Evangelos A Christou

List of Publications by Citations

104 papers	2,823 citations	28 h-index	50 g-index
107 ext. papers	3,190 ext. citations	3.2 avg, IF	5.35 L-index

#	Paper	IF	Citations
104	Mechanisms that contribute to differences in motor performance between young and old adults. *Journal of Electromyography and Kinesiology*, **2003**, 13, 1-12	2.5	393
103	Multiple features of motor-unit activity influence force fluctuations during isometric contractions. *Journal of Neurophysiology*, **2003**, 90, 1350-61	3.2	180
102	Practice reduces motor unit discharge variability in a hand muscle and improves manual dexterity in old adults. *Journal of Applied Physiology*, **2005**, 98, 2072-80	3.7	169
101	Children achieve adult-like sensory integration during stance at 12-years-old. *Gait and Posture*, **2006** , 23, 455-63	2.6	137
100	Rectification of the EMG signal impairs the identification of oscillatory input to the muscle. *Journal of Neurophysiology*, **2010**, 103, 1093-103	3.2	95
99	Patellar taping increases vastus medialis oblique activity in the presence of patellofemoral pain. *Journal of Electromyography and Kinesiology*, **2004**, 14, 495-504	2.5	95
98	Removal of visual feedback alters muscle activity and reduces force variability during constant isometric contractions. *Experimental Brain Research*, **2009**, 197, 35-47	2.3	86
97	Aging and variability of voluntary contractions. *Exercise and Sport Sciences Reviews*, **2011**, 39, 77-84	6.7	85
96	The 1- to 2-Hz oscillations in muscle force are exacerbated by stress, especially in older adults. *Journal of Applied Physiology*, **2004**, 97, 225-35	3.7	83
95	Modeling variability of force during isometric contractions of the quadriceps femoris. *Journal of Motor Behavior*, **2002**, 34, 67-81	1.4	79
94	Fluctuations in acceleration during voluntary contractions lead to greater impairment of movement accuracy in old adults. *Journal of Applied Physiology*, **2003**, 95, 373-84	3.7	71
93	Prefrontal over-activation during walking in people with mobility deficits: Interpretation and functional implications. *Human Movement Science*, **2018**, 59, 46-55	2.4	53
92	Taiji training improves knee extensor strength and force control in older adults. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2003**, 58, 763-6	6.4	53
91	Different neural adjustments improve endpoint accuracy with practice in young and old adults. *Journal of Neurophysiology*, **2007**, 97, 3340-50	3.2	51
90	Age and contraction type influence motor output variability in rapid discrete tasks. *Journal of Applied Physiology*, **2002**, 93, 489-98	3.7	50
89	Greater amount of visual information exacerbates force control in older adults during constant isometric contractions. *Experimental Brain Research*, **2011**, 213, 351-61	2.3	48
88	Visual feedback attenuates force fluctuations induced by a stressor. *Medicine and Science in Sports and Exercise*, **2005**, 37, 2126-33	1.2	46

