

Claudine Jc Lamoth

List of Publications by Year in descending order

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Version: 2024-02-01

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	PCA in studying coordination and variability: a tutorial. <i>Clinical Biomechanics</i> , 2004, 19, 415-428.	1.2	535
2	Effects of chronic low back pain on trunk coordination and back muscle activity during walking: changes in motor control. <i>European Spine Journal</i> , 2006, 15, 23-40.	2.2	310
3	Characteristics of instructed and uninstructed interpersonal coordination while walking side-by-side. <i>Neuroscience Letters</i> , 2008, 432, 88-93.	2.1	216
4	Gait Coordination After Stroke: Benefits of Acoustically Paced Treadmill Walking. <i>Physical Therapy</i> , 2007, 87, 1009-1022.	2.4	214
5	Gait and cognition: The relationship between gait stability and variability with executive function in persons with and without dementia. <i>Gait and Posture</i> , 2012, 35, 126-130.	1.4	208
6	Gait stability and variability measures show effects of impaired cognition and dual tasking in frail people. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2011, 8, 2.	4.6	207
7	Exergaming for balance training of elderly: state of the art and future developments. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2013, 10, 101.	4.6	195
8	Pelvis-Thorax Coordination in the Transverse Plane During Walking in Persons With Nonspecific Low Back Pain. <i>Spine</i> , 2002, 27, E92-E99.	2.0	181
9	Long-term unsupervised mobility assessment in movement disorders. <i>Lancet Neurology</i> , The, 2020, 19, 462-470.	10.2	181
10	Coordination of leg swing, thorax rotations, and pelvis rotations during gait: The organisation of total body angular momentum. <i>Gait and Posture</i> , 2008, 27, 455-462.	1.4	158
11	Pelvis-thorax coordination in the transverse plane during gait. <i>Gait and Posture</i> , 2002, 16, 101-114.	1.4	152
12	Online gait event detection using a large force platform embedded in a treadmill. <i>Journal of Biomechanics</i> , 2008, 41, 2628-2632.	2.1	147
13	How do persons with chronic low back pain speed up and slow down?. <i>Gait and Posture</i> , 2006, 23, 230-239.	1.4	130
14	Variability and stability analysis of walking of transfemoral amputees. <i>Medical Engineering and Physics</i> , 2010, 32, 1009-1014.	1.7	124
15	Athletic skill level is reflected in body sway: A test case for accelometry in combination with stochastic dynamics. <i>Gait and Posture</i> , 2009, 29, 546-551.	1.4	121
16	Walking ability to predict future cognitive decline in old adults: A scoping review. <i>Ageing Research Reviews</i> , 2016, 27, 1-14.	10.9	121
17	Effectiveness and feasibility of early physical rehabilitation programs for geriatric hospitalized patients: a systematic review. <i>BMC Geriatrics</i> , 2013, 13, 107.	2.7	112
18	Effects of experimentally induced pain and fear of pain on trunk coordination and back muscle activity during walking. <i>Clinical Biomechanics</i> , 2004, 19, 551-563.	1.2	100

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19	Effects of attention on the control of locomotion in individuals with chronic low back pain. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2008, 5, 13.	4.6	98
20	Rhythm Perturbations in Acoustically Paced Treadmill Walking After Stroke. <i>Neurorehabilitation and Neural Repair</i> , 2009, 23, 668-678.	2.9	95
21	Suitability of Kinect for measuring whole body movement patterns during exergaming. <i>Journal of Biomechanics</i> , 2014, 47, 2925-2932.	2.1	87
22	Gait coordination in pregnancy: transverse pelvic and thoracic rotations and their relative phase. <i>Clinical Biomechanics</i> , 2004, 19, 480-488.	1.2	82
23	The Effects of Fall-Risk-Increasing Drugs on Postural Control: A Literature Review. <i>Drugs and Aging</i> , 2013, 30, 901-920.	2.7	71
24	Gait in Pregnancy-related Pelvic girdle Pain: amplitudes, timing, and coordination of horizontal trunk rotations. <i>European Spine Journal</i> , 2008, 17, 1160-1169.	2.2	68
25	Energy cost of balance control during walking decreases with external stabilizer stiffness independent of walking speed. <i>Journal of Biomechanics</i> , 2013, 46, 2109-2114.	2.1	68
26	Sensor technologies aiming at fall prevention in institutionalized old adults: A synthesis of current knowledge. <i>International Journal of Medical Informatics</i> , 2013, 82, 743-752.	3.3	63
27	A flexed posture in elderly patients is associated with impairments in postural control during walking. <i>Gait and Posture</i> , 2014, 39, 767-772.	1.4	62
28	Sports activities are reflected in the local stability and regularity of body sway: Older ice-skaters have better postural control than inactive elderly. <i>Gait and Posture</i> , 2012, 35, 489-493.	1.4	61
29	Steady and transient coordination structures of walking and running. <i>Human Movement Science</i> , 2009, 28, 371-386.	1.4	60
30	Associations between vertebral fractures, increased thoracic kyphosis, a flexed posture and falls in older adults: a prospective cohort study. <i>BMC Geriatrics</i> , 2015, 15, 34.	2.7	58
31	Validity and Reliability of Gait and Postural Control Analysis Using the Tri-axial Accelerometer of the iPod Touch. <i>Annals of Biomedical Engineering</i> , 2015, 43, 1935-1946.	2.5	55
32	Multivariate Analyses and Classification of Inertial Sensor Data to Identify Aging Effects on the Timed-Up-and-Go Test. <i>PLoS ONE</i> , 2016, 11, e0155984.	2.5	53
33	Effect of Balance Support on the Energy Cost of Walking After Stroke. <i>Archives of Physical Medicine and Rehabilitation</i> , 2013, 94, 2255-2261.	0.9	51
34	Initial Skill Acquisition of Handrim Wheelchair Propulsion: A New Perspective. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2014, 22, 104-113.	4.9	51
35	Exergames for unsupervised balance training at home: A pilot study in healthy older adults. <i>Gait and Posture</i> , 2016, 44, 161-167.	1.4	51
36	Adaptive control of dynamic balance in human gait on a split-belt treadmill. <i>Journal of Experimental Biology</i> , 2018, 221, .	1.7	50

