Timothy J Doherty

List of Publications by Year
in descending order

65 papers	5,023 citations	136950 32 h-index	138484 58 g-index
66 all docs	66 docs citations	66 times ranked	5298 citing authors

#	Article	IF	Citations
1	Invited Review: Aging and sarcopenia. Journal of Applied Physiology, 2003, 95, 1717-1727.	2.5	1,396
2	The estimated numbers and relative sizes of thenar motor units as selected by multiple point stimulation in young and older adults. Muscle and Nerve, 1993, 16, 355-366.	2.2	285
3	Effects of Ageing on the Motor Unit: A Brief Review. Applied Physiology, Nutrition, and Metabolism, 1993, 18, 331-358.	1.7	279
4	Motor unit number estimates in the tibialis anterior muscle of young, old, and very old men. Muscle and Nerve, 2005, 31, 461-467.	2.2	260
5	The influence of aging and sex on skeletal muscle mass and strength. Current Opinion in Clinical Nutrition and Metabolic Care, 2001, 4, 503-508.	2.5	207
6	Early mobilization in the critical care unit: A review of adult and pediatric literature. Journal of Critical Care, 2015, 30, 664-672.	2.2	203
7	Sarcopenia: Prevalence, Mechanisms, and Functional Consequences. Interdisciplinary Topics in Gerontology, 2010, 37, 94-114.	3.6	139
8	Motor Unit Number Estimates in Masters Runners. Medicine and Science in Sports and Exercise, 2010, 42, 1644-1650.	0.4	129
9	Disentangling Cognitive-Frailty: Results From the Gait and Brain Study. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2016, 71, 1476-1482.	3.6	125
10	Motor unit number estimation: A technology and literature review. Muscle and Nerve, 2014, 50, 884-893.	2.2	115
11	Age-related changes in the twitch contractile properties of human thenar motor units. Journal of Applied Physiology, 1997, 82, 93-101.	2.5	112
12	Motor Unit Survival in Lifelong Runners Is Muscle Dependent. Medicine and Science in Sports and Exercise, 2012, 44, 1235-1242.	0.4	99
13	Motor unit number estimates based on the automated analysis of F-responses. Muscle and Nerve, 1994, 17, 881-890.	2.2	98
14	Reliability of Hand-Held Dynamometry in Assessment of Knee Extensor Strength After Hip Fracture. American Journal of Physical Medicine and Rehabilitation, 2004, 83, 813-818.	1.4	98
15	Decomposition-based quantitative electromyography: Methods and initial normative data in five muscles. Muscle and Nerve, 2003, 28, 204-211.	2.2	92
16	Multiparametric MRI changes persist beyond recovery in concussed adolescent hockey players. Neurology, 2017, 89, 2157-2166.	1.1	83
17	Neuromuscular contributions to the age-related reduction in muscle power: Mechanisms and potential role of high velocity power training. Ageing Research Reviews, 2017, 35, 147-154.	10.9	81
18	Motor unit number estimation by decomposition-enhanced spike-triggered averaging: Control data, test-retest reliability, and contractile level effects. Muscle and Nerve, 2004, 29, 693-699.	2.2	80

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19	Motor unit number and transmission stability in octogenarian world class athletes: Can age-related deficits be outrun?. Journal of Applied Physiology, 2016, 121, 1013-1020.	2.5	70
20	Decomposition-based quantitative electromyography: Effect of force on motor unit potentials and motor unit number estimates. Muscle and Nerve, 2005, 31, 365-373.	2.2	68
21	Ageâ€related reductions in the estimated numbers of motor units are minimal in the human soleus. Muscle and Nerve, 2008, 38, 1108-1115.	2.2	68
22	Increased motor unit potential shape variability across consecutive motor unit discharges in the tibialis anterior and vastus medialis muscles of healthy older subjects. Clinical Neurophysiology, 2015, 126, 2381-2389.	1.5	61
23	Motor unit loss and weakness in association with diabetic neuropathy in humans. Muscle and Nerve, 2013, 48, 298-300.	2.2	60
24	Physiological properties of single thenar motor units in the F-response of younger and older adults. Muscle and Nerve, 1994, 17, 860-872.	2.2	56
25	Determinants of mean motor unit size: Impact on estimates of motor unit number. Muscle and Nerve, 1993, 16, 1326-1331.	2.2	53
26	Contractile properties of human motor units in health, aging, and disease. Muscle and Nerve, 2001, 24, 1113-1133.	2.2	52
27	Within-subject reliability of motor unit number estimates and quantitative motor unit analysis in a distal and proximal upper limb muscle. Clinical Neurophysiology, 2006, 117, 596-603.	1.5	47
28	Length dependent loss of motor axons and altered motor unit properties in human diabetic polyneuropathy. Clinical Neurophysiology, 2014, 125, 836-843.	1.5	46
29	A method for the longitudinal study of human thenar motor units. Muscle and Nerve, 1994, 17, 1029-1036.	2.2	44
30	Increased neuromuscular transmission instability and motor unit remodelling with diabetic neuropathy as assessed using novel near fibre motor unit potential parameters. Clinical Neurophysiology, 2015, 126, 794-802.	1.5	43
31	Physiology in Medicine: neuromuscular consequences of diabetic neuropathy. Journal of Applied Physiology, 2016, 121, 1-6.	2.5	43
32	Decreased muscle endurance associated with diabetic neuropathy may be attributed partially to neuromuscular transmission failure. Journal of Applied Physiology, 2015, 118, 1014-1022.	2.5	35
33	The effect of contraction intensity on motor unit number estimates of the tibialis anterior. Clinical Neurophysiology, 2005, 116, 1342-1347.	1.5	33
34	Motor unit number estimates and quantitative motor unit analysis in healthy subjects and patients with amyotrophic lateral sclerosis. Muscle and Nerve, 2007, 36, 62-70.	2.2	33
35	Motor unit number estimation and neuromuscular fidelity in 3 stages of sarcopenia. Muscle and Nerve, 2017, 55, 676-684.	2.2	33
36	Estimating Contraction Level Using Root Mean Square Amplitude in Control Subjects and Patients With Neuromuscular Disorders. Archives of Physical Medicine and Rehabilitation, 2008, 89, 711-718.	0.9	30

