

Kimitaka Nakazawa

List of Publications by Year in descending order

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Version: 2024-02-01

123
papers

1,758
citations

331670

21
h-index

395702

33
g-index

129
all docs

129
docs citations

129
times ranked

1560
citing authors

#	ARTICLE	IF	CITATIONS
1	Differences in activation patterns in elbow flexor muscles during isometric, concentric and eccentric contractions. <i>European Journal of Applied Physiology and Occupational Physiology</i> , 1993, 66, 214-220.	1.2	97
2	Distinct sets of locomotor modules control the speed and modes of human locomotion. <i>Scientific Reports</i> , 2016, 6, 36275.	3.3	75
3	Center of pressure velocity reflects body acceleration rather than body velocity during quiet standing. <i>Gait and Posture</i> , 2014, 39, 946-952.	1.4	63
4	Short- and long-latency reflex responses during different motor tasks in elbow flexor muscles. <i>Experimental Brain Research</i> , 1997, 116, 20-28.	1.5	59
5	Differences in recruitment properties of the corticospinal pathway between lengthening and shortening contractions in human soleus muscle. <i>Brain Research</i> , 2003, 977, 169-179.	2.2	49
6	Effects of loading and unloading of lower limb joints on the soleus H-reflex in standing humans. <i>Clinical Neurophysiology</i> , 2004, 115, 1296-1304.	1.5	49
7	Difference in Postural Control during Quiet Standing between Young Children and Adults: Assessment with Center of Mass Acceleration. <i>PLoS ONE</i> , 2015, 10, e0140235.	2.5	49
8	Muscle synergies reveal impaired trunk muscle coordination strategies in individuals with thoracic spinal cord injury. <i>Journal of Electromyography and Kinesiology</i> , 2017, 36, 40-48.	1.7	44
9	Functional roles of lower-limb joint moments while walking in water. <i>Clinical Biomechanics</i> , 2005, 20, 194-201.	1.2	43
10	On the reflex mechanisms of cervical transcutaneous spinal cord stimulation in human subjects. <i>Journal of Neurophysiology</i> , 2019, 121, 1672-1679.	1.8	39
11	Enhanced Stretch Reflex Excitability of the Soleus Muscle in Persons With Incomplete Rather Than Complete Chronic Spinal Cord Injury. <i>Archives of Physical Medicine and Rehabilitation</i> , 2006, 87, 71-75.	0.9	38
12	Cortical Correlates of Locomotor Muscle Synergy Activation in Humans: An Electroencephalographic Decoding Study. <i>IScience</i> , 2019, 15, 623-639.	4.1	37
13	Ankle muscle co-contractions during quiet standing are associated with decreased postural steadiness in the elderly. <i>Gait and Posture</i> , 2017, 55, 31-36.	1.4	36
14	Characteristics of the gait adaptation process due to split-belt treadmill walking under a wide range of right-left speed ratios in humans. <i>PLoS ONE</i> , 2018, 13, e0194875.	2.5	36
15	Selective activation and deactivation of the human brain structures between speeded and precisely timed tapping responses to identical visual stimulus: an fMRI study. <i>NeuroImage</i> , 2004, 22, 1291-1301.	4.2	33
16	Effect of sensory inputs on the soleus H-reflex amplitude during robotic passive stepping in humans. <i>Experimental Brain Research</i> , 2010, 202, 385-395.	1.5	33
17	Action-perception coordination dynamics of whole-body rhythmic movement in stance: A comparison study of street dancers and non-dancers. <i>Neuroscience Letters</i> , 2013, 544, 157-162.	2.1	31
18	Why brain-controlled neuroprosthetics matter: mechanisms underlying electrical stimulation of muscles and nerves in rehabilitation. <i>BioMedical Engineering OnLine</i> , 2020, 19, 81.	2.7	31

