Claudine Jc Lamoth

List of Publications by Year
in descending order

91 papers	5,524 citations	81900 39 h-index	82547 72 g-index
109 all docs	109 docs citations	109 times ranked	5695 citing authors

#	Article	IF	Citations
1	Singular Spectrum Analysis as a data-driven approach to the analysis of motor adaptation time series. Biomedical Signal Processing and Control, 2022, 71, 103068.	5.7	6
2	Outcome-dependent effects of walking speed and age on quantitative and qualitative gait measures. Gait and Posture, 2022, 93, 39-46.	1.4	7
3	Association between central sensitization and gait in chronic low back pain: Insights from a machine learning approach. Computers in Biology and Medicine, 2022, 144, 105329.	7.0	6
4	Task specificity and neural adaptations after balance learning in young adults. Human Movement Science, 2021, 78, 102833.	1.4	9
5	Coordination of Axial Trunk Rotations During Gait in Low Back Pain. A Narrative Review. Journal of Human Kinetics, 2021, 76, 35-50.	1.5	10
6	Faster walking under muscle fatigability: a strategy to improve stability or a warm-up effect?. Brazilian Journal of Motor Behavior, 2021, 15, 149-152.	0.5	1
7	Long-Term Exposure to Anticholinergic and Sedative Medications and Cognitive and Physical Function in Later Life. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2020, 75, 357-365.	3.6	29
8	Do gait and muscle activation patterns change at middle-age during split-belt adaptation?. Journal of Biomechanics, 2020, 99, 109510.	2.1	8
9	Adaptive Control of Dynamic Balance across the Adult Lifespan. Medicine and Science in Sports and Exercise, 2020, 52, 2270-2277.	0.4	13
10	Gait Analysis with Wearables Can Accurately Classify Fallers from Non-Fallers: A Step toward Better Management of Neurological Disorders. Sensors, 2020, 20, 6992.	3.8	24
11	Classification of Neurological Patients to Identify Fallers Based on Spatial-Temporal Gait Characteristics Measured by a Wearable Device. Sensors, 2020, 20, 4098.	3.8	19
12	Age-specific modulation of intermuscular beta coherence during gait before and after experimentally induced fatigue. Scientific Reports, 2020, 10, 15854.	3.3	14
13	Anticipatory control of human gait following simulated slip exposure. Scientific Reports, 2020, 10, 9599.	3.3	7
14	The detection of age groups by dynamic gait outcomes using machine learning approaches. Scientific Reports, 2020, 10, 4426.	3.3	29
15	Long-term unsupervised mobility assessment in movement disorders. Lancet Neurology, The, 2020, 19, 462-470.	10.2	181
16	Handrail Holding During Treadmill Walking Reduces Locomotor Learning in Able-Bodied Persons. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2019, 27, 1753-1759.	4.9	22
17	Bilateral temporal control determines mediolateral margins of stability in symmetric and asymmetric human walking. Scientific Reports, 2019, 9, 12494.	3.3	28
18	Minimal effects of age and prolonged physical and mental exercise on healthy adults' gait. Gait and Posture, 2019, 74, 205-211.	1.4	12

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19	Standing task difficulty related increase in agonist-agonist and agonist-antagonist common inputs are driven by corticospinal and subcortical inputs respectively. Scientific Reports, 2019, 9, 2439.	3.3	19
20	Effects of Aging and Task Prioritization on Split-Belt Gait Adaptation. Frontiers in Aging Neuroscience, 2019, 11, 10.	3.4	29
21	Effects of experimentally induced fatigue on healthy older adults' gait: A systematic review. PLoS ONE, 2019, 14, e0226939.	2.5	23
22	Assessing dynamic postural control during exergaming in older adults: A probabilistic approach. Gait and Posture, 2018, 60, 235-240.	1.4	8
23	The relationship between gait dynamics and future cognitive decline: a prospective pilot study in geriatric patients. International Psychogeriatrics, 2018, 30, 1301-1309.	1.0	11
24	Assessing Dynamic Balance Performance During Exergaming Based on Speed and Curvature of Body Movements. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 171-180.	4.9	5
25	Using an ice-skating exergame to foster intercultural interaction between refugees and Dutch children. Cogent Education, 2018, 5, 1538587.	1.5	6
26	Adaptive control of dynamic balance in human gait on a split-belt treadmill. Journal of Experimental Biology, 2018, 221, .	1.7	50
27	In Standing, Corticospinal Excitability Is Proportional to COP Velocity Whereas M1 Excitability Is Participant-Specific. Frontiers in Human Neuroscience, 2018, 12, 303.	2.0	9
28	Visual Data Exploration for Balance Quantification in Real-Time During Exergaming. PLoS ONE, 2017, 12, e0170906.	2.5	5
29	Gait dynamics to optimize fall risk assessment in geriatric patients admitted to an outpatient diagnostic clinic. PLoS ONE, 2017, 12, e0178615.	2.5	40
30	Gait characteristics and their discriminative power in geriatric patients with and without cognitive impairment. Journal of NeuroEngineering and Rehabilitation, 2017, 14, 84.	4.6	21
31	The Association of Medication-Use and Frailty-Related Factors with Gait Performance in Older Patients. PLoS ONE, 2016, 11, e0149888.	2.5	22
32	Implicit and Explicit Learning of a Sequential Postural Weight-Shifting Task in Young and Older Adults. Frontiers in Psychology, 2016, 7, 733.	2.1	7
33	Curvature and speed for balance quantification during exergaming. , 2016, , .		2
34	Exergames for unsupervised balance training at home: A pilot study in healthy older adults. Gait and Posture, 2016, 44, 161-167.	1.4	51
35	Walking ability to predict future cognitive decline in old adults: A scoping review. Ageing Research Reviews, 2016, 27, 1-14.	10.9	121
36	Multiple gait parameters derived from iPod accelerometry predict age-related gait changes. Gait and Posture, 2016, 46, 112-117.	1.4	31

