Silvia Del Din

List of Publications by Year
in descending order

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87	3,643	172457	155660
papers	citations	29 h-index	55 g-index

98	98	98	3501
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Addition of a non-immersive virtual reality component to treadmill training to reduce fall risk in older adults (V-TIME): a randomised controlled trial. Lancet, The, 2016, 388, 1170-1182.	13.7	328
2	Free-living monitoring of Parkinson's disease: Lessons from the field. Movement Disorders, 2016, 31, 1293-1313.	3.9	252
3	Validation of an Accelerometer to Quantify a Comprehensive Battery of Gait Characteristics in Healthy Older Adults and Parkinson's Disease: Toward Clinical and at Home Use. IEEE Journal of Biomedical and Health Informatics, 2016, 20, 838-847.	6.3	246
4	Free-living gait characteristics in ageing and Parkinsonâ€™s disease: impact of environment and ambulatory bout length. Journal of NeuroEngineering and Rehabilitation, 2016, 13, 46.	4.6	228
5	Instrumenting gait with an accelerometer: A system and algorithm examination. Medical Engineering and Physics, 2015, 37, 400-407.	1.7	170
6	Is every-day walking in older adults more analogous to dual-task walking or to usual walking? Elucidating the gaps between gait performance in the lab and during 24/7 monitoring. European Review of Aging and Physical Activity, 2019, 16, 6.	2.9	151
7	Gait analysis with wearables predicts conversion to Parkinson disease. Annals of Neurology, 2019, 86, 357-367.	5.3	137
8	Analysis of Free-Living Gait in Older Adults With and Without Parkinsonâ€™s Disease and With and Without a History of Falls: Identifying Generic and Disease-Specific Characteristics. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2019, 74, 500-506.	3.6	132
9	Detecting free-living steps and walking bouts: validating an algorithm for macro gait analysis. Physiological Measurement, 2017, 38, N1-N15.	2.1	109
10	The Role of Movement Analysis in Diagnosing and Monitoring Neurodegenerative Conditions: Insights from Gait and Postural Control. Brain Sciences, 2019, 9, 34.	2.3	109
11	Validation of a Step Detection Algorithm during Straight Walking and Turning in Patients with Parkinsonâ€™s Disease and Older Adults Using an Inertial Measurement Unit at the Lower Back. Frontiers in Neurology, 2017, 8, 457.	2.4	79
12	Selecting Clinically Relevant Gait Characteristics for Classification of Early Parkinsonâ€™s Disease: A Comprehensive Machine Learning Approach. Scientific Reports, 2019, 9, 17269.	3.3	76
13	Associations between daily-living physical activity and laboratory-based assessments of motor severity in patients with falls and Parkinson's disease. Parkinsonism and Related Disorders, 2019, 62, 85-90.	2.2	70
14	Differentiating dementia disease subtypes with gait analysis: feasibility of wearable sensors?. Gait and Posture, 2020, 76, 372-376.	1.4	68
15	Estimating fugl-meyer clinical scores in stroke survivors using wearable sensors. , 2011, 2011, 5839-42.		65
16	A model of free-living gait: A factor analysis in Parkinsonâ€™s disease. Gait and Posture, 2017, 52, 68-71.	1.4	63
17	Estimation of spatio-temporal parameters of gait from magneto-inertial measurement units: multicenter validation among Parkinson, mildly cognitively impaired and healthy older adults. BioMedical Engineering OnLine, 2018, 17, 58.	2.7	56
18	Technical validation of real-world monitoring of gait: a multicentric observational study. BMJ Open, 2021, 11, e050785.	1.9	56