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19	Effects of limb loading on the lower-limb electromyographic activity during orthotic locomotion in a paraplegic patient. <i>Neuroscience Letters</i> , 1999, 274, 211-213.	2.1	28
20	Behavioral effect of knee joint motion on body's center of mass during human quiet standing. <i>Gait and Posture</i> , 2015, 41, 291-294.	1.4	26
21	Neural effects of muscle stretching on the spinal reflexes in multiple lower-limb muscles. <i>PLoS ONE</i> , 2017, 12, e0180275.	2.5	26
22	Phase dependent modulation of cortical activity during action observation and motor imagery of walking: An EEG study. <i>NeuroImage</i> , 2021, 225, 117486.	4.2	25
23	Gait phase-dependent and gait phase-independent cortical activity across multiple regions involved in voluntary gait modifications in humans. <i>European Journal of Neuroscience</i> , 2021, 54, 8092-8105.	2.6	23
24	Selectivity and excitability of upper-limb muscle activation during cervical transcutaneous spinal cord stimulation in humans. <i>Journal of Applied Physiology</i> , 2021, 131, 746-759.	2.5	23
25	Invariable H-reflex and sustained facilitation of stretch reflex with heightened sympathetic outflow. <i>Journal of Electromyography and Kinesiology</i> , 2009, 19, 1053-1060.	1.7	21
26	Pitching form determines probabilistic structure of errors in pitch location. <i>Journal of Sports Sciences</i> , 2017, 35, 2142-2147.	2.0	21
27	Postural regulatory strategies during quiet sitting are affected in individuals with thoracic spinal cord injury. <i>Gait and Posture</i> , 2017, 58, 446-452.	1.4	21
28	Difference in phase modulation of corticospinal excitability during the observation of the action of walking, with and without motor imagery. <i>NeuroReport</i> , 2018, 29, 169-173.	1.2	21
29	Speed dependency in \pm -motoneuron activity and locomotor modules in human locomotion: indirect evidence for phylogenetically conserved spinal circuits. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20170290.	2.6	20
30	Short-term inhibition of spinal reflexes in multiple lower limb muscles after neuromuscular electrical stimulation of ankle plantar flexors. <i>Experimental Brain Research</i> , 2019, 237, 467-476.	1.5	20
31	Cortical reorganization of lower-limb motor representations in an elite archery athlete with congenital amputation of both arms. <i>NeuroImage: Clinical</i> , 2020, 25, 102144.	2.7	19
32	Effects of movement-related afferent inputs on spinal reflexes evoked by transcutaneous spinal cord stimulation during robot-assisted passive stepping. <i>Neuroscience Letters</i> , 2016, 627, 100-106.	2.1	18
33	Effects of neuromuscular electrical stimulation and voluntary commands on the spinal reflex excitability of remote limb muscles. <i>Experimental Brain Research</i> , 2019, 237, 3195-3205.	1.5	18
34	Basic locomotor muscle synergies used in land walking are finely tuned during underwater walking. <i>Scientific Reports</i> , 2021, 11, 18480.	3.3	17
35	Phase-dependent electromyographic activity of the lower-limb muscles of a patient with clinically complete spinal cord injury during orthotic gait. <i>Experimental Brain Research</i> , 1998, 120, 139-142.	1.5	16
36	Anticipatory modulation of neck muscle reflex responses induced by mechanical perturbations of the human forehead. <i>Neuroscience Letters</i> , 2004, 366, 206-210.	2.1	16

