

The neural origin of muscle synergies

Frontiers in Computational Neuroscience

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Plasticity and modular control of locomotor patterns in neurological disorders with motor deficits. <i>Frontiers in Computational Neuroscience</i> , 2013, 7, 123.	1.2	38
2	Extracting and study of synchronous muscle synergies during fast arm reaching movements. , 2013, , .		5
3	Effects of Cathodal Trans-Spinal Direct Current Stimulation on Mouse Spinal Network and Complex Multijoint Movements. <i>Journal of Neuroscience</i> , 2013, 33, 14949-14957.	1.7	44
4	Modularizing speech. <i>Frontiers in Psychology</i> , 2013, 4, 977.	1.1	32
5	Effort minimization and synergistic muscle recruitment for three-dimensional force generation. <i>Frontiers in Computational Neuroscience</i> , 2013, 7, 186.	1.2	25
6	A computational analysis of motor synergies by dynamic response decomposition. <i>Frontiers in Computational Neuroscience</i> , 2013, 7, 191.	1.2	25
7	Effective force control by muscle synergies. <i>Frontiers in Computational Neuroscience</i> , 2014, 8, 46.	1.2	93
8	Distinct neural patterns enable grasp types decoding in monkey dorsal premotor cortex. <i>Journal of Neural Engineering</i> , 2014, 11, 066011.	1.8	16
9	A Tool for Balance Control Training Using Muscle Synergies and Multimodal Interfaces. <i>BioMed Research International</i> , 2014, 2014, 1-13.	0.9	19
10	Modular organization of reaching and grasping movements investigated using EEG microstates. , 2014, 2014, 2093-6.		6
11	Effect of vastus lateralis fatigue on load sharing between quadriceps femoris muscles during isometric knee extensions. <i>Journal of Neurophysiology</i> , 2014, 111, 768-776.	0.9	67
12	A unifying model of concurrent spatial and temporal modularity in muscle activity. <i>Journal of Neurophysiology</i> , 2014, 111, 675-693.	0.9	80
13	Shared muscle synergies in human walking and cycling. <i>Journal of Neurophysiology</i> , 2014, 112, 1984-1998.	0.9	119
14	On Nonnegative Matrix Factorization Algorithms for Signal-Dependent Noise with Application to Electromyography Data. <i>Neural Computation</i> , 2014, 26, 1128-1168.	1.3	35
15	Muscle synergies evoked by microstimulation are preferentially encoded during behavior. <i>Frontiers in Computational Neuroscience</i> , 2014, 8, 20.	1.2	56
16	The flexible recruitment of muscle synergies depends on the required force-generating capability. <i>Journal of Neurophysiology</i> , 2014, 112, 316-327.	0.9	43
17	The effect of arm weight support on upper limb muscle synergies during reaching movements. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2014, 11, 22.	2.4	93
18	Partial weight support differentially affects corticomotor excitability across muscles of the upper limb. <i>Physiological Reports</i> , 2014, 2, e12183.	0.7	14

#	ARTICLE	IF	CITATIONS
19	The Use of Hebbian Cell Assemblies for Nonlinear Computation. Scientific Reports, 2015, 5, 12866.	1.6	29
20	The Hand: Shall We Ever Understand How It Works?. Motor Control, 2015, 19, 108-126.	0.3	4
21	Muscle synergies and spinal maps are sensitive to the asymmetry induced by a unilateral stroke. Journal of NeuroEngineering and Rehabilitation, 2015, 12, 39.	2.4	34
22	Partial weight support of the arm affects corticomotor selectivity of biceps brachii. Journal of NeuroEngineering and Rehabilitation, 2015, 12, 94.	2.4	10
23	A neural circuitry that emphasizes spinal feedback generates diverse behaviours of human locomotion. Journal of Physiology, 2015, 593, 3493-3511.	1.3	216
24	Action Direction of Muscle Synergies in Three-Dimensional Force Space. Frontiers in Bioengineering and Biotechnology, 2015, 3, 187.	2.0	7
25	On the Origin of Muscle Synergies: Invariant Balance in the Co-activation of Agonist and Antagonist Muscle Pairs. Frontiers in Bioengineering and Biotechnology, 2015, 3, 192.	2.0	26
26	Physiological modules for generating discrete and rhythmic movements: component analysis of EMG signals. Frontiers in Computational Neuroscience, 2014, 8, 169.	1.2	9
27	Linear summation of outputs in a balanced network model of motor cortex. Frontiers in Computational Neuroscience, 2015, 9, 63.	1.2	5
28	A predictive model of muscle excitations based on muscle modularity for a large repertoire of human locomotion conditions. Frontiers in Computational Neuroscience, 2015, 9, 114.	1.2	45
29	Editorial: Modularity in motor control: from muscle synergies to cognitive action representation. Frontiers in Computational Neuroscience, 2015, 9, 126.	1.2	52
30	Are Movement Disorders and Sensorimotor Injuries Pathologic Synergies? When Normal Multi-Joint Movement Synergies Become Pathologic. Frontiers in Human Neuroscience, 2014, 8, 1050.	1.0	49
31	Task-discriminative space-by-time factorization of muscle activity. Frontiers in Human Neuroscience, 2015, 9, 399.	1.0	23
32	Sensory synergy as environmental input integration. Frontiers in Neuroscience, 2014, 8, 436.	1.4	28
33	Effect of handedness on muscle synergies during upper limb planar movements. , 2015, 2015, 3452-5.		7
34	Decomposing time series data by a non-negative matrix factorization algorithm with temporally constrained coefficients. , 2015, 2015, 3496-9.		17
35	A Hard Scientific Quest: Understanding Voluntary Movements. Daedalus, 2015, 144, 83-95.	0.9	19
36	Mechanical Impedance and Its Relations to Motor Control, Limb Dynamics, and Motion Biomechanics. Journal of Medical and Biological Engineering, 2015, 35, 1-20.	1.0	32

