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#	Paper	IF	Citations
200	Absence of postural muscle synergies for balance after spinal cord transection. <i>Journal of Neurophysiology</i> , <b>2013</b> , 110, 1301-10	3.2	23
199	Effort minimization and synergistic muscle recruitment for three-dimensional force generation. <i>Frontiers in Computational Neuroscience</i> , <b>2013</b> , 7, 186	3.5	21
198	Effective force control by muscle synergies. <i>Frontiers in Computational Neuroscience</i> , <b>2014</b> , 8, 46	3.5	74
197	A novel computational framework for deducing muscle synergies from experimental joint moments. <i>Frontiers in Computational Neuroscience</i> , <b>2014</b> , 8, 153	3.5	13
196	Post-stroke balance rehabilitation under multi-level electrotherapy: a conceptual review. <i>Frontiers in Neuroscience</i> , <b>2014</b> , 8, 403	5.1	8
195	From spontaneous motor activity to coordinated behaviour: a developmental model. <b>2014</b> , 10, e10036.	53	20
194	Reorganization of muscle synergies during multidirectional reaching in the horizontal plane with experimental muscle pain. <i>Journal of Neurophysiology</i> , <b>2014</b> , 111, 1615-30	3.2	49
193	Effects of dynamic stepping training on nonlocomotor tasks in individuals poststroke. <b>2014</b> , 94, 921-33		23
192	Individuals with transtibial limb loss use interlimb force asymmetries to maintain multi-directional reactive balance control. <b>2014</b> , 29, 1039-47		19
191	Shared muscle synergies in human walking and cycling. <i>Journal of Neurophysiology</i> , <b>2014</b> , 112, 1984-98	3.2	73
190	Ankle torque control that shifts the center of pressure from heel to toe contributes non-zero sagittal plane angular momentum during human walking. <i>Journal of Biomechanics</i> , <b>2014</b> , 47, 1389-94	2.9	15
189	The flexible recruitment of muscle synergies depends on the required force-generating capability. Journal of Neurophysiology, <b>2014</b> , 112, 316-27	3.2	28
188	Editorial: Modularity in motor control: from muscle synergies to cognitive action representation. <i>Frontiers in Computational Neuroscience</i> , <b>2015</b> , 9, 126	3.5	42
187	Identification of muscle synergies associated with gait transition in humans. <i>Frontiers in Human Neuroscience</i> , <b>2015</b> , 9, 48	3.3	46
186	Long-term training modifies the modular structure and organization of walking balance control. <i>Journal of Neurophysiology</i> , <b>2015</b> , 114, 3359-73	3.2	68
185	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> , <b>2015</b> , 48, 3234-41	2.9	7
184	Somatosensory feedback refines the perception of hand shape with respect to external constraints. <b>2015</b> , 293, 1-11		1

## (2017-2015)

183	Neuromechanical principles underlying movement modularity and their implications for rehabilitation. <b>2015</b> , 86, 38-54		216
182	Feasible muscle activation ranges based on inverse dynamics analyses of human walking. <i>Journal of Biomechanics</i> , <b>2015</b> , 48, 2990-7	2.9	22
181	Force feedback reinforces muscle synergies in insect legs. <b>2015</b> , 44, 541-53		23
180	Gait post-stroke: Pathophysiology and rehabilitation strategies. <b>2015</b> , 45, 335-55		126
179	Suboptimal Muscle Synergy Activation Patterns Generalize their Motor Function across Postures. <i>Frontiers in Computational Neuroscience</i> , <b>2016</b> , 10, 7	3.5	11
178	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> , <b>2016</b> , 10, 620	3.3	29
177	Changes in muscle coordination patterns induced by exposure to a viscous force field. <i>Journal of NeuroEngineering and Rehabilitation</i> , <b>2016</b> , 13, 58	5.3	6
176	Immature Spinal Locomotor Output in Children with Cerebral Palsy. <b>2016</b> , 7, 478		59
175	Modular control during incline and level walking in humans. <b>2017</b> , 220, 807-813		16