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37	Variability in bimanual wheelchair propulsion: consistency of two instrumented wheels during handrim wheelchair propulsion on a motor driven treadmill. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2013, 10, 9.	4.6	45
38	Gait in patients with pregnancy-related pain in the pelvis: an emphasis on the coordination of transverse pelvic and thoracic rotations. <i>Clinical Biomechanics</i> , 2002, 17, 678-686.	1.2	43
39	Energy expenditure of stroke patients during postural control tasks. <i>Gait and Posture</i> , 2010, 32, 321-326.	1.4	41
40	Effects of handrail hold and light touch on energetics, step parameters, and neuromuscular activity during walking after stroke. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2015, 12, 70.	4.6	41
41	Gait dynamics to optimize fall risk assessment in geriatric patients admitted to an outpatient diagnostic clinic. <i>PLoS ONE</i> , 2017, 12, e0178615.	2.5	40
42	Factors related to the high fall rate in long-term care residents with dementia. <i>International Psychogeriatrics</i> , 2015, 27, 803-814.	1.0	37
43	Inter-Individual Differences in the Initial 80 Minutes of Motor Learning of Handrim Wheelchair Propulsion. <i>PLoS ONE</i> , 2014, 9, e89729.	2.5	36
44	Multiple gait parameters derived from iPod accelerometry predict age-related gait changes. <i>Gait and Posture</i> , 2016, 46, 112-117.	1.4	31
45	Can external lateral stabilization reduce the energy cost of walking in persons with a lower limb amputation?. <i>Gait and Posture</i> , 2014, 40, 616-621.	1.4	29
46	Early motor learning changes in upper-limb dynamics and shoulder complex loading during handrim wheelchair propulsion. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2015, 12, 26.	4.6	29
47	Long-Term Exposure to Anticholinergic and Sedative Medications and Cognitive and Physical Function in Later Life. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2020, 75, 357-365.	3.6	29
48	Effects of Aging and Task Prioritization on Split-Belt Gait Adaptation. <i>Frontiers in Aging Neuroscience</i> , 2019, 11, 10.	3.4	29
49	The detection of age groups by dynamic gait outcomes using machine learning approaches. <i>Scientific Reports</i> , 2020, 10, 4426.	3.3	29
50	Bilateral temporal control determines mediolateral margins of stability in symmetric and asymmetric human walking. <i>Scientific Reports</i> , 2019, 9, 12494.	3.3	28
51	Gait Analysis with Wearables Can Accurately Classify Fallers from Non-Fallers: A Step toward Better Management of Neurological Disorders. <i>Sensors</i> , 2020, 20, 6992.	3.8	24
52	Effects of experimentally induced fatigue on healthy older adults' gait: A systematic review. <i>PLoS ONE</i> , 2019, 14, e0226939.	2.5	23
53	The Association of Medication-Use and Frailty-Related Factors with Gait Performance in Older Patients. <i>PLoS ONE</i> , 2016, 11, e0149888.	2.5	22
54	Handrail Holding During Treadmill Walking Reduces Locomotor Learning in Able-Bodied Persons. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2019, 27, 1753-1759.	4.9	22