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37	Finger-to-Beat Coordination Skill of Non-dancers, Street Dancers, and the World Champion of a Street-Dance Competition. <i>Frontiers in Psychology</i> , 2016, 7, 542.	2.1	16
38	Baseball pitching accuracy: an examination of various parameters when evaluating pitch locations. <i>Sports Biomechanics</i> , 2017, 16, 399-410.	1.6	16
39	Differences in stretch reflex responses of elbow flexor muscles during shortening, lengthening and isometric contractions. <i>European Journal of Applied Physiology</i> , 1998, 77, 395-400.	2.5	15
40	Induction of locomotor-like EMG activity in paraplegic persons by orthotic gait training. <i>Experimental Brain Research</i> , 2004, 157, 117-123.	1.5	15
41	Changes in corticospinal excitability during observation of walking in humans. <i>NeuroReport</i> , 2008, 19, 727-731.	1.2	15
42	Evidence for existence of trunk-limb neural interaction in the corticospinal pathway. <i>Neuroscience Letters</i> , 2018, 668, 31-36.	2.1	15
43	Corticospinal Excitability Is Modulated as a Function of Postural Perturbation Predictability. <i>Frontiers in Human Neuroscience</i> , 2018, 12, 68.	2.0	15
44	Remote muscle contraction enhances spinal reflexes in multiple lower-limb muscles elicited by transcutaneous spinal cord stimulation. <i>Experimental Brain Research</i> , 2019, 237, 1793-1803.	1.5	14
45	Relationship Between Muscle Cocontraction and Proficiency in Whole-Body Sensorimotor Synchronization: A Comparison Study of Street Dancers and Nondancers. <i>Motor Control</i> , 2013, 17, 18-33.	0.6	13
46	The Effects of Temporal and Spatial Predictions on Stretch Reflexes of Ankle Flexor and Extensor Muscles While Standing. <i>PLoS ONE</i> , 2016, 11, e0158721.	2.5	13
47	Anticipation of direction and time of perturbation modulates the onset latency of trunk muscle responses during sitting perturbations. <i>Journal of Electromyography and Kinesiology</i> , 2016, 26, 94-101.	1.7	13
48	Speed-dependent and mode-dependent modulations of spatiotemporal modules in human locomotion extracted via tensor decomposition. <i>Scientific Reports</i> , 2020, 10, 680.	3.3	13
49	Cortical Re-organization After Traumatic Brain Injury Elicited Using Functional Electrical Stimulation Therapy: A Case Report. <i>Frontiers in Neuroscience</i> , 2021, 15, 693861.	2.8	13
50	Enhanced stretch reflex excitability of the soleus muscle in experienced swimmers. <i>European Journal of Applied Physiology</i> , 2009, 105, 199-205.	2.5	12
51	Posture-related modulation of cortical excitability in the tibialis anterior muscle in humans. <i>Brain Research</i> , 2014, 1577, 29-35.	2.2	12
52	Influence of motor imagery on spinal reflex excitability of multiple muscles. <i>Neuroscience Letters</i> , 2018, 668, 55-59.	2.1	12
53	Flexible Recruitments of Fundamental Muscle Synergies in the Trunk and Lower Limbs for Highly Variable Movements and Postures. <i>Sensors</i> , 2021, 21, 6186.	3.8	12
54	Repeatability of spinal reflexes of lower limb muscles evoked by transcutaneous spinal cord stimulation. <i>PLoS ONE</i> , 2019, 14, e0214818.	2.5	11