174	Why Is Neuromechanical Modeling of Balance and Locomotion So Hard?. <b>2016</b> , 197-223		8
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172	Tuning of Muscle Synergies During Walking Along Rectilinear and Curvilinear Trajectories in Humans. <b>2017</b> , 45, 1204-1218		25
171	Neuromuscular responses differ between slip-induced falls and recoveries in older adults. <i>Journal of Neurophysiology</i> , <b>2017</b> , 117, 509-522	3.2	26
170	Increased neuromuscular consistency in gait and balance after partnered, dance-based rehabilitation in Parkinson's disease. <i>Journal of Neurophysiology</i> , <b>2017</b> , 118, 363-373	3.2	43
169	Muscle, Biomechanics, and Implications for Neural Control. 2017, 365-416		10
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165	Simulating the impact of sensorimotor deficits on reaching performance. <b>2017</b> , 2017, 31-37		7
164	Influence of pre-processing in the extraction of muscle synergies during human locomotion. <b>2017</b> , 2017, 2502-2505		7
163	Feasibility study on effects of freely moving micro-beads insole for walking. 2017,		
162	Methodological Choices in Muscle Synergy Analysis Impact Differentiation of Physiological Characteristics Following Stroke. <i>Frontiers in Computational Neuroscience</i> , <b>2017</b> , 11, 78	3.5	25
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160	Shared and Task-Specific Muscle Synergies during Normal Walking and Slipping. <i>Frontiers in Human Neuroscience</i> , <b>2017</b> , 11, 40	3.3	34
159	Intra-Subject Consistency during Locomotion: Similarity in Shared and Subject-Specific Muscle Synergies. <i>Frontiers in Human Neuroscience</i> , <b>2017</b> , 11, 586	3.3	23
158	Motor Functions and Mobility. <b>2018</b> , 362-388		
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156	Specific muscle synergies in national elite female ice hockey players in response to unexpected external perturbation. <b>2018</b> , 36, 319-325		19
155	Can Measured Synergy Excitations Accurately Construct Unmeasured Muscle Excitations?. <b>2018</b> , 140,		9
154	Synchronization matters for motor coordination. <i>Journal of Neurophysiology</i> , <b>2018</b> , 119, 767-770	3.2	1
153	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> , <b>2018</b> , 12, 485	3.3	4
152	Modular Control of Human Movement During Running: An Open Access Data Set. <b>2018</b> , 9, 1509		24
151	The influence of musculoskeletal pain disorders on muscle synergies-A systematic review. <i>PLoS ONE</i> , <b>2018</b> , 13, e0206885	3.7	12
150	The Effect of Signal-to-Noise Ratio on Muscle Synergy Extraction. 2018,		O
149	Assessment of Dry Epidermal Electrodes for Long-Term Electromyography Measurements. <i>Sensors</i> , <b>2018</b> , 18,	3.8	25
148	Modularity speeds up motor learning by overcoming mechanical bias in musculoskeletal geometry. Journal of the Royal Society Interface, <b>2018</b> , 15,	4.1	4

147	EEG-Based BCI Control Schemes for Lower-Limb Assistive-Robots. <i>Frontiers in Human Neuroscience</i> , <b>2018</b> , 12, 312	3.3	90	
146	Direction-Specific Instability Poststroke Is Associated With Deficient Motor Modules for Balance Control. <b>2018</b> , 32, 655-666		9	
145	Deciphering the functional role of spatial and temporal muscle synergies in whole-body movements. <i>Scientific Reports</i> , <b>2018</b> , 8, 8391	4.9	13	
144	Neuromuscular determinants of slip-induced falls and recoveries in older adults. <i>Journal of Neurophysiology</i> , <b>2018</b> , 120, 1534-1546	3.2	2	
143	Speed-Dependent Modulation of Muscle Activity Based on Muscle Synergies during Treadmill Walking. <i>Frontiers in Human Neuroscience</i> , <b>2018</b> , 12, 4	3.3	26	
