016**, 30, 2697-2702	3.2	11
51	The change in motor unit firing rates at de-recruitment relative to recruitment is correlated with type I myosin heavy chain isoform content of the vastus lateralis in vivo. *Acta Physiologica*, **2016**, 216, 454-63	5.6	13
50	The effects of chronic exercise training status on motor unit activation and deactivation control strategies. *Journal of Sports Sciences*, **2016**, 34, 199-208	3.6	6
49	Immunoendocrine alterations following Marine Corps Martial Arts training are associated with changes in moral cognitive processes. *Physiology and Behavior*, **2016**, 154, 76-82	3.5	4
48	Effects of Short-Term Dynamic Constant External Resistance Training and Subsequent Detraining on Strength of the Trained and Untrained Limbs: A Randomized Trial. *Sports*, **2016**, 4,	3	1

47	Influence of the contractile properties of muscle on motor unit firing rates during a moderate-intensity contraction in vivo. *Journal of Neurophysiology*, **2016**, 116, 552-62	3.2	25
46	The influence of myosin heavy chain isoform content on mechanical behavior of the vastus lateralis in vivo. *Journal of Electromyography and Kinesiology*, **2016**, 28, 143-51	2.5	8
45	Effects of the innervation zone on the time and frequency domain parameters of the surface electromyographic signal. *Journal of Electromyography and Kinesiology*, **2015**, 25, 565-70	2.5	9
44	The influence of electromyographic recording methods and the innervation zone on the mean power frequency-torque relationships. *Journal of Electromyography and Kinesiology*, **2015**, 25, 423-30	2.5	5
43	Muscle-related differences in mechanomyography frequency-force relationships are model dependent. *Medical and Biological Engineering and Computing*, **2015**, 53, 689-97	3.1	6
42	Comparing passive angle-torque curves recorded simultaneously with a load cell versus an isokinetic dynamometer during dorsiflexion stretch tolerance assessments. *Medical Engineering and Physics*, **2015**, 37, 494-8	2.4	1
41	Mechanomyographic mean power frequency during an isometric trapezoid muscle action at multiple contraction intensities. *Physiological Measurement*, **2015**, 36, 1383-97	2.9	4
40	Motor unit control strategies of endurance- versus resistance-trained individuals. *Muscle and Nerve*, **2015**, 52, 832-43	3.4	29
39	Muscle-related differences in mechanomyography force relationships are model-dependent. *Muscle and Nerve*, **2014**, 49, 202-8	3.4	8
38	Relationships between skinfold thickness and electromyographic and mechanomyographic amplitude recorded during voluntary and non-voluntary muscle actions. *Journal of Electromyography and Kinesiology*, **2014**, 24, 207-13	2.5	22
37	Examination of motor unit control properties of the vastus lateralis in an individual that had acute paralytic poliomyelitis. *Journal of Clinical Neurophysiology*, **2014**, 31, e11-5	2.2	3
36	Effects of dynamic stretching on strength, muscle imbalance, and muscle activation. *Medicine and Science in Sports and Exercise*, **2014**, 46, 586-93	1.2	32
35	The effects of poliomyelitis on motor unit behavior during repetitive muscle actions: a case report. *BMC Research Notes*, **2014**, 7, 611	2.3	6
34	The time course of the effects of constant-angle and constant-torque stretching on the muscle-tendon unit. *Scandinavian Journal of Medicine and Science in Sports*, **2014**, 24, 62-7	4.6	21
33	Quantifying the effects of electrode distance from the innervation zone on the electromyographic amplitude versus torque relationships. *Physiological Measurement*, **2013**, 34, 315-24	2.9	9
32	Electromyographic, but not mechanomyographic amplitude-force relationships, distinguished differences in voluntary activation capabilities between individuals. *Journal of Electromyography and Kinesiology*, **2013**, 23, 356-61	2.5	4
31	The effects of dynamic stretching on the passive properties of the muscle-tendon unit. *Journal of Sports Sciences*, **2013**, 31, 479-87	3.6	39
30	Effects of short-term resistance training and subsequent detraining on the electromechanical delay. *Muscle and Nerve*, **2013**, 48, 135-6	3.4	8