#	ARTICLE	IF	CITATIONS
37	Exploring the high-dimensional structure of muscle redundancy via subject-specific and generic musculoskeletal models. <i>Journal of Biomechanics</i> , 2015, 48, 2887-2896.	0.9	39
38	Is there a reliable and invariant set of muscle synergy during isometric biaxial trunk exertion in the sagittal and transverse planes by healthy subjects?. <i>Journal of Biomechanics</i> , 2015, 48, 3234-3241.	0.9	11
39	The role of synergies within generative models of action execution and recognition: A computational perspective. <i>Physics of Life Reviews</i> , 2015, 12, 114-117.	1.5	4
40	Inference and representations of hand actions through grasping synergies. <i>Physics of Life Reviews</i> , 2015, 12, 118-119.	1.5	1
41	Recruitment of muscle synergies is associated with endpoint force fluctuations during multi-directional isometric contractions. <i>Experimental Brain Research</i> , 2015, 233, 1811-1823.	0.7	9
42	Neuromechanical Principles Underlying Movement Modularity and Their Implications for Rehabilitation. <i>Neuron</i> , 2015, 86, 38-54.	3.8	305
43	Influence of trajectory and speed profile on muscle organization during robot-aided training. , 2015, , .		5
44	Brain Connectivity Associated with Muscle Synergies in Humans. <i>Journal of Neuroscience</i> , 2015, 35, 14708-14716.	1.7	51
45	How do treadmill speed and terrain visibility influence neuromuscular control of guinea fowl locomotion?. <i>Journal of Experimental Biology</i> , 2015, 218, 3010-22.	0.8	26
46	Motor Neuron Pools of Synergistic Thigh Muscles Share Most of Their Synaptic Input. <i>Journal of Neuroscience</i> , 2015, 35, 12207-12216.	1.7	114
47	Space-by-time manifold representation of dynamic facial expressions for emotion categorization. <i>Journal of Vision</i> , 2016, 16, 14.	0.1	24
48	Suboptimal Muscle Synergy Activation Patterns Generalize their Motor Function across Postures. <i>Frontiers in Computational Neuroscience</i> , 2016, 10, 7.	1.2	15
49	Uncontrolled Manifold Reference Feedback Control of Multi-Joint Robot Arms. <i>Frontiers in Computational Neuroscience</i> , 2016, 10, 69.	1.2	5
50	Novel Methods to Enhance Precision and Reliability in Muscle Synergy Identification during Walking. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 455.	1.0	33
51	Are Modular Activations Altered in Lower Limb Muscles of Persons with Multiple Sclerosis during Walking? Evidence from Muscle Synergies and Biomechanical Analysis. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 620.	1.0	42
52	3Mo: A Model for Music-Based Biofeedback. <i>Frontiers in Neuroscience</i> , 2016, 10, 548.	1.4	22
53	Muscle Synergies Heavily Influence the Neural Control of Arm Endpoint Stiffness and Energy Consumption. <i>PLoS Computational Biology</i> , 2016, 12, e1004737.	1.5	47
54	How Variability and Effort Determine Coordination at Large Forces. <i>PLoS ONE</i> , 2016, 11, e0149512.	1.1	4

#	ARTICLE	IF	CITATIONS
55	A Quasi-Likelihood Approach to Nonnegative Matrix Factorization. <i>Neural Computation</i> , 2016, 28, 1663-1693.	1.3	7
56	Muscle synergies for reliable NAO arm motion control: An online simulation with real-time constraints. , 2016, , .		1
57	Modular control during incline and level walking in humans. <i>Journal of Experimental Biology</i> , 2017, 220, 807-813.	0.8	19
58	Equilibrium-point-based synergies that encode coordinates in task space: A practical method for translating functional synergies from human to musculoskeletal robot arm. , 2016, , .		1
59	Sparse Eigenmotions derived from daily life kinematics implemented on a dextrous robotic hand. , 2016, , .		8
60	Functional connectivity in the neuromuscular system underlying bimanual coordination. <i>Journal of Neurophysiology</i> , 2016, 116, 2576-2585.	0.9	52
61	Transferring synergies from neuroscience to robotics. <i>Physics of Life Reviews</i> , 2016, 17, 27-32.	1.5	14
62	Neural Data-Driven Musculoskeletal Modeling for Personalized Neurorehabilitation Technologies. <i>IEEE Transactions on Biomedical Engineering</i> , 2016, 63, 879-893.	2.5	121
63	Synergy temporal sequences and topography in the spinal cord: evidence for a traveling wave in frog locomotion. <i>Brain Structure and Function</i> , 2016, 221, 3869-3890.	1.2	17
64	Cortical circuits and modules in movement generation: experiments and theories. <i>Current Opinion in Neurobiology</i> , 2016, 41, 174-178.	2.0	23
65	Ecologizing Dimensionality: Prospects for a Modular Theory of Speech Production. <i>Ecological Psychology</i> , 2016, 28, 176-181.	0.7	16
66	Principal Component Analysis Applied to Surface Electromyography: A Comprehensive Review. <i>IEEE Access</i> , 2016, 4, 4025-4037.	2.6	58
67	Extracting Muscle Synergy Patterns from EMG Data Using Autoencoders. <i>Lecture Notes in Computer Science</i> , 2016, , 47-54.	1.0	10
68	An Optogenetic Demonstration of Motor Modularity in the Mammalian Spinal Cord. <i>Scientific Reports</i> , 2016, 6, 35185.	1.6	45
69	Short latency hand movement classification based on surface EMG spectrogram with PCA. , 2016, 2016, 327-330.		28
70	Muscle synergies during bench press are reliable across days. <i>Journal of Electromyography and Kinesiology</i> , 2016, 30, 81-88.	0.7	25
71	Hand synergies: Integration of robotics and neuroscience for understanding the control of biological and artificial hands. <i>Physics of Life Reviews</i> , 2016, 17, 1-23.	1.5	191
72	Repeatability of muscle synergies within and between days for typically developing children and children with cerebral palsy. <i>Gait and Posture</i> , 2016, 45, 127-132.	0.6	60