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55	Muscle-specific movement-phase-dependent modulation of corticospinal excitability during upper-limb motor execution and motor imagery combined with virtual action observation. <i>Neuroscience Letters</i> , 2021, 755, 135907.	2.1	11
56	Evidence for basic units of upper limb muscle synergies underlying a variety of complex human manipulations. <i>Journal of Neurophysiology</i> , 2022, 127, 958-968.	1.8	11
57	Effects of breathing movement on the reduction of postural sway during postural-cognitive dual tasking. <i>PLoS ONE</i> , 2018, 13, e0197385.	2.5	10
58	Influence of Release Parameters on Pitch Location in Skilled Baseball Pitching. <i>Frontiers in Sports and Active Living</i> , 2020, 2, 36.	1.8	10
59	Effect of different preparatory states on the reflex responses of ankle flexor and extensor muscles to a sudden drop of support surface during standing in humans. <i>Journal of Electromyography and Kinesiology</i> , 2009, 19, 782-788.	1.7	9
60	Short-term effect of electrical nerve stimulation on spinal reciprocal inhibition during robot-assisted passive stepping in humans. <i>European Journal of Neuroscience</i> , 2015, 42, 2283-2288.	2.6	9
61	Modulation of Hoffmann reflex excitability during action observation of walking with and without motor imagery. <i>Neuroscience Letters</i> , 2018, 684, 218-222.	2.1	9
62	Functional plasticity of the ipsilateral primary sensorimotor cortex in an elite long jumper with below-knee amputation. <i>NeuroImage: Clinical</i> , 2019, 23, 101847.	2.7	9
63	Interlimb neural interactions in corticospinal and spinal reflex circuits during preparation and execution of isometric elbow flexion. <i>Journal of Neurophysiology</i> , 2020, 124, 652-667.	1.8	9
64	Low-Intensity and Short-Duration Continuous Cervical Transcutaneous Spinal Cord Stimulation Intervention Does Not Prime the Corticospinal and Spinal Reflex Pathways in Able-Bodied Subjects. <i>Journal of Clinical Medicine</i> , 2021, 10, 3633.	2.4	9
65	Force Control of Ankle Dorsiflexors in Young Adults: Effects of Bilateral Control and Leg Dominance. <i>Journal of Motor Behavior</i> , 2020, 52, 226-235.	0.9	8
66	Robust Identification of Motor Unit Discharges From High-Density Surface EMG in Dynamic Muscle Contractions of the Tibialis Anterior. <i>IEEE Access</i> , 2021, 9, 123901-123911.	4.2	8
67	Different modulation pattern of spinal stretch reflex excitability in highly trained endurance runners. <i>European Journal of Applied Physiology</i> , 2012, 112, 3641-3648.	2.5	7
68	Short-term effects of electrical nerve stimulation on spinal reciprocal inhibition depend on gait phase during passive stepping. <i>Journal of Electromyography and Kinesiology</i> , 2018, 38, 151-154.	1.7	7
69	Remarkable hand grip steadiness in individuals with complete spinal cord injury. <i>Experimental Brain Research</i> , 2019, 237, 3175-3183.	1.5	7
70	Speed- and mode-dependent modulation of the center of mass trajectory in human gaits as revealed by Lissajous curves. <i>Journal of Biomechanics</i> , 2020, 110, 109947.	2.1	7
71	Velocity-dependent suppression of the soleus H-reflex during robot-assisted passive stepping. <i>Neuroscience Letters</i> , 2015, 584, 337-341.	2.1	6
72	Temporal, but not Directional, Prior Knowledge Shortens Muscle Reflex Latency in Response to Sudden Transition of Support Surface During Walking. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 29.	2.0	6

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73	Presetting of the Corticospinal Excitability in the Tibialis Anterior Muscle in Relation to Prediction of the Magnitude and Direction of Postural Perturbations. <i>Frontiers in Human Neuroscience</i> , 2019, 13, 4.	2.0	6
74	Muscle-Specific Modulation of Spinal Reflexes in Lower-Limb Muscles during Action Observation with and without Motor Imagery of Walking. <i>Brain Sciences</i> , 2019, 9, 333.	2.3	6
75	Neural decoding of gait phases during motor imagery and improvement of the decoding accuracy by concurrent action observation. <i>Journal of Neural Engineering</i> , 2021, 18, 046099.	3.5	6
76	Neural control of human gait and posture. <i>The Journal of Physical Fitness and Sports Medicine</i> , 2012, 1, 263-269.	0.3	5
77	Phase-dependent modulation of corticospinal excitability during the observation of the initial phase of gait. <i>Somatosensory & Motor Research</i> , 2014, 31, 209-213.	0.9	5
78	Velocity-dependent transfer of adaptation in human running as revealed by split-belt treadmill adaptation. <i>Experimental Brain Research</i> , 2018, 236, 1019-1029.	1.5	5
79	Effect of Paired Associative Stimulation on Corticomotor Excitability in Chronic Smokers. <i>Brain Sciences</i> , 2019, 9, 62.	2.3	5
80	Cortical and Subcortical Neural Interactions Between Trunk and Upper-limb Muscles in Humans. <i>Neuroscience</i> , 2020, 451, 126-136.	2.3	5
81	Motor Point Stimulation in Spinal Paired Associative Stimulation can Facilitate Spinal Cord Excitability. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 593806.	2.0	5
82	Specific Brain Reorganization Underlying Superior Upper Limb Motor Function After Spinal Cord Injury: A Multimodal MRI Study. <i>Neurorehabilitation and Neural Repair</i> , 2021, 35, 220-232.	2.9	5
83	Brain Reorganization and Neural Plasticity in Elite Athletes With Physical Impairments. <i>Exercise and Sport Sciences Reviews</i> , 2022, 50, 118-127.	3.0	5
84	Effects of action observation and motor imagery of walking on the corticospinal and spinal motoneuron excitability and motor imagery ability in healthy participants. <i>PLoS ONE</i> , 2022, 17, e0266000.	2.5	5
85	Heel strike detection using split force-plate treadmill. <i>Gait and Posture</i> , 2015, 41, 863-866.	1.4	4
86	Effects of anode position on the responses elicited by transcutaneous spinal cord stimulation. , 2017, 2017, 1114-1117.		4
87	Changes in corticospinal excitability during bilateral and unilateral lower-limb force control tasks. <i>Experimental Brain Research</i> , 2020, 238, 1977-1987.	1.5	4
88	Inter-muscle differences in modulation of motor evoked potentials and posterior root-muscle reflexes evoked from lower-limb muscles during agonist and antagonist muscle contractions. <i>Experimental Brain Research</i> , 2021, 239, 463-474.	1.5	4
89	Effort-dependent effects on uniform and diverse muscle activity features in skilled pitching. <i>Scientific Reports</i> , 2021, 11, 8211.	3.3	4
90	Control of Accuracy during Movements of High Speed: Implications from Baseball Pitching. <i>Journal of Motor Behavior</i> , 2022, 54, 304-315.	0.9	4

