

Motoki Kouzaki

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

2,278
citations

257450

24
h-index

223800

46
g-index

66
all docs

66
docs citations

66
times ranked

1909
citing authors

#	ARTICLE	IF	CITATIONS
1	Importance of Body Sway Velocity Information in Controlling Ankle Extensor Activities During Quiet Stance. <i>Journal of Neurophysiology</i> , 2003, 90, 3774-3782.	1.8	274
2	Changes in muscle size, architecture, and neural activation after 20 days of bed rest with and without resistance exercise. <i>European Journal of Applied Physiology</i> , 2001, 84, 7-12.	2.5	168
3	Efficacy of tourniquet ischemia for strength training with low resistance. <i>European Journal of Applied Physiology and Occupational Physiology</i> , 1997, 77, 189-191.	1.2	158
4	Reduced postural sway during quiet standing by light touch is due to finger tactile feedback but not mechanical support. <i>Experimental Brain Research</i> , 2008, 188, 153-158.	1.5	123
5	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.	2.2	113
6	Decrease in maximal voluntary contraction by tonic vibration applied to a single synergist muscle in humans. <i>Journal of Applied Physiology</i> , 2000, 89, 1420-1424.	2.5	97
7	Alternate muscle activity observed between knee extensor synergists during low-level sustained contractions. <i>Journal of Applied Physiology</i> , 2002, 93, 675-684.	2.5	83
8	Age-related changes in motor unit firing pattern of vastus lateralis muscle during low-moderate contraction. <i>Age</i> , 2016, 38, 48.	3.0	79
9	Postural sway during quiet standing is related to physiological tremor and muscle volume in young and elderly adults. <i>Gait and Posture</i> , 2012, 35, 11-17.	1.4	75
10	Mechanomyography of the human quadriceps muscle during incremental cycle ergometry. <i>European Journal of Applied Physiology</i> , 1997, 76, 314-319.	2.5	72
11	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.	1.2	68
12	Identification of muscle synergies associated with gait transition in humans. <i>Frontiers in Human Neuroscience</i> , 2015, 9, 48.	2.0	65
13	Mechanomyogram from the different heads of the quadriceps muscle during incremental knee extension. <i>European Journal of Applied Physiology</i> , 1998, 78, 289-295.	2.5	60
14	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, 2121-2131.	2.5	53
15	Speed-Dependent Modulation of Muscle Activity Based on Muscle Synergies during Treadmill Walking. <i>Frontiers in Human Neuroscience</i> , 2018, 12, 4.	2.0	49
16	The frequency of alternate muscle activity is associated with the attenuation in muscle fatigue. <i>Journal of Applied Physiology</i> , 2006, 101, 715-720.	2.5	48
17	The flexible recruitment of muscle synergies depends on the required force-generating capability. <i>Journal of Neurophysiology</i> , 2014, 112, 316-327.	1.8	43
18	Regional neuromuscular regulation within human rectus femoris muscle during gait. <i>Journal of Biomechanics</i> , 2014, 47, 3502-3508.	2.1	42

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19	Comparison of muscle synergies for running between different foot strike patterns. PLoS ONE, 2017, 12, e0171535.	2.5	38
20	Relationships between muscle strength and multi-channel surface EMG parameters in eighty-eight elderly. European Review of Aging and Physical Activity, 2018, 15, 3.	2.9	35
21	The medial gastrocnemius muscle attenuates force fluctuations during plantar flexion. Experimental Brain Research, 2006, 169, 15-23.	1.5	33
22	PGC-1 α and FOXO1 mRNA levels and fiber characteristics of the soleus and plantaris muscles in rats after hindlimb unloading. Histology and Histopathology, 2011, 26, 1545-53.	0.7	31
23	Local blood circulation among knee extensor synergists in relation to alternate muscle activity during low-level sustained contraction. Journal of Applied Physiology, 2003, 95, 49-56.	2.5	27
24	Spatial EMG potential distribution of biceps brachii muscle during resistance training and detraining. European Journal of Applied Physiology, 2015, 115, 2661-2670.	2.5	27
25	Regional neuromuscular regulation within human rectus femoris muscle during gait in young and elderly men. Journal of Biomechanics, 2016, 49, 19-25.	2.1	26
26	Novel Insights Into Biarticular Muscle Actions Gained From High-Density Electromyogram. Exercise and Sport Sciences Reviews, 2021, 49, 179-187.	3.0	23
27	Heterogeneous neuromuscular activation within human rectus femoris muscle during pedaling. Muscle and Nerve, 2015, 52, 404-411.	2.2	21
28	Effect of Resistance Training and Fish Protein Intake on Motor Unit Firing Pattern and Motor Function of Elderly. Frontiers in Physiology, 2018, 9, 1733.	2.8	21
29	Mutual and asynchronous anticipation and action in sports as globally competitive and locally coordinative dynamics. Scientific Reports, 2015, 5, 16140.	3.3	20
30	Effect of intermittent feedback control on robustness of human-like postural control system. Scientific Reports, 2016, 6, 22446.	3.3	18
31	Subthreshold electrical stimulation reduces motor unit discharge variability and decreases the force fluctuations of plantar flexion. Neuroscience Letters, 2012, 513, 146-150.	2.1	17
32	Synergistic co-activation in multi-directional postural control in humans. Journal of Electromyography and Kinesiology, 2013, 23, 430-437.	1.7	17
33	Frequency features of mechanomyographic signals of human soleus muscle during quiet standing. Journal of Neuroscience Methods, 2008, 173, 241-248.	2.5	16
34	Alternate muscle activity patterns among synergists of the quadriceps femoris including the vastus intermedius during low-level sustained contraction in men. Muscle and Nerve, 2012, 46, 86-95.	2.2	16
35	Intermittent muscle activity in the feedback loop of postural control system during natural quiet standing. Scientific Reports, 2017, 7, 10631.	3.3	14
36	Region specificity of rectus femoris muscle for force vectors in vivo. Journal of Biomechanics, 2012, 45, 179-182.	2.1	13