87	Enhanced somatosensory feedback reduces prefrontal cortical activity during walking in older adults. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2014**, 69, 1422-8	6.4	45
86	Motor output is more variable during eccentric compared with concentric contractions. *Medicine and Science in Sports and Exercise*, **2002**, 34, 1773-8	1.2	42
85	Increased force variability in chronic stroke: contributions of force modulation below 1 Hz. *PLoS ONE*, **2013**, 8, e83468	3.7	35
84	Greater amount of visual feedback decreases force variability by reducing force oscillations from 0-1 and 3-7 Hz. *European Journal of Applied Physiology*, **2010**, 108, 935-43	3.4	35
83	Modulation of force below 1 Hz: age-associated differences and the effect of magnified visual feedback. *PLoS ONE*, **2013**, 8, e55970	3.7	34
82	Force control is related to low-frequency oscillations in force and surface EMG. *PLoS ONE*, **2014**, 9, e109202	3.7	34
81	Frequency modulation of motor unit discharge has task-dependent effects on fluctuations in motor output. *Journal of Neurophysiology*, **2005**, 94, 2878-87	3.2	32
80	Aging and movement errors when lifting and lowering light loads. *Age*, **2011**, 33, 393-407		31
79	Discharge rate during low-force isometric contractions influences motor unit coherence below 15 Hz but not motor unit synchronization. *Experimental Brain Research*, **2007**, 178, 285-95	2.3	31
78	Low-Frequency Oscillations and Control of the Motor Output. *Frontiers in Physiology*, **2017**, 8, 78	4.6	28
77	Increased voluntary drive is associated with changes in common oscillations from 13 to 60 Hz of interference but not rectified electromyography. *Muscle and Nerve*, **2010**, 42, 348-54	3.4	28
76	Force control is greater in the upper compared with the lower extremity. *Journal of Motor Behavior*, **2003**, 35, 322-4	1.4	27
75	Site-specific differences in the association between plantar tactile perception and mobility function in older adults. *Frontiers in Aging Neuroscience*, **2014**, 6, 68	5.3	25
74	Coherence at 16-32 Hz can be caused by short-term synchrony of motor units. *Journal of Neurophysiology*, **2005**, 94, 105-18	3.2	25
73	Motor Output Variability Impairs Driving Ability in Older Adults. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2016**, 71, 1676-1681	6.4	24
72	Synchronous EMG activity in the piper frequency band reveals the corticospinal demand of walking tasks. *Annals of Biomedical Engineering*, **2013**, 41, 1778-86	4.7	23
71	Lower Extremity Muscle Strength and Force Variability in Persons With Parkinson Disease. *Journal of Neurologic Physical Therapy*, **2019**, 43, 56-62	4.1	21
70	Identification of Oscillations in Muscle Activity From Surface EMG: Reply to Halliday and Farmer. *Journal of Neurophysiology*, **2010**, 103, 3548-3549	3.2	20

69	Beta-band oscillations in the supplementary motor cortex are modulated by levodopa and associated with functional activity in the basal ganglia. *NeuroImage: Clinical*, **2018**, 19, 559-571	5.3	20
68	Motor control differs for increasing and releasing force. *Journal of Neurophysiology*, **2016**, 115, 2924-30	3.2	17
67	Interpreting Prefrontal Recruitment During Walking After Stroke: Influence of Individual Differences in Mobility and Cognitive Function. *Frontiers in Human Neuroscience*, **2019**, 13, 194	3.3	17
66	Aging and limb alter the neuromuscular control of goal-directed movements. *Experimental Brain Research*, **2014**, 232, 1759-71	2.3	17
65	Altered activation of the antagonist muscle during practice compromises motor learning in older adults. *Journal of Neurophysiology*, **2014**, 112, 1010-9	3.2	17
64	Near-infrared light therapy to attenuate strength loss after strenuous resistance exercise. *Journal of Athletic Training*, **2015**, 50, 45-50	4	16
63	Age-associated impairement in endpoint accuracy of goal-directed contractions performed with two fingers is due to altered activation of the synergistic muscles. *Experimental Gerontology*, **2012**, 47, 519-26	4.5	16
62	Timing variability and not force variability predicts the endpoint accuracy of fast and slow isometric contractions. *Experimental Brain Research*, **2010**, 202, 189-202	2.3	16
61	Processing of visual information compromises the ability of older adults to control novel fine motor tasks. *Experimental Brain Research*, **2015**, 233, 3475-88	2.3	15
60	Altered activation of the tibialis anterior in individuals with Pompe disease: Implications for motor unit dysfunction. *Muscle and Nerve*, **2015**, 51, 877-83	3.4	15
59	Magnified visual feedback exacerbates positional variability in older adults due to altered modulation of the primary agonist muscle. *Experimental Brain Research*, **2012**, 222, 355-64	2.3	15
58	Strength or Motor Control: What Matters in High-Functioning Stroke?. *Frontiers in Neurology*, **2018**, 9, 1160	4.1	15
57	Voluntary reduction of force variability via modulation of low-frequency oscillations. *Experimental Brain Research*, **2017**, 235, 2717-2727	2.3	14
56	Reducing task difficulty during practice improves motor learning in older adults. *Experimental Gerontology*, **2014**, 57, 168-74	4.5	13
55	The interaction of respiration and visual feedback on the control of force and neural activation of the agonist muscle. *Human Movement Science*, **2011**, 30, 1022-38	2.4	13
54	Age-associated differences in positional variability are greater with the lower limb. *Journal of Motor Behavior*, **2011**, 43, 357-60	1.4	13
53	Neural control of the lips differs for young and older adults following a perturbation. *Experimental Brain Research*, **2010**, 206, 319-27	2.3	13
52	Ankle variability is amplified in older adults due to lower EMG power from 30-60 Hz. *Human Movement Science*, **2012**, 31, 1366-78	2.4	11