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91	Task- and Intensity-Dependent Modulation of Arm-Trunk Neural Interactions in the Corticospinal Pathway in Humans. <i>ENeuro</i> , 2021, 8, ENEURO.01111-21.2021.	1.9	4
92	Motor module activation sequence and topography in the spinal cord during airâ€stepping in human: Insights into the traveling wave in spinal locomotor circuits. <i>Physiological Reports</i> , 2017, 5, e13504.	1.7	3
93	Upper rate limits for one-to-one auditory-motor coordination involving whole-body oscillation: a study of street dancers and non-dancers. <i>Journal of Experimental Biology</i> , 2018, 221, .	1.7	3
94	Effects on Postural Kinematics of Performing a Cognitive Task During Upright Standing. <i>Perceptual and Motor Skills</i> , 2020, 127, 639-650.	1.3	3
95	Inducing lateralized phosphenes over the occipital lobe using transcranial magnetic stimulation to navigate a virtual environment. <i>PLoS ONE</i> , 2021, 16, e0249996.	2.5	3
96	Acquisition and maintenance of motor memory through specific motor practice over the long term as revealed by stretch reflex responses in older ballet dancers. <i>Physiological Reports</i> , 2020, 8, e14335.	1.7	3
97	Motor point stimulation induces more robust Fâ€waves than peripheral nerve stimulation. <i>European Journal of Neuroscience</i> , 2022, 55, 1614-1628.	2.6	3
98	Unique controlling mechanisms underlying walking with two handheld poles in contrast to those of conventional walking as revealed by split-belt locomotor adaptation. <i>Experimental Brain Research</i> , 2019, 237, 1699-1707.	1.5	2
99	â€Paralympic Brainâ€ Compensation and Reorganization of a Damaged Human Brain with Intensive Physical Training. <i>Sports</i> , 2020, 8, 46.	1.7	2
100	Precise force controls enhance loudness discrimination of self-generated sound. <i>Experimental Brain Research</i> , 2021, 239, 1141-1149.	1.5	2
101	Acquisition of novel ball-related skills associated with sports experience. <i>Scientific Reports</i> , 2021, 11, 12379.	3.3	2
102	The Effects of Paired Associative Stimulation with Transcutaneous Spinal Cord Stimulation on Corticospinal Excitability in Multiple Lower-limb Muscles. <i>Neuroscience</i> , 2021, 476, 45-59.	2.3	2
103	Neural control of muscle lengthening: Task- and muscle-specificity. <i>The Journal of Physical Fitness and Sports Medicine</i> , 2013, 2, 191-201.	0.3	2
104	Central Pattern Generator for Locomotion in Human Spinal Cord and Its Relevance to Locomotor Rehabilitation.. <i>The Japanese Journal of Rehabilitation Medicine</i> , 2003, 40, 68-75.	0.1	2
105	Effect of Long-Term Classical Ballet Dance Training on Postactivation Depression of the Soleus Hoffmann-Reflex. <i>Motor Control</i> , 2022, 26, 169-180.	0.6	2
106	Corticospinal excitability and somatosensory information processing of the lower limb muscle during upper limb voluntary or electrically induced muscle contractions. <i>European Journal of Neuroscience</i> , 2022, 55, 1810-1824.	2.6	2
107	Short-term facilitation effects elicited by cortical priming through theta burst stimulation and functional electrical stimulation of upper-limb muscles. <i>Experimental Brain Research</i> , 2022, , 1.	1.5	2
108	Asymmetrical Neural Adaptation in Lower Leg Muscles as a Consequence of Stereotypical Motor Training. <i>Journal of Motor Behavior</i> , 2012, 44, 63-68.	0.9	1

