

Minoru Shinohara

List of Publications by Citations

Source: <https://exaly.com/author-pdf/6826442/minoru-shinohara-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

85
papers

3,074
citations

35
h-index

54
g-index

91
ext. papers

3,391
ext. citations

2.7
avg, IF

5.16
L-index

#	Paper	IF	Citations
85	Oxygen availability and motor unit activity in humans. <i>European Journal of Applied Physiology and Occupational Physiology</i> , 1992 , 64, 552-6		160
84	Real-time visualization of muscle stiffness distribution with ultrasound shear wave imaging during muscle contraction. <i>Muscle and Nerve</i> , 2010 , 42, 438-41	3.4	156
83	Efficacy of tourniquet ischemia for strength training with low resistance. <i>European Journal of Applied Physiology and Occupational Physiology</i> , 1998 , 77, 189-91		126
82	Effects of age and gender on finger coordination in MVC and submaximal force-matching tasks. <i>Journal of Applied Physiology</i> , 2003 , 94, 259-70	3.7	120
81	Muscle shear modulus measured with ultrasound shear-wave elastography across a wide range of contraction intensity. <i>Muscle and Nerve</i> , 2014 , 50, 103-13	3.4	112
80	Dual-task motor performance with a tongue-operated assistive technology compared with hand operations. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2012 , 9, 1	5.3	110
79	Learning multi-finger synergies: an uncontrolled manifold analysis. <i>Experimental Brain Research</i> , 2004 , 157, 336-50	2.3	92
78	Finger interaction during accurate multi-finger force production tasks in young and elderly persons. <i>Experimental Brain Research</i> , 2004 , 156, 282-92	2.3	91
77	Steadiness in plantar flexor muscles and its relation to postural sway in young and elderly adults. <i>Muscle and Nerve</i> , 2010 , 42, 78-87	3.4	90
76	Increase in Neuromuscular Activity and Oxygen Uptake during Heavy Exercise.. <i>The Annals of Physiological Anthropology</i> , 1992 , 11, 257-262		86
75	Age effects on force produced by intrinsic and extrinsic hand muscles and finger interaction during MVC tasks. <i>Journal of Applied Physiology</i> , 2003 , 95, 1361-9	3.7	85
74	Individual muscle control using an exoskeleton robot for muscle function testing. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2010 , 18, 339-50	4.8	82
73	Characteristics of surface mechanomyogram are dependent on development of fusion of motor units in humans. <i>Journal of Applied Physiology</i> , 2002 , 93, 1744-52	3.7	82
72	Decrease in maximal voluntary contraction by tonic vibration applied to a single synergist muscle in humans. <i>Journal of Applied Physiology</i> , 2000 , 89, 1420-4	3.7	81
71	Alternate muscle activity observed between knee extensor synergists during low-level sustained contractions. <i>Journal of Applied Physiology</i> , 2002 , 93, 675-84	3.7	73
70	Muscle activation and time to task failure differ with load type and contraction intensity for a human hand muscle. <i>Experimental Brain Research</i> , 2005 , 167, 165-77	2.3	73
69	Fluctuations in acceleration during voluntary contractions lead to greater impairment of movement accuracy in old adults. <i>Journal of Applied Physiology</i> , 2003 , 95, 373-84	3.7	71

68	Mechanomyography of the human quadriceps muscle during incremental cycle ergometry. <i>European Journal of Applied Physiology</i> , 1997 , 76, 314-9	3.4	68
67	Effects of prolonged vibration on motor unit activity and motor performance. <i>Medicine and Science in Sports and Exercise</i> , 2005 , 37, 2120-5	1.2	66
66	Non-uniform mechanical activity of quadriceps muscle during fatigue by repeated maximal voluntary contraction in humans. <i>European Journal of Applied Physiology and Occupational Physiology</i> , 1999 , 80, 9-15		62
65	Acute decrease in the stiffness of resting muscle belly due to static stretching. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2015 , 25, 32-40	4.6	61
64	Quantification of dry needling and posture effects on myofascial trigger points using ultrasound shear-wave elastography. <i>Archives of Physical Medicine and Rehabilitation</i> , 2013 , 94, 2146-50	2.8	61
63	Strength training counteracts motor performance losses during bed rest. <i>Journal of Applied Physiology</i> , 2003 , 95, 1485-92	3.7	58
62	Contralateral activity in a homologous hand muscle during voluntary contractions is greater in old adults. <i>Journal of Applied Physiology</i> , 2003 , 94, 966-74	3.7	56
61	Mechanomyogram from the different heads of the quadriceps muscle during incremental knee extension. <i>European Journal of Applied Physiology</i> , 1998 , 78, 289-95	3.4	54
60	Prolonged muscle vibration increases stretch reflex amplitude, motor unit discharge rate, and force fluctuations in a hand muscle. <i>Journal of Applied Physiology</i> , 2005 , 99, 1835-42	3.7	54
59	Wearable Sensorimotor Enhancer for Fingertip Based on Stochastic Resonance Effect. <i>IEEE Transactions on Human-Machine Systems</i> , 2013 , 43, 333-337	4.1	53
58	Force fluctuations are modulated by alternate muscle activity of knee extensor synergists during low-level sustained contraction. <i>Journal of Applied Physiology</i> , 2004 , 97, 2121-31	3.7	51
57	The ventilatory threshold gives maximal lactate steady state. <i>European Journal of Applied Physiology and Occupational Physiology</i> , 1991 , 63, 55-9		47
56	The frequency of alternate muscle activity is associated with the attenuation in muscle fatigue. <i>Journal of Applied Physiology</i> , 2006 , 101, 715-20	3.7	45
55	A single bout of resistance exercise can enhance episodic memory performance. <i>Acta Psychologica</i> , 2014 , 153, 13-9	1.7	43
54	Fluctuations in plantar flexion force are reduced after prolonged tendon vibration. <i>Journal of Applied Physiology</i> , 2004 , 97, 2090-7	3.7	42
53	Corticomuscular coherence with and without additional task in the elderly. <i>Journal of Applied Physiology</i> , 2012 , 112, 970-81	3.7	41
52	Attenuation of corticomuscular coherence with additional motor or non-motor task. <i>Clinical Neurophysiology</i> , 2011 , 122, 356-63	4.3	36
51	Mechanomyography for studying force fluctuations and muscle fatigue. <i>Exercise and Sport Sciences Reviews</i> , 2006 , 34, 59-64	6.7	35