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73	The effect of parameters of equilibrium-based 3-D biomechanical models on extracted muscle synergies during isometric lumbar exertion. <i>Journal of Biomechanics</i> , 2016, 49, 967-973.	0.9	10
74	Tuning of Muscle Synergies During Walking Along Rectilinear and Curvilinear Trajectories in Humans. <i>Annals of Biomedical Engineering</i> , 2017, 45, 1204-1218.	1.3	47
75	On identifying kinematic and muscle synergies: a comparison of matrix factorization methods using experimental data from the healthy population. <i>Journal of Neurophysiology</i> , 2017, 117, 290-302.	0.9	51
76	Spectral properties of multiple myoelectric signals: New insights into the neural origin of muscle synergies. <i>Neuroscience</i> , 2017, 355, 22-35.	1.1	19
77	Optimal motor synergy extraction for novel actions and virtual environments. <i>Journal of Neurophysiology</i> , 2017, 118, 652-654.	0.9	1
78	Increased neuromuscular consistency in gait and balance after partnered, dance-based rehabilitation in Parkinson's disease. <i>Journal of Neurophysiology</i> , 2017, 118, 363-373.	0.9	74
79	EEG topographies provide subject-specific correlates of motor control. <i>Scientific Reports</i> , 2017, 7, 13229.	1.6	35
80	Data sample size needed for analysis of kinematic and muscle synergies in healthy and stroke populations. , 2017, 2017, 777-782.		2
81	Effect of human-robot interaction on muscular synergies on healthy people and post-stroke chronic patients. , 2017, 2017, 527-532.		4
82	Muscle synergy of biceps brachii and online classification of upper limb posture. , 2017, , .		1
83	Neural synergies for controlling reach and grasp movement in macaques. <i>Neuroscience</i> , 2017, 357, 372-383.	1.1	7
84	Influence of spinal disc translational stiffness on the lumbar spinal loads, ligament forces and trunk muscle forces during upper body inclination. <i>Medical Engineering and Physics</i> , 2017, 46, 54-62.	0.8	14
85	Intermuscular coherence reflects functional coordination. <i>Journal of Neurophysiology</i> , 2017, 118, 1775-1783.	0.9	69
86	On the Methodological Implications of Extracting Muscle Synergies from Human Locomotion. <i>International Journal of Neural Systems</i> , 2017, 27, 1750007.	3.2	83
87	Posture interacts with arm weight support to modulate corticomotor excitability to the upper limb. <i>Experimental Brain Research</i> , 2017, 235, 97-107.	0.7	4
88	Identification of shoulder muscle synergies in healthy subjects during an isometric task. , 2017, 2017, 134-139.		6
89	The Influence of Footwear on the Modular Organization of Running. <i>Frontiers in Physiology</i> , 2017, 8, 958.	1.3	29
90	Experimental Validation of Motor Primitive-Based Control for Leg Exoskeletons during Continuous Multi-Locomotion Tasks. <i>Frontiers in Neurorobotics</i> , 2017, 11, 15.	1.6	34

#	ARTICLE	IF	CITATIONS
91	Electromyography Data Processing Impacts Muscle Synergies during Gait for Unimpaired Children and Children with Cerebral Palsy. <i>Frontiers in Computational Neuroscience</i> , 2017, 11, 50.	1.2	87
92	Evaluation of Functional Correlation of Task-Specific Muscle Synergies with Motor Performance in Patients Poststroke. <i>Frontiers in Neurology</i> , 2017, 8, 337.	1.1	38
93	Elucidating Sensorimotor Control Principles with Myoelectric Musculoskeletal Models. <i>Frontiers in Human Neuroscience</i> , 2017, 11, 531.	1.0	3
94	Comparison of muscle synergies before and after 10 minutes of running. <i>Journal of Physical Therapy Science</i> , 2017, 29, 1242-1246.	0.2	15
96	Evaluating upper limb impairments in multiple sclerosis by exposure to different mechanical environments. <i>Scientific Reports</i> , 2018, 8, 2110.	1.6	71
97	Neuromuscular synergies in motor control in normal and poststroke individuals. <i>Reviews in the Neurosciences</i> , 2018, 29, 593-612.	1.4	21
98	Challenging human locomotion: stability and modular organisation in unsteady conditions. <i>Scientific Reports</i> , 2018, 8, 2740.	1.6	113
99	Goal-Directed Reasoning and Cooperation in Robots in Shared Workspaces: an Internal Simulation Based Neural Framework. <i>Cognitive Computation</i> , 2018, 10, 558-576.	3.6	7
100	How are Muscle Synergies Affected by Electromyography Pre-Processing?. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2018, 26, 882-893.	2.7	56
101	Specific muscle synergies in national elite female ice hockey players in response to unexpected external perturbation. <i>Journal of Sports Sciences</i> , 2018, 36, 319-325.	1.0	28
102	Synchronization matters for motor coordination. <i>Journal of Neurophysiology</i> , 2018, 119, 767-770.	0.9	3
103	Synergies and Motor Equivalence in Voluntary Sway Tasks: The Effects of Visual and Mechanical Constraints. <i>Journal of Motor Behavior</i> , 2018, 50, 492-509.	0.5	11
104	Biotensegrity and myofascial chains: A global approach to an integrated kinetic chain. <i>Medical Hypotheses</i> , 2018, 110, 90-96.	0.8	43
105	Making the Coupled Gaussian Process Dynamical Model Modular and Scalable with Variational Approximations. <i>Entropy</i> , 2018, 20, 724.	1.1	3
106	A Multiparameter Approach to Evaluate Post-Stroke Patients: An Application on Robotic Rehabilitation. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 2248.	1.3	24
107	Using Muscle Synergy to Evaluate the Neck Muscular Activities during Normal Swallowing. , 2018, 2018, 2454-2457.		4
108	Modular Control of Human Movement During Running: An Open Access Data Set. <i>Frontiers in Physiology</i> , 2018, 9, 1509.	1.3	37
109	Consistent visuomotor adaptations and generalizations can be achieved through different rotations of robust motor modules. <i>Scientific Reports</i> , 2018, 8, 12657.	1.6	23