142	Lateral Symmetry of Synergies in Lower Limb Muscles of Acute Post-stroke Patients After Robotic Intervention. <i>Frontiers in Neuroscience</i> , <b>2018</b> , 12, 276	5.1	27	
141	Motor modules during adaptation to walking in a powered ankle exoskeleton. <i>Journal of NeuroEngineering and Rehabilitation</i> , <b>2018</b> , 15, 2	5.3	21	
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139	Muscle Activity Analysis Using Higher-Order Tensor Decomposition: Application to Muscle Synergy Extraction. <b>2019</b> , 7, 27257-27271		7	
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128	Identification of the origin of force-feedback signals influencing motor neurons of the thoraco-coxal joint in an insect. <b>2019</b> , 205, 253-270		9
127	A method to estimate inertial properties and force plate inertial components for instrumented platforms. <b>2019</b> , 66, 96-101		3
126	Data-driven spectral analysis for coordinative structures in periodic human locomotion. <i>Scientific Reports</i> , <b>2019</b> , 9, 16755	4.9	8
125	Swaying slower reduces the destabilizing effects of a compliant surface on voluntary sway dynamics. <i>PLoS ONE</i> , <b>2019</b> , 14, e0226263	3.7	8
124	How to Improve Robustness in Muscle Synergy Extraction. <b>2019</b> , 2019, 1525-1528		5
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121	Effects of Voluntary Agonist-Antagonist Coactivation on Stability of Vertical Posture. <i>Motor Control</i> , <b>2019</b> , 23, 304-326	1.3	16
120	Movement goals encoded within the cortex and muscle synergies to reduce redundancy pre and post-stroke. The relevance for gait rehabilitation and the prescription of walking-aids. A literature review and scholarly discussion. <b>2019</b> , 35, 1-14		8
119	Muscle Synergies for Turning During Human Walking. <i>Journal of Motor Behavior</i> , <b>2019</b> , 51, 1-9	1.4	5
118	Lower limb muscle synergies during walking after stroke: a systematic review. <b>2020</b> , 42, 2836-2845		15
117	Modularity underlying the performance of unusual locomotor tasks inspired by developmental milestones. <i>Journal of Neurophysiology</i> , <b>2020</b> , 123, 496-510	3.2	2
116	Generalization of motor module recruitment across standing reactive balance and walking is associated with beam walking performance in young adults. <i>Gait and Posture</i> , <b>2020</b> , 82, 242-247	2.6	2
115	Plasma Aland neurofilament light chain are associated with cognitive and physical function decline in non-dementia older adults. <b>2020</b> , 12, 128		7
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113	Improved Gait of Persons With Multiple Sclerosis After Rehabilitation: Effects on Lower Limb Muscle Synergies, Push-Off, and Toe-Clearance. <i>Frontiers in Neurology</i> , <b>2020</b> , 11, 668	4.1	2
112	Variability of Muscle Synergies in Hand Grasps: Analysis of Intra- and Inter-Session Data. <i>Sensors</i> , <b>2020</b> , 20,	3.8	7

111	Assist-As-Needed Control of a Wearable Lightweight Knee Robotic Device. <b>2020</b> ,		1
110	Muscle Synergy Assessment During Single-Leg Stance. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , <b>2020</b> , 28, 2914-2922	4.8	4
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108	Proficiency-based recruitment of muscle synergies in a highly perturbed walking task (slackline). <b>2020</b> , 2, e12253		3
107	Handling Risk Homeostasis in Biofunctions. <b>2020</b> ,		O
106	Muscle Synergy of the Underwater Undulatory Swimming in Elite Male Swimmers. <b>2020</b> , 2, 62		8
105	Muscle Synergies in Parkinson's Disease. <i>Sensors</i> , <b>2020</b> , 20,	3.8	8
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103	The effects of fatigue on synergy of selected lower limb muscles during running. <i>Journal of Biomechanics</i> , <b>2020</b> , 103, 109692	2.9	8