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37	Synergistic Structure in the Speed Dependent Modulation of Muscle Activity in Human Walking. PLoS ONE, 2016, 11, e0152784.	2.5	5
38	Multivariate Analyses and Classification of Inertial Sensor Data to Identify Aging Effects on the Timed-Up-and-Go Test. PLoS ONE, 2016, 11, e0155984.	2.5	53
39	P-138: Gait and patient characteristics that discriminate fallers from non-fallers in a geriatric population. European Geriatric Medicine, 2015, 6, S68-S69.	2.8	0
40	Quantifying Postural Control during Exergaming Using Multivariate Whole-Body Movement Data: A Self-Organizing Maps Approach. PLoS ONE, 2015, 10, e0134350.	2.5	16
41	Validity and Reliability of Gait and Postural Control Analysis Using the Tri-axial Accelerometer of the iPod Touch. Annals of Biomedical Engineering, 2015, 43, 1935-1946.	2.5	55
42	Early motor learning changes in upper-limb dynamics and shoulder complex loading during handrim wheelchair propulsion. Journal of NeuroEngineering and Rehabilitation, 2015, 12, 26.	4.6	29
43	Factors related to the high fall rate in long-term care residents with dementia. International Psychogeriatrics, 2015, 27, 803-814.	1.0	37
44	Associations between vertebral fractures, increased thoracic kyphosis, a flexed posture and falls in older adults: a prospective cohort study. BMC Geriatrics, 2015, 15, 34.	2.7	58
45	Effects of handrail hold and light touch on energetics, step parameters, and neuromuscular activity during walking after stroke. Journal of NeuroEngineering and Rehabilitation, 2015, 12, 70.	4.6	41
46	Effects of Visual Feedback-Induced Variability on Motor Learning of Handrim Wheelchair Propulsion. PLoS ONE, 2015, 10, e0127311.	2.5	13
47	Differences between Young and Older Adults in the Control of Weight Shifting within the Surface of Support. PLoS ONE, 2014, 9, e98494.	2.5	13
48	Initial Skill Acquisition of Handrim Wheelchair Propulsion: A New Perspective. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2014, 22, 104-113.	4.9	51
49	A flexed posture in elderly patients is associated with impairments in postural control during walking. Gait and Posture, 2014, 39, 767-772.	1.4	62
50	Can external lateral stabilization reduce the energy cost of walking in persons with a lower limb amputation?. Gait and Posture, 2014, 40, 616-621.	1.4	29
51	Suitability of Kinect for measuring whole body movement patterns during exergaming. Journal of Biomechanics, 2014, 47, 2925-2932.	2.1	87
52	Shotgun approaches to gait analysis: insights & limitations. Journal of NeuroEngineering and Rehabilitation, 2014, 11, 120.	4.6	6
53	Postural threat during walking: effects on energy cost and accompanying gait changes. Journal of NeuroEngineering and Rehabilitation, 2014, 11, 71.	4.6	20
54	Inter-Individual Differences in the Initial 80 Minutes of Motor Learning of Handrim Wheelchair Propulsion. PLoS ONE, 2014, 9, e89729.	2.5	36