#	ARTICLE	IF	CITATIONS
110	Highlights from the 28th Annual Meeting of the Society for the Neural Control of Movement. Journal of Neurophysiology, 2018, 120, 1671-1679.	0.9	7
111	Synergies in coordination: a comprehensive overview of neural, computational, and behavioral approaches. Journal of Neurophysiology, 2018, 120, 2761-2774.	0.9	58
112	Pathological Upper Limb Synergies of Patients with Poststroke Hemiparesis. Neuroscience and Behavioral Physiology, 2018, 48, 813-822.	0.2	3
113	Modularity speeds up motor learning by overcoming mechanical bias in musculoskeletal geometry. Journal of the Royal Society Interface, 2018, 15, 20180249.	1.5	13
114	You are better off running than walking revisited: Does an acute vestibular imbalance affect muscle synergies?. Human Movement Science, 2018, 62, 150-160.	0.6	11
115	Intra-auditory integration between pitch and loudness in humans: Evidence of super-optimal integration at moderate uncertainty in auditory signals. Scientific Reports, 2018, 8, 13708.	1.6	3
116	Feasibility Theory Reconciles and Informs Alternative Approaches to Neuromuscular Control. Frontiers in Computational Neuroscience, 2018, 12, 62.	1.2	16
117	Robotic Assistance for Upper Limbs May Induce Slight Changes in Motor Modules Compared With Free Movements in Stroke Survivors: A Cluster-Based Muscle Synergy Analysis. Frontiers in Human Neuroscience, 2018, 12, 290.	1.0	14
118	Effect of Task Failure on Intermuscular Coherence Measures in Synergistic Muscles. Applied Bionics and Biomechanics, 2018, 2018, 1-13.	0.5	10
119	Kinematic and electromyographic analysis of the Askling Lâ€Protocol for hamstring training. Scandinavian Journal of Medicine and Science in Sports, 2018, 28, 2536-2546.	1.3	16
120	Encoding of Articulatory Kinematic Trajectories in Human Speech Sensorimotor Cortex. Neuron, 2018, 98, 1042-1054.e4.	3.8	141
121	A Systematic Review on Muscle Synergies: From Building Blocks of Motor Behavior to a Neurorehabilitation Tool. Applied Bionics and Biomechanics, 2018, 2018, 1-15.	0.5	66
122	Comparison of Initialization Techniques for the Accurate Extraction of Muscle Synergies from Myoelectric Signals via Nonnegative Matrix Factorization. Applied Bionics and Biomechanics, 2018, 2018, 1-10.	0.5	18
123	Muscle synergies approach and perspective on application to robot-assisted rehabilitation. , 2018, , 319-331.		7
124	Assessing User Transparency with Muscle Synergies during Exoskeleton-Assisted Movements: A Pilot Study on the LIGHTArm Device for Neurorehabilitation. Applied Bionics and Biomechanics, 2018, 2018, 1-10.	0.5	5
125	Non-neural Muscle Weakness Has Limited Influence on Complexity of Motor Control during Gait. Frontiers in Human Neuroscience, 2018, 12, 5.	1.0	33
126	EMG factorization during walking: does digital filtering influence the accuracy in the evaluation of the muscle synergy number?. , 2018, , .		2
127	Muscle Activity Analysis Using Higher-Order Tensor Decomposition: Application to Muscle Synergy Extraction. IEEE Access, 2019, 7, 27257-27271.	2.6	13

#	ARTICLE	IF	CITATIONS
128	Fascial organisation of motor synergies: a hypothesis. <i>European Journal of Translational Myology</i> , 2019, 29, 8313.	0.8	6
129	An experimental and computational framework for modeling multi-muscle responses to transcranial magnetic stimulation of the human motor cortex. , 2019, 2019, 1122-1125.		5
130	Evaluation of the Complexity of Control of Simple Linear Hand Movements Using Principal Component Analysis. <i>Neurophysiology</i> , 2019, 51, 132-140.	0.2	4
131	Achieving Neural Compatibility With Human Sensorimotor Control in Prosthetic and Therapeutic Devices. <i>IEEE Transactions on Medical Robotics and Bionics</i> , 2019, 1, 122-134.	2.1	16
132	Model for prompt and effective classification of motion recovery after stroke considering muscle strength and coordination factors. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2019, 16, 130.	2.4	9
133	Myofascial trigger points alter the modular control during the execution of a reaching task: a pilot study. <i>Scientific Reports</i> , 2019, 9, 16065.	1.6	6
134	The human central nervous system transmits common synaptic inputs to distinct motor neuron pools during non- synergistic digit actions. <i>Journal of Physiology</i> , 2019, 597, 5935-5948.	1.3	42
135	Neuromuscular organisation and robustness of postural control in the presence of perturbations. <i>Scientific Reports</i> , 2019, 9, 12273.	1.6	27
136	Assessment of upper limb muscle synergies for industrial overhead tasks: a preliminary study. , 2019, , .		15
137	A Comprehensive Spatial Mapping of Muscle Synergies in Highly Variable Upper-Limb Movements of Healthy Subjects. <i>Frontiers in Physiology</i> , 2019, 10, 1231.	1.3	54
138	Functional organization of motor networks in the lumbosacral spinal cord of non-human primates. <i>Scientific Reports</i> , 2019, 9, 13539.	1.6	13
139	The human sensorimotor cortex fosters muscle synergies through cortico-synergy coherence. <i>NeuroImage</i> , 2019, 199, 30-37.	2.1	53
140	Motor Control After Human SCI Through Activation of Muscle Synergies Under Spinal Cord Stimulation. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2019, 27, 1331-1340.	2.7	12
141	The impact of evoked cutaneous afferents on voluntary reaching movement in patients with Parkinson's disease. <i>Journal of Neural Engineering</i> , 2019, 16, 036029.	1.8	11
142	Constrained particle filtering for movement identification in forearm prosthesis. <i>Signal Processing</i> , 2019, 161, 25-35.	2.1	9
143	Fixed muscle synergies and their potential to improve the intuitive control of myoelectric assistive technology for upper extremities. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2019, 16, 6.	2.4	21
144	The effects of different tracking tasks on muscle synergy through visual feedback. , 2019, 2019, 417-420.		1
145	Muscle Synergy Constraints Do Not Improve Estimates of Muscle Activity From Static Optimization During Gait for Unimpaired Children or Children With Cerebral Palsy. <i>Frontiers in Neurorobotics</i> , 2019, 13, 102.	1.6	9