51	Practice improves motor control in older adults by increasing the motor unit modulation from 13 to 30 Hz. *Journal of Neurophysiology*, **2013**, 110, 2393-401	3.2	11
50	Increased Force Variability Is Associated with Altered Modulation of the Motorneuron Pool Activity in Autism Spectrum Disorder (ASD). *International Journal of Molecular Sciences*, **2017**, 18,	6.3	10
49	Motor Impairments in Transient Ischemic Attack Increase the Odds of a Subsequent Stroke: A Meta-Analysis. *Frontiers in Neurology*, **2017**, 8, 243	4.1	10
48	Force dysmetria in spinocerebellar ataxia 6 correlates with functional capacity. *Frontiers in Human Neuroscience*, **2015**, 9, 184	3.3	10
47	Quantification of taiji learning in older adults. *Journal of the American Geriatrics Society*, **2003**, 51, 1186-7	5.6	10
46	Age-associated differences in motor output variability and coordination during the simultaneous dorsiflexion of both feet. *Somatosensory & Motor Research*, **2017**, 34, 96-101	1.2	9
45	Motor plan differs for young and older adults during similar movements. *Journal of Neurophysiology*, **2017**, 117, 1483-1488	3.2	9
44	Motor output oscillations with magnification of visual feedback in older adults. *Neuroscience Letters*, **2017**, 647, 8-13	3.3	9
43	Integration of visual feedback and motor learning: Corticospinal vs. corticobulbar pathway. *Human Movement Science*, **2018**, 58, 88-96	2.4	8
42	Neuromuscular control of goal-directed ankle movements differs for healthy children and adults. *European Journal of Applied Physiology*, **2014**, 114, 1889-99	3.4	8
41	EMG synchrony to assess impaired corticomotor control of locomotion after stroke. *Journal of Electromyography and Kinesiology*, **2017**, 37, 35-40	2.5	8
40	Time but not force is transferred between ipsilateral upper and lower limbs. *Journal of Motor Behavior*, **2008**, 40, 186-9	1.4	8
39	Voluntary control of forward leaning posture relates to low-frequency neural inputs to the medial gastrocnemius muscle. *Gait and Posture*, **2019**, 68, 187-192	2.6	8
38	Sex differences in spatial accuracy relate to the neural activation of antagonistic muscles in young adults. *Experimental Brain Research*, **2017**, 235, 2425-2436	2.3	7
37	Transient shifts in frontal and parietal circuits scale with enhanced visual feedback and changes in force variability and error. *Journal of Neurophysiology*, **2013**, 109, 2205-15	3.2	7
36	Discharge rate modulation of trapezius motor units differs for voluntary contractions and instructed muscle rest. *Experimental Brain Research*, **2011**, 208, 203-15	2.3	7
35	Quantitative Separation of Tremor and Ataxia in Essential Tremor. *Annals of Neurology*, **2020**, 88, 375-387	9.4	6
34	Deep brain stimulation in essential tremor: targets, technology, and a comprehensive review of clinical outcomes. *Expert Review of Neurotherapeutics*, **2020**, 20, 319-331	4.3	6