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19	Measuring gait with an accelerometer-based wearable: influence of device location, testing protocol and age. Physiological Measurement, 2016, 37, 1785-1797.	2.1	51
20	Biomechanical assessment of balance and posture in subjects with ankylosing spondylitis. Journal of NeuroEngineering and Rehabilitation, 2012, 9, 63.	4.6	49
21	Body-Worn Sensors for Remote Monitoring of Parkinsonâ€™s Disease Motor Symptoms: Vision, State of the Art, and Challenges Ahead. Journal of Parkinson's Disease, 2021, 11, S35-S47.	2.8	47
22	Impaired gait in ankylosing spondylitis. Medical and Biological Engineering and Computing, 2011, 49, 801-809.	2.8	46
23	Gait in Mild Alzheimerâ€™s Disease: Feasibility of Multi-Center Measurement in the Clinic and Home with Body-Worn Sensors: A Pilot Study. Journal of Alzheimer's Disease, 2018, 63, 331-341.	2.6	42
24	Falls Risk in Relation to Activity Exposure in High-Risk Older Adults. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2020, 75, 1198-1205.	3.6	40
25	Detecting Sensitive Mobility Features for Parkinson's Disease Stages Via Machine Learning. Movement Disorders, 2021, 36, 2144-2155.	3.9	40
26	Everyday Stepping Quantity and Quality Among Older Adult Fallers With and Without Mild Cognitive Impairment: Initial Evidence for New Motor Markers of Cognitive Deficits?. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2018, 73, 1078-1082.	3.6	39
27	Validity of a wearable accelerometer to quantify gait in spinocerebellar ataxia type 6. Physiological Measurement, 2016, 37, N105-N117.	2.1	36
28	iCap: Instrumented assessment of physical capability. Maturitas, 2015, 82, 116-122.	2.4	35
29	Comprehensive measurement of stroke gait characteristics with a single accelerometer in the laboratory and community: a feasibility, validity and reliability study. Journal of NeuroEngineering and Rehabilitation, 2017, 14, 130.	4.6	35
30	Comparison of Walking Protocols and Gait Assessment Systems for Machine Learning-Based Classification of Parkinsonâ€™s Disease. Sensors, 2019, 19, 5363.	3.8	35
31	Tossing and Turning in Bed: Nocturnal Movements in Parkinson's Disease. Movement Disorders, 2020, 35, 959-968.	3.9	34
32	Accelerometry-Based Digital Gait Characteristics for Classification of Parkinson's Disease: What Counts?. IEEE Open Journal of Engineering in Medicine and Biology, 2020, 1, 65-73.	2.3	34
33	Exenatide once weekly over 2 years as a potential disease-modifying treatment for Parkinsonâ€™s disease: protocol for a multicentre, randomised, double blind, parallel group, placebo controlled, phase 3 trial: The â€˜Exenatide-PD3â€™ study. BMJ Open, 2021, 11, e047993.	1.9	32
34	The Impact of Environment on Gait Assessment: Considerations from Real-World Gait Analysis in Dementia Subtypes. Sensors, 2021, 21, 813.	3.8	31
35	Consensus based framework for digital mobility monitoring. PLoS ONE, 2021, 16, e0256541.	2.5	31
36	Gait Asymmetry Post-Stroke: Determining Valid and Reliable Methods Using a Single Accelerometer Located on the Trunk. Sensors, 2020, 20, 37.	3.8	29