#	ARTICLE	IF	CITATIONS
146	An Approach to Extract Nonlinear Muscle Synergies from sEMG through Multi-Model Learning. , 2019, 2019, 2297-2301.		1
147	Synergies reciprocally relate end-effector and joint-angles in rhythmic pointing movements. Scientific Reports, 2019, 9, 17378.	1.6	6
148	Effects of arm weight support on neuromuscular activation during reaching in chronic stroke patients. Experimental Brain Research, 2019, 237, 3391-3408.	0.7	13
149	Biceps Brachii Muscle Synergy and Target Reaching in a Virtual Environment. Frontiers in Neurorobotics, 2019, 13, 100.	1.6	0
150	Native Language Influence on Brass Instrument Performance: An Application of Generalized Additive Mixed Models (GAMMs) to Midsagittal Ultrasound Images of the Tongue. Frontiers in Psychology, 2019, 10, 2597.	1.1	11
151	Cortical dynamics during preparation and execution of reactive balance responses with distinct postural demands. NeuroImage, 2019, 188, 557-571.	2.1	85
152	Spinal control of muscle synergies for adult mammalian locomotion. Journal of Physiology, 2019, 597, 333-350.	1.3	46
153	A Novel FES Strategy for Poststroke Rehabilitation Based on the Natural Organization of Neuromuscular Control. IEEE Reviews in Biomedical Engineering, 2019, 12, 154-167.	13.1	27
154	Linking Individual Movements to a Skilled Repertoire: Fast Modulation of Motor Synergies by Repetition of Stereotyped Movements. Cerebral Cortex, 2020, 30, 1185-1198.	1.6	8
155	Deconstructing Hunting Behavior Reveals a Tightly Coupled Stimulus-Response Loop. Current Biology, 2020, 30, 54-69.e9.	1.8	96
156	Muscle activities in similar arms performing identical tasks reveal the neural basis of muscle synergies. Experimental Brain Research, 2020, 238, 121-138.	0.7	10
157	Modularity underlying the performance of unusual locomotor tasks inspired by developmental milestones. Journal of Neurophysiology, 2020, 123, 496-510.	0.9	6
158	Load Magnitude and Locomotion Pattern Alter Locomotor System Function in Healthy Young Adult Women. Frontiers in Bioengineering and Biotechnology, 2020, 8, 582219.	2.0	12
159	A Muscle Synergy Framework for Cross-Limb Reconstruction of Hand Muscle Activity Distal to a Virtual Wrist-Level Disarticulation. , 2020, 2020, 3285-3288.		1
160	Evaluation of Motor Primitive-Based Adaptive Control for Lower Limb Exoskeletons. Frontiers in Robotics and AI, 2020, 7, 575217.	2.0	7
161	The reaching movement in breast cancer survivors: Attention to the principles of rehabilitation. Journal of Bodywork and Movement Therapies, 2020, 24, 102-108.	0.5	6
162	Altered Muscle Networks in Post-Stroke Survivors. , 2020, 2020, 3771-3774.		3
163	Muscle Synergy Control During Hand Reach Task on Varying Shoulder Configuration. , 2020, 2020, 4839-4843.		3

#	ARTICLE	IF	CITATIONS
164	Plasticity of muscle synergies through fractionation and merging during development and training of human runners. <i>Nature Communications</i> , 2020, 11, 4356.	5.8	68
165	Accuracy of older adults in judging self-generated elbow torques during multi-joint isometric tasks. <i>Scientific Reports</i> , 2020, 10, 13011.	1.6	6
166	Proficiency-based recruitment of muscle synergies in a highly perturbed walking task (slackline). <i>Engineering Reports</i> , 2020, 2, e12253.	0.9	7
167	Clinical Relevance of State-of-the-Art Analysis of Surface Electromyography in Cerebral Palsy. <i>Frontiers in Neurology</i> , 2020, 11, 583296.	1.1	10
168	Muscle Synergies Reliability in the Power Clean Exercise. <i>Journal of Functional Morphology and Kinesiology</i> , 2020, 5, 75.	1.1	5
169	Non-negative matrix factorisation is the most appropriate method for extraction of muscle synergies in walking and running. <i>Scientific Reports</i> , 2020, 10, 8266.	1.6	67
170	Motor Synergy Development in High-Performing Deep Reinforcement Learning Algorithms. <i>IEEE Robotics and Automation Letters</i> , 2020, 5, 1271-1278.	3.3	24
171	Task-Oriented Muscle Synergy Extraction Using An Autoencoder-Based Neural Model. <i>Information (Switzerland)</i> , 2020, 11, 219.	1.7	10
172	A multimodal approach to capture post-stroke temporal dynamics of recovery. <i>Journal of Neural Engineering</i> , 2020, 17, 045002.	1.8	31
173	Characterizing Motor Control of Mastication With Soft Actor-Critic. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 188.	1.0	3
174	Muscle Synergies in Parkinson's Disease. <i>Sensors</i> , 2020, 20, 3209.	2.1	18
175	Does the cerebellum shape the spatiotemporal organization of muscle patterns? Insights from subjects with cerebellar ataxias. <i>Journal of Neurophysiology</i> , 2020, 123, 1691-1710.	0.9	27
176	A Proposed Postural Control Theory Synthesizing Optimal Feedback Control Theory, Postural Motor Learning, and Cerebellar Supervision Learning. <i>Perceptual and Motor Skills</i> , 2020, 127, 1118-1133.	0.6	4
177	Muscle Synergies During Walking in Children With Cerebral Palsy: A Systematic Review. <i>Frontiers in Physiology</i> , 2020, 11, 632.	1.3	24
178	Muscle Synergies Extracted Using Principal Activations: Improvement of Robustness and Interpretability. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020, 28, 453-460.	2.7	24
179	Modulating the Structure of Motor Variability for Skill Learning Through Specific Muscle Synergies in Elderlies and Young Adults. <i>IEEE Open Journal of Engineering in Medicine and Biology</i> , 2020, 1, 33-40.	1.7	16
180	Sex Steroids as Regulators of Gestural Communication. <i>Endocrinology</i> , 2020, 161, .	1.4	9
181	Fuzziness of muscle synergies in patients with multiple sclerosis indicates increased robustness of motor control during walking. <i>Scientific Reports</i> , 2020, 10, 7249.	1.6	25