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109	Spatiotemporal characteristics of locomotor adaptation of walking with two handheld poles. <i>Experimental Brain Research</i> , 2020, 238, 2973-2982.	1.5	1
110	Intra-limb modulations of posterior root-muscle reflexes evoked from the lower-limb muscles during isometric voluntary contractions. <i>Experimental Brain Research</i> , 2021, 239, 3035-3043.	1.5	1
111	Para-Sports can Promote Functional Reorganization in the Ipsilateral Primary Motor Cortex of Lower Limbs Amputee. <i>Neurorehabilitation and Neural Repair</i> , 2021, 35, 1112-1123.	2.9	1
112	Development and Validation of a Closed-Loop Functional Electrical Stimulation-Based Controller for Gait Rehabilitation Using a Finite State Machine Model. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2022, 30, 1642-1651.	4.9	1
113	Method for evaluation of fractal properties from data with noisy observational errors. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , 2013, 8, 247-252.	1.4	0
114	Cross-sectional comparison of the probabilistic structure in the distribution of pitching location among baseball pitchers of different ages. <i>Sports Biomechanics</i> , 2024, 23, 81-94.	1.6	0
115	Neurophysiological Understanding of Normal and Abnormal Gait by Electromyogram and Electroencephalogram. <i>The Japanese Journal of Rehabilitation Medicine</i> , 2021, 58, 128-134.	0.0	0
116	Development of a robotic walking training apparatus : Development of walk system. <i>The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME</i> , 2003, 2003.15, 99-100.	0.0	0
117	Effects of lateral wedged insoles on knee osteoarthritis : A motion analytic study. <i>The Proceedings of Joint Symposium Symposium on Sports Engineering Symposium on Human Dynamics</i> , 2003, 2003, 63-66.	0.0	0
118	3D1-01 Characteristics of the muscle activity by inducing passive locomotor-like leg motions. <i>The Proceedings of the JSME Symposium on Welfare Engineering</i> , 2006, 2006, 232-233.	0.0	0
119	609 Effect of passive stepping on the wrist flexor H-reflex. <i>The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME</i> , 2008, 2007.20, 221-222.	0.0	0
120	610 On neural mechanisms of soleus H-reflex modulation during walking in healthy subjects. <i>The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME</i> , 2008, 2007.20, 223-224.	0.0	0
121	Timing Control Strategy in Baseball Batting. <i>The Brain & Neural Networks</i> , 2017, 24, 124-131.	0.1	0
122	Effects of Occasional and Habitual Wearing of High-Heeled Shoes on Static Balance in Young Women. <i>Frontiers in Sports and Active Living</i> , 2022, 4, 760991.	1.8	0
123	Enhancement of loudness discrimination acuity for self-generated sound is independent of musical experience. <i>PLoS ONE</i> , 2021, 16, e0260859.	2.5	0