102	Posture-dependent neuromuscular contributions to three-dimensional isometric shoulder torque generation. <i>Journal of Neurophysiology</i> , <b>2020</b> , 123, 1526-1535	3.2	2
101	Changes in leg cycling muscle synergies after training augmented by functional electrical stimulation in subacute stroke survivors: a pilot study. <i>Journal of NeuroEngineering and Rehabilitation</i> , <b>2020</b> , 17, 35	5.3	12
100	Changes in Motor Skill Proficiency After Equine-Assisted Activities and Brain-Building Tasks in Youth With Neurodevelopmental Disorders. <i>Frontiers in Veterinary Science</i> , <b>2020</b> , 7, 22	3.1	2
99	Muscle Synergies Extracted Using Principal Activations: Improvement of Robustness and Interpretability. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , <b>2020</b> , 28, 453-460	4.8	11
98	Evolving Toward Subject-Specific Gait Rehabilitation Through Single-Joint Resistive Force Interventions. <i>Frontiers in Neurorobotics</i> , <b>2020</b> , 14, 15	3.4	3
97	Relationship Between Body Composition and Balance Performance in Older Adults with Hyperkyphosis. <i>Journal of Medical and Biological Engineering</i> , <b>2021</b> , 41, 53-58	2.2	
96	Muscle Activation Profile During Perturbed Walking is Modulated According to Body State.		О
95	Common kinematic synergies of various human locomotor behaviours. <i>Royal Society Open Science</i> , <b>2021</b> , 8, 210161	3.3	6
94	A factorization-based algorithm to predict EMG data using only kinematics information. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , <b>2021</b> , 37, e3463	2.6	

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91	Effects of Varying Overground Walking Speeds on Lower-Extremity Muscle Synergies in Healthy Individuals. <i>Motor Control</i> , <b>2021</b> , 25, 234-251	1.3	2
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89	Evaluation of Three Machine Learning Algorithms for the Automatic Classification of EMG Patterns in Gait Disorders. <i>Frontiers in Neurology</i> , <b>2021</b> , 12, 666458	4.1	3
88	Abnormal center of mass feedback responses during balance: A potential biomarker of falls in Parkinson's disease. <i>PLoS ONE</i> , <b>2021</b> , 16, e0252119	3.7	2
87	Approaches to revealing the neural basis of muscle synergies: a review and a critique. <i>Journal of Neurophysiology</i> , <b>2021</b> , 125, 1580-1597	3.2	8
86	Patterns of whole-body muscle activations following vertical perturbations during standing and walking. <i>Journal of NeuroEngineering and Rehabilitation</i> , <b>2021</b> , 18, 75	5.3	2
85	Investigation of Power Specific Motor Primitives in an Upper Limb Rotational Motion. <i>Journal of Motor Behavior</i> , <b>2021</b> , 1-12	1.4	1
84	Principal postural acceleration and myoelectric activity: Interrelationship and relevance for characterizing neuromuscular function in postural control. <i>Human Movement Science</i> , <b>2021</b> , 77, 102792	2.4	3
83	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> , <b>2021</b> , 15, 659415	3.3	O
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81	Synergistic Organization of Neural Inputs from Spinal Motor Neurons to Extrinsic and Intrinsic Hand Muscles. <i>Journal of Neuroscience</i> , <b>2021</b> , 41, 6878-6891	6.6	5
80	Analysis of the Relationships between Balance Ability and Walking in Terms of Muscle Activities and Lower Limb Kinematics and Kinetics. <i>Biomechanics</i> , <b>2021</b> , 1, 190-201		O
79	The Dynamic Motor Control Index as a Marker of Age-Related Neuromuscular Impairment. <i>Frontiers in Aging Neuroscience</i> , <b>2021</b> , 13, 678525	5.3	O
78	Muscle synergy differences between voluntary and reactive backward stepping. <i>Scientific Reports</i> , <b>2021</b> , 11, 15462	4.9	O
77	Flexible recruitments of fundamental muscle synergies in the trunk and lower limbs for highly variable movements and postures.		