#	ARTICLE	IF	CITATIONS
182	Using an unbiased symbolic movement representation to characterize Parkinson's disease states. <i>Scientific Reports</i> , 2020, 10, 7377.	1.6	13
183	Robot-Driven Locomotor Perturbations Reveal Synergy-Mediated, Context-Dependent Feedforward and Feedback Mechanisms of Adaptation. <i>Scientific Reports</i> , 2020, 10, 5104.	1.6	18
184	When 90% of the variance is not enough: residual EMG from muscle synergy extraction influences task performance. <i>Journal of Neurophysiology</i> , 2020, 123, 2180-2190.	0.9	22
185	Distinct locomotor precursors in newborn babies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 9604-9612.	3.3	45
186	Muscles from the same muscle group do not necessarily share common drive: evidence from the human triceps surae. <i>Journal of Applied Physiology</i> , 2021, 130, 342-354.	1.2	61
187	Usefulness of Muscle Synergy Analysis in Individuals With Knee Osteoarthritis During Gait. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2021, 29, 239-248.	2.7	15
188	Synergistic Activation Patterns of Hand Muscles in Left-and Right-Hand Dominant Individuals. <i>Journal of Human Kinetics</i> , 2021, 76, 89-100.	0.7	4
189	Neuromechanics of Dynamic Balance Tasks in the Presence of Perturbations. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 560630.	1.0	5
190	Alterations in Muscle Networks in the Upper Extremity of Chronic Stroke Survivors. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2021, 29, 1026-1034.	2.7	14
191	How to improve the muscle synergy analysis methodology?. <i>European Journal of Applied Physiology</i> , 2021, 121, 1009-1025.	1.2	43
192	Motor Function Assessment of Upper Limb in Stroke Patients. <i>Journal of Healthcare Engineering</i> , 2021, 2021, 1-11.	1.1	22
193	Intermuscular Coordination in the Power Clean Exercise: Comparison between Olympic Weightlifters and Untrained Individuals—A Preliminary Study. <i>Sensors</i> , 2021, 21, 1904.	2.1	6
194	Shoulder position and handedness differentially affect excitability and intracortical inhibition of hand muscles. <i>Experimental Brain Research</i> , 2021, 239, 1517-1530.	0.7	0
195	A randomized controlled trial on the effects induced by robot-assisted and usual-care rehabilitation on upper limb muscle synergies in post-stroke subjects. <i>Scientific Reports</i> , 2021, 11, 5323.	1.6	18
196	Effects of Hemispheric Stroke Localization on the Reorganization of Arm Movements within Different Mechanical Environments. <i>Life</i> , 2021, 11, 383.	1.1	13
197	Neuromuscular Control before and after Independent Walking Onset in Children with Cerebral Palsy. <i>Sensors</i> , 2021, 21, 2714.	2.1	5
198	Gesture Recognition Using Surface Electromyography and Deep Learning for Prostheses Hand: State-of-the-Art, Challenges, and Future. <i>Frontiers in Neuroscience</i> , 2021, 15, 621885.	1.4	60
199	Simultaneous Recording of Motor Evoked Potentials in Hand, Wrist and Arm Muscles to Assess Corticospinal Divergence. <i>Brain Topography</i> , 2021, 34, 415-429.	0.8	3

#	ARTICLE	IF	CITATIONS
200	Differential sets of cortical muscle synergy signatures during adult locomotion. , 2021, , .		3
201	Quantification of muscle coordination underlying basic shoulder movements using muscle synergy extraction. <i>Journal of Biomechanics</i> , 2021, 120, 110358.	0.9	6
202	Synergy Emergence in Deep Reinforcement Learning for Full-Dimensional Arm Manipulation. <i>IEEE Transactions on Medical Robotics and Bionics</i> , 2021, 3, 498-509.	2.1	7
203	Functional synergy recruitment index as a reliable biomarker of motor function and recovery in chronic stroke patients. <i>Journal of Neural Engineering</i> , 2021, 18, 046061.	1.8	18
204	Muscle Synergies in Children Walking and Running on a Treadmill. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 637157.	1.0	15
205	Common Motor Drive Triggers Response of Prime Movers When Two Fingers Simultaneously Respond to a Cue. <i>Brain Sciences</i> , 2021, 11, 700.	1.1	0
206	Approaches to revealing the neural basis of muscle synergies: a review and a critique. <i>Journal of Neurophysiology</i> , 2021, 125, 1580-1597.	0.9	57
207	Temporal control of muscle synergies is linked with alpha-band neural drive. <i>Journal of Physiology</i> , 2021, 599, 3385-3402.	1.3	13
208	Investigation of Power Specific Motor Primitives in an Upper Limb Rotational Motion. <i>Journal of Motor Behavior</i> , 2022, 54, 80-91.	0.5	3
209	Dynamics of Modular Neuromotor Control of Walking and Running during Single and Dual Task Conditions. <i>Neuroscience</i> , 2021, 465, 1-10.	1.1	11
210	Early Development of Locomotor Patterns and Motor Control in Very Young Children at High Risk of Cerebral Palsy, a Longitudinal Case Series. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 659415.	1.0	4
211	Synergistic Organization of Neural Inputs from Spinal Motor Neurons to Extrinsic and Intrinsic Hand Muscles. <i>Journal of Neuroscience</i> , 2021, 41, 6878-6891.	1.7	28
212	Effects of body weight support and guidance force settings on muscle synergy during Lokomat walking. <i>European Journal of Applied Physiology</i> , 2021, 121, 2967-2980.	1.2	12
214	Deep reinforcement learning for modeling human locomotion control in neuromechanical simulation. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2021, 18, 126.	2.4	45
216	Biopsychosocial Functions of Human Walking and Adherence to Behaviourally Demanding Belief Systems: A Narrative Review. <i>Frontiers in Psychology</i> , 2021, 12, 654122.	1.1	7
217	A Novel Hierarchical Framework for Measuring the Complexity and Irregularity of Multimodal Speech Signals and Its Application in the Assessment of Speech Impairment in Amyotrophic Lateral Sclerosis. <i>Journal of Speech, Language, and Hearing Research</i> , 2021, 64, 2996-3014.	0.7	8
218	Flexible Recruitments of Fundamental Muscle Synergies in the Trunk and Lower Limbs for Highly Variable Movements and Postures. <i>Sensors</i> , 2021, 21, 6186.	2.1	12
219	Evidence for constancy in the modularity of trunk muscle activity preceding reaching: Implications for the role of preparatory postural activity.. <i>Journal of Neurophysiology</i> , 2021, 126, 1465-1477.	0.9	7