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37	Continuous Real-World Gait Monitoring in Idiopathic REM Sleep Behavior Disorder. Journal of Parkinson's Disease, 2020, 10, 283-299.	2.8	27
38	Longitudinal changes over thirty-six months in postural control dynamics and cognitive function in people with Parkinson's disease. Gait and Posture, 2018, 62, 468-474.	1.4	25
39	Postural Dynamics Are Associated With Cognitive Decline in Parkinson's Disease. Frontiers in Neurology, 2018, 9, 1044.	2.4	25
40	Developing a toolkit for the assessment and monitoring of musculoskeletal ageing. Age and Ageing, 2018, 47, iv1-iv19.	1.6	25
41	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
42	Instrumented gait assessment with a single wearable: an introductory tutorial. F1000Research, 0, 5, 2323.	1.6	24
43	Instrumented assessment of test battery for physical capability using an accelerometer: a feasibility study. Physiological Measurement, 2015, 36, N71-N83.	2.1	23
44	Entropy of Real-World Gait in Parkinsonâ€™s Disease Determined from Wearable Sensors as a Digital Marker of Altered Ambulatory Behavior. Sensors, 2020, 20, 2631.	3.8	23
45	Deep Learning Techniques for Improving Digital Gait Segmentation. , 2019, 2019, 1834-1837.		22
46	Turning Detection During Gait: Algorithm Validation and Influence of Sensor Location and Turning Characteristics in the Classification of Parkinsonâ€™s Disease. Sensors, 2020, 20, 5377.	3.8	22
47	Within trial validation and reliability of a single tri-axial accelerometer for gait assessment. , 2014, 2014, 5892-5.		19
48	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
49	Time-dependent changes in postural control in early Parkinsonâ€™s disease: what are we missing?. Medical and Biological Engineering and Computing, 2016, 54, 401-410.	2.8	18
50	Detection of Gait From Continuous Inertial Sensor Data Using Harmonic Frequencies. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 1-1.	6.3	18
51	Assessment of biofeedback rehabilitation in post-stroke patients combining fMRI and gait analysis: a case study. Journal of NeuroEngineering and Rehabilitation, 2014, 11, 53.	4.6	17
52	Towards holistic free-living assessment in Parkinson's disease: Unification of gait and fall algorithms with a single accelerometer. , 2016, 2016, 651-654.		16
53	Factors That Influence Habitual Activity in Mild Cognitive Impairment and Dementia. Gerontology, 2020, 66, 197-208.	2.8	16
54	An Objective Methodology for the Selection of a Device for Continuous Mobility Assessment. Sensors, 2020, 20, 6509.	3.8	15

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55	Altered EMG patterns in diabetic neuropathic and not neuropathic patients during step ascending and descending. Journal of Electromyography and Kinesiology, 2016, 31, 32-39.	1.7	13
56	Beyond the front end: Investigating a thigh worn accelerometer device for step count and bout detection in Parkinson's disease. Medical Engineering and Physics, 2016, 38, 1524-1529.	1.7	13
57	Quantifying physical activity in aged residential care facilities: A structured review. Ageing Research Reviews, 2021, 67, 101298.	10.9	13
58	Evaluating the effects of an exercise program (Staying UpRight) for older adults in long-term care on rates of falls: study protocol for a randomised controlled trial. Trials, 2020, 21, 46.	1.6	12
59	Are Accelerometer-based Functional Outcome Assessments Feasible and Valid After Treatment for Lower Extremity Sarcomas?. Clinical Orthopaedics and Related Research, 2020, 478, 482-503.	1.5	12
60	Home-Based Physical Behavior in Late Stage Parkinson Disease Dementia: Differences between Cognitive Subtypes. Neurodegenerative Diseases, 2017, 17, 135-144.	1.4	10
61	Monitoring Walking Activity with Wearable Technology in Rural-dwelling Older Adults in Tanzania: A Feasibility Study Nested within a Frailty Prevalence Study. Experimental Aging Research, 2020, 46, 367-381.	1.2	10
62	Vision, visuo-cognition and postural control in Parkinson's disease: An associative pilot study. Gait and Posture, 2016, 48, 74-76.	1.4	9
63	Toward a low-cost gait analysis system for clinical and free-living assessment. , 2016, 2016, 1874-1877.		9
64	Investigating the Impact of Environment and Data Aggregation by Walking Bout Duration on Parkinsonâ€™s Disease Classification Using Machine Learning. Frontiers in Aging Neuroscience, 2022, 14, 808518.	3.4	9
65	Accelerometer-based gait assessment: Pragmatic deployment on an international scale. , 2016, , .		8
66	Estimating cut points: A simple method for new wearables. Maturitas, 2016, 83, 78-82.	2.4	8
67	Quantifying Reliable Walking Activity with a Wearable Device in Aged Residential Care: How Many Days Are Enough?. Sensors, 2020, 20, 6314.	3.8	8
68	Balance Impairments as Differential Markers of Dementia Disease Subtype. Frontiers in Bioengineering and Biotechnology, 2021, 9, 639337.	4.1	6
69	An Algorithm for Accurate Marker-Based Gait Event Detection in Healthy and Pathological Populations During Complex Motor Tasks. Frontiers in Bioengineering and Biotechnology, 2022, 10, .	4.1	6
70	A low-power multi-modal body sensor network with application to epileptic seizure monitoring. , 2011, 2011, 1806-9.		5
71	A Novel Parameterisation of Phase Plots for Monitoring of Parkinsonâ€™s Disease. , 2019, 2019, 5890-5893.		5
72	Factors Influencing Habitual Physical Activity in Parkinsonâ€™s Disease: Considering the Psychosocial State and Wellbeing of People with Parkinsonâ€™s and Their Carers. Sensors, 2022, 22, 871.	3.8	5

