

Minoru Shinohara

List of Publications by Year in Descending Order

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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	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
84	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
83	Statistical Inter-stimulus Interval Window Estimation for Transient Neuromodulation via Paired Mechanical and Brain Stimulation. <i>Frontiers in Neurorobotics</i> , 2020 , 14, 1	3.4	6
82	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
81	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	
80	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
79	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
78	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	
77	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
76	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
75	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
74	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
73	Slow Intermuscular Oscillations are Associated with Cocontraction Steadiness. <i>Medicine and Science in Sports and Exercise</i> , 2017 , 49, 1955-1964	1.2	1
72	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
71	Preface of the Section Focused on Superhuman Technology. <i>Advanced Robotics</i> , 2017 , 31, 1133-1134	1.7	
70	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
69	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

68	Robotic Neuromuscular Facilitation for Regaining Neural Activation in Hemiparetic Limbs 2015 ,		1
67	Assessment of muscle stiffness using a continuously scanning laser-Doppler vibrometer. <i>Muscle and Nerve</i> , 2014 , 50, 133-5	3.4	5
66	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
65	A single bout of resistance exercise can enhance episodic memory performance. <i>Acta Psychologica</i> , 2014 , 153, 13-9	1.7	43
64	Motor cortical disinhibition with baroreceptor unloading induced by orthostatic stress. <i>Journal of Neurophysiology</i> , 2014 , 111, 2656-64	3.2	6
63	Robotic rehabilitation exercise in hemiparetic limbs based on functional synchronization of voluntary and involuntary nerve impulses 2014 ,		4
62	Unloading muscle activation enhances force perception 2014 ,		1
61	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
60	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
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	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
57	Comparison of Ultrasound Muscle Stiffness Measurement and Electromyography Towards Validation of an Algorithm for Individual Muscle Control 2013 ,		1
56	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
55	Enhanced corticospinal excitability with physiologically heightened sympathetic nerve activity. <i>Journal of Applied Physiology</i> , 2013 , 114, 429-35	3.7	14
54	Control of Voluntary and Involuntary Nerve Impulses for Hemiparesis Rehabilitation and MRI Study 2013 ,		3
53	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
52	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
51	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	

50	Corticomuscular coherence with and without additional task in the elderly. <i>Journal of Applied Physiology</i> , 2012 , 112, 970-81	3.7	41
49	Attenuation of corticomuscular coherence with additional motor or non-motor task. <i>Clinical Neurophysiology</i> , 2011 , 122, 356-63	4.3	36
48	Wearable sensorimotor enhancer for a fingertip based on stochastic resonance 2011 ,		11
47	Adaptations in motor unit behavior in elderly adults. <i>Current Aging Science</i> , 2011 , 4, 200-8	2.2	12
46	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	
45	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
44	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
43	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
42	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
41	Motor task planning for neuromuscular function tests using an individual muscle control technique 2009 ,		5
40	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
39	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
38	Muscle activation strategies in multiple muscle systems. <i>Medicine and Science in Sports and Exercise</i> , 2009 , 41, 181-3	1.2	4
37	Biarticular leg muscles and links to running economy. <i>International Journal of Sports Medicine</i> , 2008 , 29, 688-91	3.6	17
36	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
35	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
34	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
33	The medial gastrocnemius muscle attenuates force fluctuations during plantar flexion. <i>Experimental Brain Research</i> , 2006 , 169, 15-23	2.3	28

32	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
31	Mechanomyography for studying force fluctuations and muscle fatigue. <i>Exercise and Sport Sciences Reviews</i> , 2006 , 34, 59-64	6.7	35
30	Changes in Finger Coordination and Hand Function with Advanced Age 2006 , 141-159		4
29	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
28	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
27	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
26	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
25	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
24	Fluctuations in plantar flexion force are reduced after prolonged tendon vibration. <i>Journal of Applied Physiology</i> , 2004 , 97, 2090-7	3.7	42
23	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
22	Learning multi-finger synergies: an uncontrolled manifold analysis. <i>Experimental Brain Research</i> , 2004 , 157, 336-50	2.3	92
21	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
20	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
19	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
18	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
17	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
16	Strength training counteracts motor performance losses during bed rest. <i>Journal of Applied Physiology</i> , 2003 , 95, 1485-92	3.7	58
15	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	

14	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
13	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
12	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
11	Nonlinear time-course of lumbar muscle fatigue using recurrence quantifications. <i>Biological Cybernetics</i> , 2000 , 82, 373-82	2.8	28
10	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
9	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
8	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
7	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
6	Mechanomyography of the human quadriceps muscle during incremental cycle ergometry. <i>European Journal of Applied Physiology</i> , 1997 , 76, 314-9	3.4	68
5	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
4	Increase in Neuromuscular Activity and Oxygen Uptake during Heavy Exercise.. <i>The Annals of Physiological Anthropology</i> , 1992 , 11, 257-262		86
3	Oxygen availability and motor unit activity in humans. <i>European Journal of Applied Physiology and Occupational Physiology</i> , 1992 , 64, 552-6		160
2	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
1	The ventilatory threshold gives maximal lactate steady state. <i>European Journal of Applied Physiology and Occupational Physiology</i> , 1991 , 63, 55-9		47