#	ARTICLE	IF	CITATIONS
220	A Perspective on Muscle Synergies and Different Theories Related to Their Adaptation. <i>Biomechanics</i> , 2021, 1, 253-263.	0.5	6
221	Are muscle synergies useful for stroke rehabilitation?. <i>Current Opinion in Biomedical Engineering</i> , 2021, 19, 100315.	1.8	19
222	Stroke impairs the control of isometric forces and muscle activations in the ipsilesional arm. <i>Scientific Reports</i> , 2021, 11, 18533.	1.6	4
223	Primitive muscle synergies reflect different modes of coordination in upper limb motions. <i>Medical and Biological Engineering and Computing</i> , 2021, 59, 2153-2163.	1.6	4
224	Task-relevant and task-irrelevant variability causally shape error-based motor learning. <i>Neural Networks</i> , 2021, 142, 583-596.	3.3	9
225	Empirical Evidence Connecting the Neural Mechanism Behind Motor Coordination and Force Generation on Healthy Humans. <i>Biosystems and Biorobotics</i> , 2022, , 891-895.	0.2	0
226	Emergence of Motor Synergy in Multi-directional Reaching with Deep Reinforcement Learning. , 2021, , .		0
227	Wavelet-based semblance analysis to determine muscle synergy for different handstand postures of Chilean circus athletes. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2021, 24, 1053-1063.	0.9	3
228	Characteristics of Synergetic Interaction of Skeletal Muscles during the Performance of a Complicated Coordination Motor Task. <i>Human Physiology</i> , 2021, 47, 42-50.	0.1	1
229	Identifying differences in gait adaptability across various speeds using movement synergy analysis. <i>PLoS ONE</i> , 2021, 16, e0244582.	1.1	9
230	The Nature and Structure of Feasible Sets. <i>Biosystems and Biorobotics</i> , 2016, , 135-157.	0.2	1
231	Training Muscle Synergies to Relearn Movement: Current Perspectives and Future Trends. <i>Biosystems and Biorobotics</i> , 2019, , 226-230.	0.2	2
232	Muscle Synergies in Clinical Practice: Theoretical and Practical Implications. <i>Biosystems and Biorobotics</i> , 2016, , 251-272.	0.2	23
233	Alteration of muscle synergy structure while walking under increased postural constraints. <i>Cognitive Computation and Systems</i> , 2020, 2, 50-56.	0.8	11
234	The effects of motor modularity on performance, learning and generalizability in upper-extremity reaching: a computational analysis. <i>Journal of the Royal Society Interface</i> , 2020, 17, 20200011.	1.5	10
238	Mapping motor cortex stimulation to muscle responses. , 2020, 2020, .		6
239	Experimental Muscle Pain Impairs the Synergistic Modular Control of Neck Muscles. <i>PLoS ONE</i> , 2015, 10, e0137844.	1.1	63
240	Synergistic Structure in the Speed Dependent Modulation of Muscle Activity in Human Walking. <i>PLoS ONE</i> , 2016, 11, e0152784.	1.1	5

#	ARTICLE	IF	CITATIONS
241	A Review of the Theoretical Fascial Models: Biotensegrity, Fascintegrity, and Myofascial Chains. <i>Cureus</i> , 2020, 12, e7092.	0.2	20
242	A Bipolar Myoelectric Sensor-Enabled Human-Machine Interface Based On Spinal Module Activations. , 2021, , .		1
244	Parkour-Based Activities in the Athletic Development of Youth Basketball Players. <i>Frontiers in Physiology</i> , 2021, 12, 771368.	1.3	1
245	Neuromechanical Biomarkers for Robotic Neurorehabilitation. <i>Frontiers in Neurorobotics</i> , 2021, 15, 742163.	1.6	20
246	How Many Muscles? Optimal Muscles Set Search for Optimizing Myocontrol Performance. <i>Frontiers in Computational Neuroscience</i> , 2021, 15, 668579.	1.2	4
247	Combined Use of EMG and EEG Techniques for Neuromotor Assessment in Rehabilitative Applications: A Systematic Review. <i>Sensors</i> , 2021, 21, 7014.	2.1	24
248	Towards a "Brain-Guided" Cognitive Architecture. , 2014, , 199-239.		0
249	Factorization of EMG via muscle synergies in walking task: Evaluation of intra-subject and inter-subject variability. , 2017, , .		9
251	Control of Upper Limb Motions by Combinations of Basic Muscle Synergies. , 2019, , .		0
257	Proximal and distal spinal neurons innervating multiple synergist and antagonist motor pools. <i>ELife</i> , 2021, 10, .	2.8	25
259	Auditory startle disrupts speech coordination. <i>Concentric: Studies in Linguistics</i> , 2021, 47, 167-183.	0.1	0
260	Muscle coordination during archery shooting: A comparison of archers with different skill levels. <i>European Journal of Sport Science</i> , 2023, 23, 54-61.	1.4	3
261	Synergy Analysis of Back Muscle Activities in Patients With Adolescent Idiopathic Scoliosis Based on High-Density Electromyogram. <i>IEEE Transactions on Biomedical Engineering</i> , 2022, 69, 2006-2017.	2.5	7
262	Muscle synergies enable accurate joint moment prediction using few electromyography sensors. , 2021, , .		3
263	Clusterization of multi-channel electromyograms into muscle-specific activations to drive a subject-specific musculoskeletal model: towards fast and accurate clinical decision-making. , 2021, 2021, 5979-5982.		1
264	Mixed matrix factorization: a novel algorithm for the extraction of kinematic-muscular synergies. <i>Journal of Neurophysiology</i> , 2022, 127, 529-547.	0.9	24
265	Discrete field potentials produced by coherent activation of spinal dorsal horn neurons. <i>Experimental Brain Research</i> , 2022, 240, 665-686.	0.7	2
266	A network information theoretic framework to characterise muscle synergies in space and time. <i>Journal of Neural Engineering</i> , 2022, 19, 016031.	1.8	5