50	Effect of local blood circulation and absolute torque on muscle endurance at two different knee-joint angles in humans. <i>European Journal of Applied Physiology</i> , 2001 , 86, 17-23	3.4	33
49	The medial gastrocnemius muscle attenuates force fluctuations during plantar flexion. <i>Experimental Brain Research</i> , 2006 , 169, 15-23	2.3	28
48	Nonlinear time-course of lumbar muscle fatigue using recurrence quantifications. <i>Biological Cybernetics</i> , 2000 , 82, 373-82	2.8	28
47	Reliability of ultrasound shear-wave elastography in assessing low back musculature elasticity in asymptomatic individuals. <i>Journal of Electromyography and Kinesiology</i> , 2018 , 39, 49-57	2.5	24
46	Local blood circulation among knee extensor synergists in relation to alternate muscle activity during low-level sustained contraction. <i>Journal of Applied Physiology</i> , 2003 , 95, 49-56	3.7	23
45	Modulation of muscle activity and force fluctuations in the plantarflexors after bedrest depends on knee position. <i>Muscle and Nerve</i> , 2007 , 35, 745-55	3.4	22
44	Changes in muscle sympathetic nerve activity and calf blood flow during combined leg and forearm exercise. <i>Acta Physiologica Scandinavica</i> , 1992 , 146, 449-56		22
43	Alterations in synergistic muscle activation impact fluctuations in net force. <i>Medicine and Science in Sports and Exercise</i> , 2009 , 41, 191-7	1.2	20
42	Oscillations in motor unit discharge are reflected in the low-frequency component of rectified surface EMG and the rate of change in force. <i>Experimental Brain Research</i> , 2013 , 231, 267-76	2.3	19
41	Low-frequency component of rectified EMG is temporally correlated with force and instantaneous rate of force fluctuations during steady contractions. <i>Muscle and Nerve</i> , 2013 , 47, 577-84	3.4	18
40	Fluctuations in motor output during steady contractions are weakly related across contraction types and between hands. <i>Muscle and Nerve</i> , 2005 , 31, 741-50	3.4	18
39	Biarticular leg muscles and links to running economy. <i>International Journal of Sports Medicine</i> , 2008 , 29, 688-91	3.6	17
38	Invariable H-reflex and sustained facilitation of stretch reflex with heightened sympathetic outflow. <i>Journal of Electromyography and Kinesiology</i> , 2009 , 19, 1053-60	2.5	16
37	Laser-detected lateral muscle displacement is correlated with force fluctuations during voluntary contractions in humans. <i>Journal of Neuroscience Methods</i> , 2008 , 173, 271-8	3	15
36	Exhausting handgrip exercise reduces the blood flow in the active calf muscle exercising at low intensity. <i>European Journal of Applied Physiology and Occupational Physiology</i> , 1994 , 68, 252-7		15
35	Enhanced corticospinal excitability with physiologically heightened sympathetic nerve activity. <i>Journal of Applied Physiology</i> , 2013 , 114, 429-35	3.7	14
34	Adaptations in motor unit behavior in elderly adults. <i>Current Aging Science</i> , 2011 , 4, 200-8	2.2	12
33	Wearable sensorimotor enhancer for a fingertip based on stochastic resonance 2011 ,		11