76	Task space exploration improves adaptation after incompatible virtual surgeries.		

## (2021-2021)

75	Forward and backward walking share the same motor modules and locomotor adaptation strategies. <i>Heliyon</i> , <b>2021</b> , 7, e07864	3.6	1	
74	Modular reorganization of gait in chronic but not in artificial knee joint constraint. <i>Journal of Neurophysiology</i> , <b>2021</b> , 126, 516-531	3.2	1	
73	Flexible Recruitments of Fundamental Muscle Synergies in the Trunk and Lower Limbs for Highly Variable Movements and Postures. <i>Sensors</i> , <b>2021</b> , 21,	3.8	1	
7²	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> , <b>2021</b> , 126, 1465-1477	3.2	1	
71	A Perspective on Muscle Synergies and Different Theories Related to Their Adaptation. <i>Biomechanics</i> , <b>2021</b> , 1, 253-263		0	
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69	Motorized Treadmill and Optical Recording System for Gait Analysis of Grasshoppers. <i>Sensors</i> , <b>2021</b> , 21,	3.8	0	
68	The influence of shaft stiffness on joint kinematics and kinetics during hiking. <i>Journal of Biomechanics</i> , <b>2021</b> , 126, 110643	2.9	1	
67	Evaluation of movement and brain activity. Clinical Neurophysiology, 2021, 132, 2608-2638	4.3	5	
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65	A Preliminary Comparison of Stepping Responses Following Perturbations During Overground and Treadmill Walking. <i>Biosystems and Biorobotics</i> , <b>2017</b> , 291-295	0.2	1	
64	Alteration of muscle synergy structure while walking under increased postural constraints. <i>Cognitive Computation and Systems</i> , <b>2020</b> , 2, 50-56	1.2	7	
63	Cross-Sectional and Longitudinal Associations Between Plasma Neurodegenerative Biomarkers and Physical Performance Among Community-Dwelling Older Adults. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , <b>2021</b> , 76, 1874-1881	6.4	6	
62	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> , <b>2020</b> , 17, 20200011	4.1	4	
61	Abnormal center of mass control during balance: a new biomarker of falls in people with Parkinson disease.		1	
60	Comparison of muscle synergies for running between different foot strike patterns. <i>PLoS ONE</i> , <b>2017</b> , 12, e0171535	3.7	22	
59	Stepping training with external feedback relating to lower limb support ability effectively improved complex motor activity in ambulatory patients with stroke: a randomized controlled trial. <i>European Journal of Physical and Rehabilitation Medicine</i> , <b>2020</b> , 56, 14-23	4.4	3	
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57	A Bipolar Myoelectric Sensor-Enabled Human-Machine Interface Based On Spinal Module Activations. <b>2021</b> ,		1
56	A network information theoretic framework to characterise muscle synergies in space and time.		
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54	Encyclopedia of Computational Neuroscience. <b>2014</b> , 1-9		
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52	Foundations for Yoga Practice in Rehabilitation. <i>Advances in Medical Diagnosis, Treatment, and Care</i> , <b>2018</b> , 263-307	0.2	
51	Temporal and spatial asymmetries during stationary cycling cause different feedforward and feedback modifications in the muscular control of the lower limbs.		
50	Motor module generalization across balance and walking is reduced after stroke.		
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48	Control of Upper Limb Motions by Combinations of Basic Muscle Synergies. <b>2019</b> ,		
47	Foundations for Yoga Practice in Rehabilitation. <b>2019</b> , 181-224		
46	Effects of Lower Leg Therapeutic Taping on Balance in Central Nervous System Diseases: A Systematic Review of Literature. <i>Middle East Journal of Rehabilitation and Health Studies</i> , <b>2019</b> , 6,	1.4	O
45	The Effects of Motor Modularity on Performance, Learning, and Generalizability in Upper-Extremity Reaching: a Computational Analysis.		
44	Postural Control Mechanisms in Mammals, Including Humans. <b>2020</b> , 344-370		1
43	Identifying differences in gait adaptability across various speeds using movement synergy analysis.		1
42	Short-term Effects of Elastic Therapeutic Taping on Static and Dynamic Balance in Chronic Stroke <i>Basic and Clinical Neuroscience</i> , <b>2021</b> , 12, 541-550	1.4	
41	A network information theoretic framework to characterise muscle synergies in space and time <i>Journal of Neural Engineering</i> , <b>2022</b> ,	5	0

39	The association between motor modules and movement primitives of gait: A muscle and kinematic synergy study <i>Journal of Biomechanics</i> , <b>2022</b> , 134, 110997	2.9	O
38	Merged swing-muscle synergies and their relation to walking characteristics in subacute post-stroke patients: An observational study <i>PLoS ONE</i> , <b>2022</b> , 17, e0263613	3.7	1
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36	Task space exploration improves adaptation after incompatible virtual surgeries <i>Journal of Neurophysiology</i> , <b>2022</b> ,	3.2	1
35	Muscle synergies of multi-directional postural control in astronauts on Earth after a long-term stay in space <i>Journal of Neurophysiology</i> , <b>2022</b> ,	3.2	
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