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55	Variability in bimanual wheelchair propulsion: consistency of two instrumented wheels during handrim wheelchair propulsion on a motor driven treadmill. Journal of NeuroEngineering and Rehabilitation, 2013, 10, 9.	4.6	45
56	Sensor technologies aiming at fall prevention in institutionalized old adults: A synthesis of current knowledge. International Journal of Medical Informatics, 2013, 82, 743-752.	3.3	63
57	The Effects of Fall-Risk-Increasing Drugs on Postural Control: A Literature Review. Drugs and Aging, 2013, 30, 901-920.	2.7	71
58	Exergaming for balance training of elderly: state of the art and future developments. Journal of NeuroEngineering and Rehabilitation, 2013, 10, 101.	4.6	195
59	Authors' Reply to Toda: "The Effects of Fall-Risk-Increasing Drugs on Postural Control: A Literature Review". Drugs and Aging, 2013, 30, 1041-1042.	2.7	1
60	Energy cost of balance control during walking decreases with external stabilizer stiffness independent of walking speed. Journal of Biomechanics, 2013, 46, 2109-2114.	2.1	68
61	Effect of Balance Support on the Energy Cost of Walking After Stroke. Archives of Physical Medicine and Rehabilitation, 2013, 94, 2255-2261.	0.9	51
62	Effective Feedback Procedures in Games for Health. Games for Health Journal, 2013, 2, 320-326.	2.0	17
63	Effectiveness and feasibility of early physical rehabilitation programs for geriatric hospitalized patients: a systematic review. BMC Geriatrics, 2013, 13, 107.	2.7	112
64	Gait and cognition: The relationship between gait stability and variability with executive function in persons with and without dementia. Gait and Posture, 2012, 35, 126-130.	1.4	208
65	Sports activities are reflected in the local stability and regularity of body sway: Older ice-skaters have better postural control than inactive elderly. Gait and Posture, 2012, 35, 489-493.	1.4	61
66	Testing postural control among various osteoporotic patient groups: A literature review. Geriatrics and Gerontology International, 2012, 12, 573-585.	1.5	16
67	Skill acquisition of manual wheelchair propulsion: initial motor learning. BIO Web of Conferences, 2011, 1, 00093.	0.2	0
68	Gait stability and variability measures show effects of impaired cognition and dual tasking in frail people. Journal of NeuroEngineering and Rehabilitation, 2011, 8, 2.	4.6	207
69	Variability and stability analysis of walking of transfemoral amputees. Medical Engineering and Physics, 2010, 32, 1009-1014.	1.7	124
70	Stability and variability of acoustically specified coordination patterns while walking side-by-side on a treadmill: Does the seagull effect hold?. Neuroscience Letters, 2010, 474, 79-83.	2.1	19
71	Energy expenditure of stroke patients during postural control tasks. Gait and Posture, 2010, 32, 321-326.	1.4	41
72	Rhythm Perturbations in Acoustically Paced Treadmill Walking After Stroke. Neurorehabilitation and Neural Repair, 2009, 23, 668-678.	2.9	95

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73	Steady and transient coordination structures of walking and running. Human Movement Science, 2009, 28, 371-386.	1.4	60
74	Athletic skill level is reflected in body sway: A test case for accelometry in combination with stochastic dynamics. Gait and Posture, 2009, 29, 546-551.	1.4	121
75	Exergaming and balance training. Gait and Posture, 2009, 30, S144-S145.	1.4	0
76	Online gait event detection using a large force platform embedded in a treadmill. Journal of Biomechanics, 2008, 41, 2628-2632.	2.1	147
77	Gait in Pregnancy-related Pelvic girdle Pain: amplitudes, timing, and coordination of horizontal trunk rotations. European Spine Journal, 2008, 17, 1160-1169.	2.2	68
78	Effects of attention on the control of locomotion in individuals with chronic low back pain. Journal of NeuroEngineering and Rehabilitation, 2008, 5, 13.	4.6	98
79	Characteristics of instructed and uninstructed interpersonal coordination while walking side-by-side. Neuroscience Letters, 2008, 432, 88-93.	2.1	216
80	Coordination of leg swing, thorax rotations, and pelvis rotations during gait: The organisation of total body angular momentum. Gait and Posture, 2008, 27, 455-462.	1.4	158
81	Gait Coordination After Stroke: Benefits of Acoustically Paced Treadmill Walking. Physical Therapy, 2007, 87, 1009-1022.	2.4	214
82	How do persons with chronic low back pain speed up and slow down?. Gait and Posture, 2006, 23, 230-239.	1.4	130
83	Auditory-paced walking following stroke. Gait and Posture, 2006, 24, S95-S97.	1.4	0
84	Effects of chronic low back pain on trunk coordination and back muscle activity during walking: changes in motor control. European Spine Journal, 2006, 15, 23-40.	2.2	310
85	Effects of experimentally induced pain and fear of pain on trunk coordination and back muscle activity during walking. Clinical Biomechanics, 2004, 19, 551-563.	1.2	100
86	PCA in studying coordination and variability: a tutorial. Clinical Biomechanics, 2004, 19, 415-428.	1.2	535
87	Gait coordination in pregnancy: transverse pelvic and thoracic rotations and their relative phase. Clinical Biomechanics, 2004, 19, 480-488.	1.2	82
88	Pelvis-Thorax Coordination in the Transverse Plane During Walking in Persons With Nonspecific Low Back Pain. Spine, 2002, 27, E92-E99.	2.0	181
89	Pelvisâ€"thorax coordination in the transverse plane during gait. Gait and Posture, 2002, 16, 101-114.	1.4	152
90	Gait in patients with pregnancy-related pain in the pelvis: an emphasis on the coordination of transverse pelvic and thoracic rotations. Clinical Biomechanics, 2002, 17, 678-686.	1.2	43

#	ARTICLE	IF	CITATIONS
91	Serie onderzoek en psychotherapie: Catastrofale misinterpretaties. Tijdschrift Voor Psychotherapie, 2002, 28, 73-82.	0.2	2