32	Lumbar muscle stiffness is different in individuals with low back pain than asymptomatic controls and is associated with pain and disability, but not common physical examination findings. <i>Musculoskeletal Science and Practice</i> , 2020 , 45, 102078	2.4	10
31	Propagation direction of natural mechanical oscillations in the biceps brachii muscle during voluntary contraction. <i>Journal of Electromyography and Kinesiology</i> , 2012 , 22, 51-9	2.5	9
30	Normative parameters and anthropometric variability of lumbar muscle stiffness using ultrasound shear-wave elastography. <i>Clinical Biomechanics</i> , 2019 , 62, 113-120	2.2	7
29	Statistical Inter-stimulus Interval Window Estimation for Transient Neuromodulation via Paired Mechanical and Brain Stimulation. <i>Frontiers in Neurobotics</i> , 2020 , 14, 1	3.4	6
28	Motor cortical disinhibition with baroreceptor unloading induced by orthostatic stress. <i>Journal of Neurophysiology</i> , 2014 , 111, 2656-64	3.2	6
27	Correlated EMG Oscillations between Antagonists during Cocontraction in Men. <i>Medicine and Science in Sports and Exercise</i> , 2017 , 49, 538-548	1.2	5
26	Timing Analysis of Robotic Neuromodulatory Rehabilitation System for Paired Associative Stimulation. <i>IEEE Robotics and Automation Letters</i> , 2016 , 1, 1028-1035	4.2	5
25	Assessment of muscle stiffness using a continuously scanning laser-Doppler vibrometer. <i>Muscle and Nerve</i> , 2014 , 50, 133-5	3.4	5
24	Motor task planning for neuromuscular function tests using an individual muscle control technique 2009 ,		5
23	Robotic rehabilitation exercise in hemiparetic limbs based on functional synchronization of voluntary and involuntary nerve impulses 2014 ,		4
22	Muscle activation strategies in multiple muscle systems. <i>Medicine and Science in Sports and Exercise</i> , 2009 , 41, 181-3	1.2	4
21	Fluctuations in motor output of a hand muscle can be altered by the mechanical properties of the position sensor. <i>Journal of Neuroscience Methods</i> , 2008 , 168, 164-73	3	4
20	Changes in Finger Coordination and Hand Function with Advanced Age 2006 , 141-159		4
19	Motor performance of tongue with a computer-integrated system under different levels of background physical exertion. <i>Ergonomics</i> , 2013 , 56, 1733-44	2.9	3
18	Control of Voluntary and Involuntary Nerve Impulses for Hemiparesis Rehabilitation and MRI Study 2013 ,		3
17	Automatic analysis of ultrasound shear-wave elastography in skeletal muscle without non-contractile tissue contamination. <i>International Journal of Intelligent Robotics and Applications</i> , 2018 , 2, 209-225	1.7	2
16	Robotic finger perturbation training improves finger postural steadiness and hand dexterity. <i>Journal of Electromyography and Kinesiology</i> , 2018 , 38, 208-214	2.5	2
15	Effects of additional workload on hand and tongue performance. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 6611-4	0.9	2

14	Slow Intermuscular Oscillations are Associated with Cocontraction Steadiness. <i>Medicine and Science in Sports and Exercise</i> , 2017 , 49, 1955-1964	1.2	1
13	Corticospinal excitability for flexor carpi radialis decreases with baroreceptor unloading during intentional co-contraction with opposing forearm muscles. <i>Experimental Brain Research</i> , 2019 , 237, 1947-1958	2.3	1
12	Robotic Neuromuscular Facilitation for Regaining Neural Activation in Hemiparetic Limbs 2015 ,		1
11	Unloading muscle activation enhances force perception 2014 ,		1
10	Comparison of Ultrasound Muscle Stiffness Measurement and Electromyography Towards Validation of an Algorithm for Individual Muscle Control 2013 ,		1
9	Reconstruction of net force fluctuations from surface EMGs of multiple muscles in steady isometric plantarflexion. <i>Experimental Brain Research</i> , 2021 , 239, 601-612	2.3	1
8	Design and Preliminary Evaluation of a Tongue-Operated Exoskeleton System for Upper Limb Rehabilitation. <i>International Journal of Environmental Research and Public Health</i> , 2021 , 18,	4.6	1
7	Optimal inter-stimulus interval for paired associative stimulation with mechanical stimulation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2017 , 2017, 1134-1137	0.9	0
6	Preface of the Section Focused on Superhuman Technology. <i>Advanced Robotics</i> , 2017 , 31, 1133-1134	1.7	
5	Insight into the Writing and Reviewing of Scientific Papers in English from the Standpoint of Journal Editor. <i>Japanese Journal of Physical Fitness and Sports Medicine</i> , 2012 , 61, 365-368	0.1	
4	Feature subset selection for age-related changes in EEG and EMG during motor tasks. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 3285-8	0.9	
3	Response to the letter of Quaresima and Ferrari "More on the use of near-infrared spectroscopy to measure muscle oxygenation in humans". <i>European Journal of Applied Physiology</i> , 2003 , 90, 226-7	3.4	
2	Measurement and Characterization of Neuromuscular Adaptations in Human Robot Physical Interaction. <i>Journal of the Robotics Society of Japan</i> , 2019 , 37, 307-311	0.1	
1	Anti-phase cocontraction practice attenuates in-phase low-frequency oscillations between antagonistic muscles as assessed with phase coherence. <i>Experimental Brain Research</i> , 2020 , 238, 63-72	2.3	