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73	Evaluation of daily walking activity and gait profiles: a novel application of a time series analysis framework. , 2019, 2019, 2482-2485.		4
74	Gait analysis as a clinical tool for dementia: current perspectives and future challenges. Advances in Clinical Neuroscience & Rehabilitation: ACNR, 2021, 20, .	0.1	3
75	Auditory rhythmical cueing to improve gait and physical activity in community-dwelling stroke survivors (ACTIVATE): study protocol for a pilot randomised controlled trial. Pilot and Feasibility Studies, 2020, 6, 68.	1.2	2
76	Wild by Design: Workshop on Designing Ubiquitous Health Monitoring Technologies for Challenging Environments. , 2021, , .		2
77	Optimising function and well-being in older adults: protocol for an integrated research programme in Aotearoa/New Zealand. BMC Geriatrics, 2022, 22, 215.	2.7	2
78	Free-living monitoring of ambulatory activity after treatments for lower extremity musculoskeletal cancers using an accelerometer-based wearable â€“ a new paradigm to outcome assessment in musculoskeletal oncology?. Disability and Rehabilitation, 0, , 1-10.	1.8	2
79	Towards a toolkit for the assessment and monitoring of musculoskeletal ageing. Age and Ageing, 2018, 47, 774-777.	1.6	1
80	Predicting the Progression of Parkinsonâ€™s Disease MDS-UPDRS-III Motor Severity Score from Gait Data using Deep Learning. , 2021, 2021, 249-252.		1
81	Acceptability and deliverability of an auditory rhythmical cueing (ARC) training programme for use at home and outdoors to improve gait and physical activity post-stroke. Archives of Physiotherapy, 2022, 12, 1.	1.8	1
82	Walking is Associated With Physical Capacity and Fatigue but not Cognition in Long-Term Care Residents. Journal of the American Medical Directors Association, 2022, 23, e1-e2.	2.5	1
83	WEARABLES REVEAL A GAP BETWEEN GAIT PERFORMANCE IN THE LAB AND DURING 24/7 MONITORING IN OLDER ADULTS. Innovation in Aging, 2019, 3, S335-S335.	0.1	0
84	Reply to â€œQuantitative Motor Functioning in Prodromal Parkinson Diseaseâ€• Annals of Neurology, 2019, 86, 981-982.	5.3	0
85	Use of wearable technology to assess activity in cognitively impaired populations: Inside care homes and the community. Alzheimer's and Dementia, 2020, 16, e039074.	0.8	0
86	Tossing and Turning in Bed: A Wearable Sensor Documents Abnormal Nocturnal Movements in Parkinson's Disease. SSRN Electronic Journal, 0, , .	0.4	0
87	Digital mobility outcomes to assess habitual physical activity in people with cognitive impairment: A systematic review. Alzheimer's and Dementia, 2021, 17, e055547.	0.8	0