33	Reply to Boonstra: The Nature of Periodic Input to the Muscle. *Journal of Neurophysiology*, **2010**, 104, 577-577	3.2	6
32	Increased visual information gain improves bimanual force coordination. *Neuroscience Letters*, **2015**, 608, 23-7	3.3	5
31	Photobiomodulation delays the onset of skeletal muscle fatigue in a dose-dependent manner. *Lasers in Medical Science*, **2016**, 31, 1325-32	3.1	5
30	Differential contribution of visual and auditory information to accurately predict the direction and rotational motion of a visual stimulus. *Applied Physiology, Nutrition and Metabolism*, **2016**, 41, 244-8	3	5
29	Sensory and motor cortex function contributes to symptom severity in spinocerebellar ataxia type 6. *Brain Structure and Function*, **2017**, 222, 1039-1052	4	5
28	Detection of postural control in early Parkinson\'s disease: Clinical testing vs. modulation of center of pressure. *PLoS ONE*, **2021**, 16, e0245353	3.7	5
27	Visual information processing in older adults: reaction time and motor unit pool modulation. *Journal of Neurophysiology*, **2018**, 120, 2630-2639	3.2	5
26	Control of oscillatory force tasks: Low-frequency oscillations in force and muscle activity. *Human Movement Science*, **2019**, 64, 89-100	2.4	4
25	Functional motor control deficits in older FMR1 premutation carriers. *Experimental Brain Research*, **2019**, 237, 2269-2278	2.3	4
24	Neuromuscular variability and spatial accuracy in children and older adults. *Journal of Electromyography and Kinesiology*, **2018**, 41, 27-33	2.5	4
23	Motor planning perturbation: muscle activation and reaction time. *Journal of Neurophysiology*, **2018**, 120, 2059-2065	3.2	4
22	Endpoint accuracy of goal-directed ankle movements correlates to over-ground walking in stroke. *Clinical Neurophysiology*, **2019**, 130, 1008-1016	4.3	3
21	High-gain visual feedback exacerbates ankle movement variability in children. *Experimental Brain Research*, **2015**, 233, 1597-606	2.3	3
20	Motor impairments in transient ischemic attack increase the odds of a positive diffusion-weighted imaging: A meta-analysis. *Restorative Neurology and Neuroscience*, **2019**, 37, 509-521	2.8	3
19	Long-term adaptations differ for shortening and lengthening contractions. *European Journal of Applied Physiology*, **2012**, 112, 3709-20	3.4	3
18	Reaction to a Visual Stimulus: Anticipation with Steady and Dynamic Contractions. *Journal of Human Kinetics*, **2019**, 69, 17-27	2.6	3
17	Cognitive and motor deficits contribute to longer braking time in stroke. *Journal of NeuroEngineering and Rehabilitation*, **2021**, 18, 7	5.3	3
16	The effect of wheelchair propulsion style on changes in time spent in extreme wrist orientations after a bout of fatiguing propulsion. *Ergonomics*, **2017**, 60, 1425-1434	2.9	2

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15	The Effect of Propulsion Style on Wrist Movement Variability During the Push Phase After a Bout of Fatiguing Propulsion. *PM and R*, **2017**, 9, 265-274	2.2	2
14	Temporal but not spatial dysmetria relates to disease severity in FA. *Journal of Neurophysiology*, **2020**, 123, 718-725	3.2	2
13	Visual load and variability of muscle activation: Effects on reactive driving of older adults. *Human Movement Science*, **2019**, 63, 172-181	2.4	2
12	Temporal Invariance in SCA6 Is Related to Smaller Cerebellar Lobule VI and Greater Disease Severity. *Journal of Neuroscience*, **2020**, 40, 1722-1731	6.6	2
11	Speed but not amplitude of visual feedback exacerbates force variability in older adults. *Experimental Brain Research*, **2018**, 236, 2563-2571	2.3	1
10	Serum and Urinary N-Terminal Pro-brain Natriuretic Peptides as Biomarkers for Bronchopulmonary Dysplasia of Preterm Neonates. *Frontiers in Pediatrics*, **2020**, 8, 588738	3.4	1
9	Rehabilitation with accurate adaptability walking tasks or steady state walking: A randomized clinical trial in adults post-stroke. *Clinical Rehabilitation*, **2021**, 35, 1196-1206	3.3	1
8	Age-associated increase in postural variability relate to greater low-frequency center of pressure oscillations. *Gait and Posture*, **2021**, 85, 103-109	2.6	1
7	Postural control in adolescent boys and girls before the age of peak height velocity: Effects of task difficulty.. *Gait and Posture*, **2021**, 92, 461-466	2.6	0
6	Motor Control and Achilles Tendon Adaptation in Adolescence: Effects of Sport Participation and Maturity. *Journal of Human Kinetics*, **2021**, 76, 101-116	2.6	0
5	Force-Control vs. Strength Training: The Effect on Gait Variability in Stroke Survivors. *Frontiers in Neurology*, **2021**, 12, 667340	4.1	0
4	Motor transfer from the corticospinal to the corticobulbar pathway. *Physiology and Behavior*, **2018**, 191, 155-161	3.5	
3	Motor Control Training Enhances Reactive Driving in Stroke: A Pilot Study. *Biosystems and Biorobotics*, **2017**, 1061-1065	0.2	
2	Older adults use a motor plan that is detrimental to endpoint control. *Scientific Reports*, **2021**, 11, 7562	4.9	
1	Sex differences in cognitive-motor components of braking in older adults.. *Experimental Brain Research*, **2022**, 1	2.3	