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37	Motor unit loss is accompanied by decreased peak muscle power in the lower limb of older adults. Experimental Gerontology, 2015, 70, 111-118.	2.8	30
38	Reduced skeletal muscle quantity and quality in patients with diabetic polyneuropathy assessed by magnetic resonance imaging. Muscle and Nerve, 2016, 53, 726-732.	2.2	28
39	Maintaining motor units into old age: running the final common pathway. European Journal of Translational Myology, 2017, 27, 6597.	1.7	26
40	Reduced brain glutamine in female varsity rugby athletes after concussion and in nonâ€concussed athletes after a season of play. Human Brain Mapping, 2018, 39, 1489-1499.	3.6	24
41	Neuroprotective effects of exercise on the aging human neuromuscular system. Experimental Gerontology, 2021, 152, 111465.	2.8	22
42	Longitudinal study of the contractile and electrical properties of single human thenar motor units. , 1998, 21, 839-849.		20
43	The effect of physical exercise on functional brain network connectivity in older adults with and without cognitive impairment. A systematic review. Mechanisms of Ageing and Development, 2021, 196, 111493.	4.6	19
44	Effect of very old age on anconeus motor unit loss and compensatory remodelling. Muscle and Nerve, 2018, 57, 659-663.	2.2	12
45	Reductions in muscle quality and quantity in chronic inflammatory demyelinating polyneuropathy patients assessed by magnetic resonance imaging. Muscle and Nerve, 2018, 58, 396-401.	2.2	11
46	Abnormal motor unit firing rates in chronic inflammatory demyelinating polyneuropathy. Journal of the Neurological Sciences, 2020, 414, 116859.	0.6	11
47	Spinal accessory nerve injury: A potentially missed cause of a painful, droopy shoulder. Journal of Back and Musculoskeletal Rehabilitation, 2016, 29, 899-904.	1.1	10
48	Electrophysiological and neuromuscular stability of persons with chronic inflammatory demyelinating polyneuropathy. Muscle and Nerve, 2017, 56, 413-420.	2.2	10
49	If you don't use it you'll likely lose it. Clinical Physiology and Functional Imaging, 2016, 36, 497-498.	1.2	9
50	Anconeus motor unit number estimates using decompositionâ€based quantitative electromyography. Muscle and Nerve, 2014, 50, 52-59.	2.2	8
51	Nerve dysfunction leads to muscle morphological abnormalities in chronic inflammatory demyelinating polyneuropathy assessed by MRI. Clinical Anatomy, 2020, 33, 77-84.	2.7	7
52	Multiple point stimulation and F-response MUNE techniques. Supplements To Clinical Neurophysiology, 2003, 55, 29-40.	2.1	5
53	MUNE measurement of age-related changes. Supplements To Clinical Neurophysiology, 2003, , 158-164.	2.1	4
54	Motor unit estimates based on the automated analysis of F-waves. , 1992, , .		2

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55	Assessment of age-related differences in decomposition-based quantitative EMG in the intrinsic hand muscles: A multivariate approach. Clinical Neurophysiology, 2020, 131, 2192-2199.	1.5	2
56	Motor unit number estimates in worldâ€€class masters athletes: is 80 the new 60?. FASEB Journal, 2013, 27, 1150.1.	0.5	2
57	Length-dependent changes of lower limb muscle morphology in Chronic Inflammatory Demyelinating Polyneuropathy assessed with magnetic resonance imaging. European Journal of Translational Myology, 2021, , .	1.7	2
58	Reply. Muscle and Nerve, 2017, 55, 930-931.	2.2	1
59	Test-retest reliability of near-fibre jiggle in the ulnar intrinsic hand muscles. Journal of Electromyography and Kinesiology, 2019, 49, 102349.	1.7	1
60	Local and systemic transcriptomic responses from acute exercise induced muscle damage of the human knee extensors. Physiological Genomics, 2022, 54, 305-315.	2.3	1
61	Axon excitability in motor unit number estimation. Supplements To Clinical Neurophysiology, 2003, , 15-21.	2.1	0
62	Reply to reflection on MUNE. Muscle and Nerve, 2015, 51, 624-624.	2.2	0
63	Reply to Senefeld and Hunter: Physiology in Medicine: Neuromuscular consequences of diabetic neuropathy. The authors' reply. Journal of Applied Physiology, 2016, 121, 361-361.	2.5	0
64	Reply to Drs. Sacco et al.. Journal of Applied Physiology, 2017, 122, 1525-1525.	2.5	0
65	Response to letter: Preventing age-related motor unit loss: Is exercise the answer?. Experimental Gerontology, 2022, 159, 111696.	2.8	0