#	ARTICLE	IF	CITATIONS
267	Synergistic Upper-Limb Functional Muscle Connectivity Using Acoustic Mechanomyography. IEEE Transactions on Biomedical Engineering, 2022, 69, 2569-2580.	2.5	4
268	Whole-Body Adaptive Functional Electrical Stimulation Kinesitherapy Can Promote the Restoring of Physiological Muscle Synergies for Neurological Patients. Sensors, 2022, 22, 1443.	2.1	2
270	Modification of Hand Muscular Synergies in Stroke Patients after Robot-Aided Rehabilitation. Applied Sciences (Switzerland), 2022, 12, 3146.	1.3	4
271	Dysfunctional movement patterning in the hand: an unrecognized entity?. Journal of Hand Surgery: European Volume, 2022, , 175319342210858.	0.5	0
272	Task space exploration improves adaptation after incompatible virtual surgeries. Journal of Neurophysiology, 2022, 127, 1127-1146.	0.9	13
273	Real-Time Control of a Multi-Degree-of-Freedom Mirror Myoelectric Interface During Functional Task Training. Frontiers in Neuroscience, 2022, 16, 764936.	1.4	5
274	Synergy-Based Motor Therapy Inducing Favorable Changes in Motor Function Components among Poststroke Subjects: A Single-Group Study. Journal of Neurosciences in Rural Practice, 0, , .	0.3	1
277	Evidence for basic units of upper limb muscle synergies underlying a variety of complex human manipulations. Journal of Neurophysiology, 2022, 127, 958-968.	0.9	11
278	Towards an Open-Source Hardware Agnostic Framework for Robotic End-Effectors Control. , 2021, , .		2
279	Proactive Modulation in the Spatiotemporal Structure of Muscle Synergies Minimizes Reactive Responses in Perturbed Landings. Frontiers in Bioengineering and Biotechnology, 2021, 9, 761766.	2.0	3
289	Improvement in lower extremity hemiplegia in a post-operative brain tumor patient by applying an integrated volitional control electrical stimulator. Journal of Physical Therapy Science, 2022, 34, 473-477.	0.2	0
290	Evidence for shared neural information between muscle synergies and corticospinal efficacy. Scientific Reports, 2022, 12, .	1.6	5
291	Proposing a neural framework for the evolution of elaborate courtship displays. ELife, 0, 11, .	2.8	11
292	Central Commands to the Elbow and Shoulder Muscles During Circular Planar Movements of Hand With Simultaneous Generation of Tangential Forces. Frontiers in Physiology, 2022, 13, .	1.3	1
294	Learning to Navigate by Pushing. , 2022, , .		1
295	Modulation of Muscle Synergies in Lower-Limb Muscles Associated With Split-Belt Locomotor Adaptation. Frontiers in Human Neuroscience, 0, 16, .	1.0	2
296	musclesyneRgies: factorization of electromyographic data in R with sensible defaults. Journal of Open Source Software, 2022, 7, 4439.	2.0	9
299	Agonist-antagonist muscle strain in the residual limb preserves motor control and perception after amputation. Communications Medicine, 2022, 2, .	1.9	1

#	ARTICLE	IF	CITATIONS
300	Similarity of hand muscle synergies elicited by transcranial magnetic stimulation and those found during voluntary movement. <i>Journal of Neurophysiology</i> , 2022, 128, 994-1010.	0.9	1
301	Influence of the number of muscles and strides on selective motor control during gait in individuals with cerebral palsy. <i>Journal of Electromyography and Kinesiology</i> , 2022, 66, 102697.	0.7	2
302	Age-related differences in gait symmetry obtained from kinematic synergies and muscle synergies of lower limbs during childhood. <i>BioMedical Engineering OnLine</i> , 2022, 21, .	1.3	0
303	Automated estimation of ankle muscle EMG envelopes and resulting plantar-dorsi flexion torque from 64 garment-embedded electrodes uniformly distributed around the human leg. <i>Journal of Electromyography and Kinesiology</i> , 2022, 67, 102701.	0.7	5
304	Toward interpretable digital biomarkers of walking and reaching in Parkinson's disease. <i>Wearable Technologies</i> , 2022, 3, .	1.6	1
305	Age-Related Modifications of Muscle Synergies and Their Temporal Activations for Overground Walking. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2022, 30, 2700-2709.	2.7	4
306	Principles of gait encoding in the subthalamic nucleus of people with Parkinson's disease. <i>Science Translational Medicine</i> , 2022, 14, .	5.8	17
307	Locomotor adaptations: paradigms, principles and perspectives. <i>Progress in Biomedical Engineering</i> , 2022, 4, 042003.	2.8	2
308	Cortical contributions to locomotor primitives in toddlers and adults. <i>IScience</i> , 2022, 25, 105229.	1.9	8
309	Assessing Walking Stability Based on Whole-Body Movement Derived from a Depth-Sensing Camera. <i>Sensors</i> , 2022, 22, 7542.	2.1	3
311	Self-configuring feedback loops for sensorimotor control. <i>ELife</i> , 0, 11, .	2.8	6
312	Common synaptic input, synergies and size principle: Control of spinal motor neurons for movement generation. <i>Journal of Physiology</i> , 2023, 601, 11-20.	1.3	29
313	Muscle spindles and their role in maintaining robust locomotion. <i>Journal of Physiology</i> , 2023, 601, 275-285.	1.3	4
314	Muscle activation patterns and muscle synergies reflect different modes of coordination during upper extremity movement. <i>Frontiers in Human Neuroscience</i> , 0, 16, .	1.0	3
315	Variability of trunk muscle synergies underlying the multidirectional movements and stability trunk motor tasks in healthy individuals. <i>Scientific Reports</i> , 2023, 13, .	1.6	4
316	Merging Analysis of Muscle Synergies for Cerebral Palsy Gait. , 2022, , .		0
317	Use of Surface Electromyography to Estimate End-Point Force in Redundant Systems: Comparison between Linear Approaches. <i>Bioengineering</i> , 2023, 10, 234.	1.6	1
318	Kinematics, dynamics, and muscle-synergy analysis of single-leg Yoga postures. <i>Multibody System Dynamics</i> , 2023, 58, 137-155.	1.7	1

#	ARTICLE	IF	CITATIONS
319	Optimal Identification of Muscle Synergies From Typical Sit-to-Stand Clinical Tests. IEEE Open Journal of Engineering in Medicine and Biology, 2023, 4, 31-37.	1.7	1
321	Motor control complexity can be dynamically simplified during gait pattern exploration using motor control-based biofeedback. Journal of Neurophysiology, 2023, 129, 984-998.	0.9	0
322	Neurotechnologies to restore hand functions. , 2023, 1, 390-407.		5
348	Exploring Muscle Synergies for Performance Enhancement and Learning in Myoelectric Control Maps. , 2023, , .		0
352	A novel force-constrained non-negative matrix factorization algorithm reveals the effectiveness of muscle synergies in the task space*. , 2023, , .		0
355	Light touch increases muscle synergy coordination, reducing synergy space in quiet bipedal stance. , 2024, , .		0