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37	Modularity speeds up motor learning by overcoming mechanical bias in musculoskeletal geometry. <i>Journal of the Royal Society Interface</i> , 2018, 15, 20180249.	3.4	13
38	Data-driven spectral analysis for coordinative structures in periodic human locomotion. <i>Scientific Reports</i> , 2019, 9, 16755.	3.3	13
39	Modulation of Neural and Muscular Adaptation Processes During Resistance Training by Fish Protein Ingestions in Older Adults. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2020, 75, 867-874.	3.6	13
40	Effects of combining exercise with long-chain polyunsaturated fatty acid supplementation on cognitive function in the elderly: a randomised controlled trial. <i>Scientific Reports</i> , 2020, 10, 12906.	3.3	12
41	Inter- and intra-lower limb joint coordination of non-expert classical ballet dancers during tiptoe standing. <i>Human Movement Science</i> , 2014, 34, 41-56.	1.4	11
42	Preparatory Body State before Reacting to an Opponent: Short-Term Joint Torque Fluctuation in Real-Time Competitive Sports. <i>PLoS ONE</i> , 2015, 10, e0128571.	2.5	10
43	Visuomotor Transformation for the Lead Leg Affects Trail Leg Trajectories During Visually Guided Crossing Over a Virtual Obstacle in Humans. <i>Frontiers in Neuroscience</i> , 2020, 14, 357.	2.8	10
44	Large postural fluctuations but unchanged postural sway dynamics during tiptoe standing compared to quiet standing. <i>Journal of Electromyography and Kinesiology</i> , 2012, 22, 975-982.	1.7	9
45	Non-uniform recruitment along human rectus femoris muscle during transcutaneous electrical nerve stimulation. <i>European Journal of Applied Physiology</i> , 2015, 115, 2159-2165.	2.5	9
46	Recruitment of muscle synergies is associated with endpoint force fluctuations during multi-directional isometric contractions. <i>Experimental Brain Research</i> , 2015, 233, 1811-1823.	1.5	9
47	Effect of aging on regional neuromuscular regulation within human rectus femoris muscle during stair ascent and descent. <i>Gait and Posture</i> , 2017, 52, 26-32.	1.4	9
48	Local dynamic stability in temporal pattern of intersegmental coordination during various stride time and stride length combinations. <i>Experimental Brain Research</i> , 2019, 237, 257-271.	1.5	8
49	Effects of microgravity on blood flow in the upper and lower limbs. <i>Aerospace Science and Technology</i> , 2014, 34, 20-23.	4.8	7
50	Action Direction of Muscle Synergies in Three-Dimensional Force Space. <i>Frontiers in Bioengineering and Biotechnology</i> , 2015, 3, 187.	4.1	7
51	Action Direction of Muscle Synergies in Voluntary Multi-Directional Postural Control. <i>Frontiers in Human Neuroscience</i> , 2017, 11, 434.	2.0	7
52	Lower Local Dynamic Stability and Invariable Orbital Stability in the Activation of Muscle Synergies in Response to Accelerated Walking Speeds. <i>Frontiers in Human Neuroscience</i> , 2018, 12, 485.	2.0	7
53	Modulation of spatial and temporal modules in lower limb muscle activations during walking with simulated reduced gravity. <i>Scientific Reports</i> , 2021, 11, 14749.	3.3	7
54	Effect of aging on region-specific functional role and muscle geometry along human rectus femoris muscle. <i>Muscle and Nerve</i> , 2017, 56, 982-986.	2.2	5

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55	The Return Trip Is Felt Shorter Only Postdictively: A Psychophysiological Study of the Return Trip Effect. PLoS ONE, 2015, 10, e0127779.	2.5	4
56	Asymmetric interlimb role-sharing in mechanical power during human sideways locomotion. Journal of Biomechanics, 2017, 57, 79-86.	2.1	4
57	Relationship between regional neuromuscular regulation within human rectus femoris muscle and lower extremity kinematics during gait in elderly men. Journal of Electromyography and Kinesiology, 2018, 41, 103-108.	1.7	4
58	Blood flow in astronauts on Earth after long space stay. Acta Astronautica, 2020, 175, 462-464.	3.2	3
59	Modular control of muscle coordination patterns during various stride time and stride length combinations. Gait and Posture, 2022, 94, 230-235.	1.4	3
60	Muscle synergies of multidirectional postural control in astronauts on Earth after a long-term stay in space. Journal of Neurophysiology, 2022, 127, 1230-1239.	1.8	3
61	Visuomotor Adaptation of Lower Extremity Movements During Virtual Ball-Kicking Task. Frontiers in Sports and Active Living, 0, 4, .	1.8	3
62	Medial gastrocnemius is a key muscle for involuntary alternate muscle activity of plantar flexor synergists. Neuroscience Letters, 2013, 550, 145-149.	2.1	2
63	Disturbance of neural coupling between upper and lower limbs during gait transition. Neuroscience Letters, 2021, 761, 136100.	2.1	1
64	Significant Roles of Synergistic Muscles in Human Redundant and Complicated Activities. International Journal of Sport and Health Science, 2005, 3, 181-193.	0.2	0
65	Significance of finger tactile information for postural stability in humans. The Journal of Physical Fitness and Sports Medicine, 2013, 2, 29-36.	0.3	0