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55	Gait characteristics and their discriminative power in geriatric patients with and without cognitive impairment. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2017, 14, 84.	4.6	21
56	Postural threat during walking: effects on energy cost and accompanying gait changes. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2014, 11, 71.	4.6	20
57	Stability and variability of acoustically specified coordination patterns while walking side-by-side on a treadmill: Does the seagull effect hold?. <i>Neuroscience Letters</i> , 2010, 474, 79-83.	2.1	19
58	Standing task difficulty related increase in agonist-agonist and agonist-antagonist common inputs are driven by corticospinal and subcortical inputs respectively. <i>Scientific Reports</i> , 2019, 9, 2439.	3.3	19
59	Classification of Neurological Patients to Identify Fallers Based on Spatial-Temporal Gait Characteristics Measured by a Wearable Device. <i>Sensors</i> , 2020, 20, 4098.	3.8	19
60	Effective Feedback Procedures in Games for Health. <i>Games for Health Journal</i> , 2013, 2, 320-326.	2.0	17
61	Testing postural control among various osteoporotic patient groups: A literature review. <i>Geriatrics and Gerontology International</i> , 2012, 12, 573-585.	1.5	16
62	Quantifying Postural Control during Exergaming Using Multivariate Whole-Body Movement Data: A Self-Organizing Maps Approach. <i>PLoS ONE</i> , 2015, 10, e0134350.	2.5	16
63	Age-specific modulation of intermuscular beta coherence during gait before and after experimentally induced fatigue. <i>Scientific Reports</i> , 2020, 10, 15854.	3.3	14
64	Differences between Young and Older Adults in the Control of Weight Shifting within the Surface of Support. <i>PLoS ONE</i> , 2014, 9, e98494.	2.5	13
65	Adaptive Control of Dynamic Balance across the Adult Lifespan. <i>Medicine and Science in Sports and Exercise</i> , 2020, 52, 2270-2277.	0.4	13
66	Effects of Visual Feedback-Induced Variability on Motor Learning of Handrim Wheelchair Propulsion. <i>PLoS ONE</i> , 2015, 10, e0127311.	2.5	13
67	Minimal effects of age and prolonged physical and mental exercise on healthy adults's gait. <i>Gait and Posture</i> , 2019, 74, 205-211.	1.4	12
68	The relationship between gait dynamics and future cognitive decline: a prospective pilot study in geriatric patients. <i>International Psychogeriatrics</i> , 2018, 30, 1301-1309.	1.0	11
69	Coordination of Axial Trunk Rotations During Gait in Low Back Pain. A Narrative Review. <i>Journal of Human Kinetics</i> , 2021, 76, 35-50.	1.5	10
70	In Standing, Corticospinal Excitability Is Proportional to COP Velocity Whereas M1 Excitability Is Participant-Specific. <i>Frontiers in Human Neuroscience</i> , 2018, 12, 303.	2.0	9
71	Task specificity and neural adaptations after balance learning in young adults. <i>Human Movement Science</i> , 2021, 78, 102833.	1.4	9
72	Assessing dynamic postural control during exergaming in older adults: A probabilistic approach. <i>Gait and Posture</i> , 2018, 60, 235-240.	1.4	8

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73	Do gait and muscle activation patterns change at middle-age during split-belt adaptation?. Journal of Biomechanics, 2020, 99, 109510.	2.1	8
74	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
75	Anticipatory control of human gait following simulated slip exposure. Scientific Reports, 2020, 10, 9599.	3.3	7
76	Outcome-dependent effects of walking speed and age on quantitative and qualitative gait measures. Gait and Posture, 2022, 93, 39-46.	1.4	7
77	Shotgun approaches to gait analysis: insights & limitations. Journal of NeuroEngineering and Rehabilitation, 2014, 11, 120.	4.6	6
78	Using an ice-skating exergame to foster intercultural interaction between refugees and Dutch children. Cogent Education, 2018, 5, 1538587.	1.5	6
79	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
80	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
81	Visual Data Exploration for Balance Quantification in Real-Time During Exergaming. PLoS ONE, 2017, 12, e0170906.	2.5	5
82	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
83	Synergistic Structure in the Speed Dependent Modulation of Muscle Activity in Human Walking. PLoS ONE, 2016, 11, e0152784.	2.5	5
84	Serie onderzoek en psychotherapie: Catastrofale misinterpretaties. Tijdschrift Voor Psychotherapie, 2002, 28, 73-82.	0.2	2
85	Curvature and speed for balance quantification during exergaming. , 2016, , .		2
86	Authorsâ€™ Reply to Toda: â€œThe Effects of Fall-Risk-Increasing Drugs on Postural Control: A Literature Reviewâ€• Drugs and Aging, 2013, 30, 1041-1042.	2.7	1
87	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
88	Auditory-paced walking following stroke. Gait and Posture, 2006, 24, S95-S97.	1.4	0
89	Exergaming and balance training. Gait and Posture, 2009, 30, S144-S145.	1.4	0
90	Skill acquisition of manual wheelchair propulsion: initial motor learning. BIO Web of Conferences, 2011, 1, 00093.	0.2	0

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91	P-138: Gait and patient characteristics that discriminate fallers from non-fallers in a geriatric population. <i>European Geriatric Medicine</i> , 2015, 6, S68-S69.	2.8	0