29	Relationships between the mechanomyographic amplitude patterns of response and concentric isokinetic fatiguing tasks of the leg extensors. *Physiological Measurement*, **2013**, 34, 1293-301	2.9	2
28	The effects of a doublet stimulus and force level on the electromechanical delay. *Journal of Strength and Conditioning Research*, **2013**, 27, 2314-8	3.2	3
27	Acute effects of passive stretching on the electromechanical delay and evoked twitch properties: a gender comparison. *Journal of Applied Biomechanics*, **2012**, 28, 645-54	1.2	22
26	Consistency of rapid muscle force characteristics: influence of muscle contraction onset detection methodology. *Journal of Electromyography and Kinesiology*, **2012**, 22, 893-900	2.5	20
25	Differences in the log-transformed electromyographic-force relationships of the plantar flexors between high- and moderate-activated subjects. *Journal of Electromyography and Kinesiology*, **2011**, 21, 841-6	2.5	20
24	Percent voluntary inactivation and peak force predictions with the interpolated twitch technique in individuals with high ability of voluntary activation. *Physiological Measurement*, **2011**, 32, 1591-603	2.9	5
23	Effects of two modes of static stretching on muscle strength and stiffness. *Medicine and Science in Sports and Exercise*, **2011**, 43, 1777-84	1.2	56
22	Innervation zone location of the biceps brachii, a comparison between genders and correlation with anthropometric measurements. *Journal of Electromyography and Kinesiology*, **2010**, 20, 76-80	2.5	16
21	A noninvasive, log-transform method for fiber type discrimination using mechanomyography. *Journal of Electromyography and Kinesiology*, **2010**, 20, 787-94	2.5	39
20	Reproducibility and validity of bioimpedance spectroscopy for tracking changes in total body water: implications for repeated measurements. *British Journal of Nutrition*, **2010**, 104, 1384-94	3.6	25
19	Acute Effects of Passive Stretching on the Electromechanical Delay and Evoked Twitch Properties in Women. *Medicine and Science in Sports and Exercise*, **2010**, 42, 400	1.2	
18	The Effect Of The Length-tension Relationship On Muscle Activation. *Medicine and Science in Sports and Exercise*, **2010**, 42, 581	1.2	
17	Acute effects of passive stretching on the electromechanical delay and evoked twitch properties. *European Journal of Applied Physiology*, **2010**, 108, 301-10	3.4	62
16	Viscoelastic creep in the human skeletal muscle-tendon unit. *European Journal of Applied Physiology* , **2010**, 108, 207-11	3.4	31
15	The consistency of ordinary least-squares and generalized least-squares polynomial regression on characterizing the mechanomyographic amplitude versus torque relationship. *Physiological Measurement*, **2009**, 30, 115-28	2.9	10
14	Acute effects of a thermogenic nutritional supplement on cycling time to exhaustion and muscular strength in college-aged men. *Journal of the International Society of Sports Nutrition*, **2009**, 6, 15	4.5	11
13	Reliability of absolute versus log-transformed regression models for examining the torque-related patterns of response for mechanomyographic amplitude. *Journal of Neuroscience Methods*, **2009**, 179, 240-6	3	24
12	Electrode placement over the innervation zone affects the low-, not the high-frequency portion of the EMG frequency spectrum. *Journal of Electromyography and Kinesiology*, **2009**, 19, 660-6	2.5	18

11	Determining the minimum number of passive stretches necessary to alter musculotendinous stiffness. *Journal of Sports Sciences*, **2009**, 27, 957-61	3.6	49
10	An examination of innervation zone movement with increases in isometric torque production. *Clinical Neurophysiology*, **2008**, 119, 2795-9	4.3	19
9	Time and frequency domain responses of the mechanomyogram and electromyogram during isometric ramp contractions: a comparison of the short-time Fourier and continuous wavelet transforms. *Journal of Electromyography and Kinesiology*, **2008**, 18, 54-67	2.5	38
8	The time course of musculotendinous stiffness responses following different durations of passive stretching. *Journal of Orthopaedic and Sports Physical Therapy*, **2008**, 38, 632-9	4.2	117
7	Effects of creatine loading on electromyographic fatigue threshold in cycle ergometry in college-age men. *International Journal of Sport Nutrition and Exercise Metabolism*, **2008**, 18, 142-51	4.4	3
6	Acute effects of static versus dynamic stretching on isometric peak torque, electromyography, and mechanomyography of the biceps femoris muscle. *Journal of Strength and Conditioning Research*, **2008**, 22, 809-17	3.2	134
5	Do practical durations of stretching alter muscle strength? A dose-response study. *Medicine and Science in Sports and Exercise*, **2008**, 40, 1529-37	1.2	102
4	Mechanomyographic amplitude and mean power frequency responses during isometric ramp vs. step muscle actions. *Journal of Neuroscience Methods*, **2008**, 168, 293-305	3	26
3	Reliability of mechanomyographic amplitude and mean power frequency during isometric step and ramp muscle actions. *Journal of Neuroscience Methods*, **2008**, 171, 104-9	3	25
2	Effects of a supplement designed to increase ATP levels on muscle strength, power output, and endurance. *Journal of the International Society of Sports Nutrition*, **2008**, 5, 3	4.5	11
1	Inter-individual variability in the torque-related patterns of responses for mechanomyographic amplitude and mean power frequency. *Journal of Neuroscience Methods*, **2007**, 161, 212-9	3	20