

Martina Mancini

List of Publications by Year in descending order

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Version: 2024-02-01

121
papers

6,182
citations

76326

40
h-index

79698

73
g-index

122
all docs

122
docs citations

122
times ranked

4804
citing authors

#	ARTICLE	IF	CITATIONS
1	Staying UpRight in Parkinson's disease: A pilot study of a novel wearable postural intervention. <i>Gait and Posture</i> , 2022, 91, 86-93.	1.4	3
2	Relationship Between Brain Volumes and Objective Balance and Gait Measures in Parkinson's Disease. <i>Journal of Parkinson's Disease</i> , 2022, 12, 283-294.	2.8	5
3	Surrogates for rigidity and PIGD MDS-UPDRS subscores using wearable sensors. <i>Gait and Posture</i> , 2022, 91, 186-191.	1.4	10
4	Inertial Sensor Algorithm to Estimate Walk Distance. <i>Sensors</i> , 2022, 22, 1077.	3.8	8
5	Perspective: Balance Assessments in Progressive Supranuclear Palsy: Lessons Learned. <i>Frontiers in Neurology</i> , 2022, 13, 801291.	2.4	4
6	Editorial: Cross-Disciplinary Approaches to Characterize Gait and Posture Disturbances in Aging and Related Diseases. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, 888910.	4.1	0
7	Does visual cueing improve gait initiation in people with Parkinson's disease?. <i>Human Movement Science</i> , 2022, 84, 102970.	1.4	7
8	Resting state functional networks predict different aspects of postural control in Parkinson's disease. <i>Gait and Posture</i> , 2022, 97, 122-129.	1.4	7
9	Inertial Sensor Algorithms to Characterize Turning in Neurological Patients With Turn Hesitations. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 2615-2625.	4.2	4
10	Does gait bout definition influence the ability to discriminate gait quality between people with and without multiple sclerosis during daily life?. <i>Gait and Posture</i> , 2021, 84, 108-113.	1.4	7
11	Cortical thickness as predictor of response to exercise in people with Parkinson's disease. <i>Human Brain Mapping</i> , 2021, 42, 139-153.	3.6	11
12	Measuring freezing of gait during daily-life: an open-source, wearable sensors approach. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2021, 18, 1.	4.6	131
13	Detection of Wandering Behaviors Using a Body-Worn Inertial Sensor in Patients With Cognitive Impairment: A Feasibility Study. <i>Frontiers in Neurology</i> , 2021, 12, 529661.	2.4	12
14	Poor sleep quality is associated with cognitive, mobility, and anxiety disability that underlie freezing of gait in Parkinson's disease. <i>Gait and Posture</i> , 2021, 85, 157-163.	1.4	9
15	Dual-Task Costs of Quantitative Gait Parameters While Walking and Turning in People with Parkinson's Disease: Beyond Gait Speed. <i>Journal of Parkinson's Disease</i> , 2021, 11, 653-664.	2.8	13
16	Changes in prefrontal cortical activity and turning in response to dopaminergic and cholinergic therapy in Parkinson's disease: A randomized cross-over trial. <i>Parkinsonism and Related Disorders</i> , 2021, 86, 10-14.	2.2	8
17	Functional limits of stability and standing balance in people with Parkinson's disease with and without freezing of gait using wearable sensors. <i>Gait and Posture</i> , 2021, 87, 123-129.	1.4	9
18	Impaired Weight-Shift Amplitude in People with Parkinson's Disease with Freezing of Gait. <i>Journal of Parkinson's Disease</i> , 2021, 11, 1367-1380.	2.8	6

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19	Effectiveness of the Mobility Rehab System for Mobility Training in Older Adults: A Pragmatic Clinical Trial. <i>Frontiers in Neurology</i> , 2021, 12, 680637.	2.4	2
20	Brain Activity Response to Visual Cues for Gait Impairment in Parkinson's Disease: An EEG Study. <i>Neurorehabilitation and Neural Repair</i> , 2021, 35, 996-1009.	2.9	20
21	Evaluation of movement and brain activity. <i>Clinical Neurophysiology</i> , 2021, 132, 2608-2638.	1.5	22
22	Relating Response Inhibition, Brain Connectivity, and Freezing of Gait in People with Parkinson's Disease. <i>Journal of the International Neuropsychological Society</i> , 2021, 27, 733-743.	1.8	1
23	Speeding Up Gait in Parkinson's Disease. <i>Journal of Parkinson's Disease</i> , 2020, 10, 245-253.	2.8	21
24	Why is balance so important in Parkinson disease?. , 2020, , 25-36.		0
25	How is balance during quiet stance affected by PD?. , 2020, , 37-61.		0
26	How are anticipatory postural adjustments in preparation for voluntary movements affected by PD?. , 2020, , 83-97.		0
27	How is dynamic balance during walking affected by PD?. , 2020, , 99-122.		0
28	How and why is turning affected by Parkinson disease?. , 2020, , 123-138.		0
29	Is freezing of gait a balance disorder?. , 2020, , 139-161.		0
30	Future perspectives on balance disorders in PD. , 2020, , 181-200.		0
31	The New Freezing of Gait Questionnaire: Unsuitable as an Outcome in Clinical Trials?. <i>Movement Disorders Clinical Practice</i> , 2020, 7, 199-205.	1.5	57
32	Prefrontal Cortical Activation With Open and Closed-Loop Tactile Cueing When Walking and Turning in Parkinson Disease: A Pilot Study. <i>Journal of Neurologic Physical Therapy</i> , 2020, 44, 121-131.	1.4	29
33	Responsiveness of Objective vs. Clinical Balance Domain Outcomes for Exercise Intervention in Parkinson's Disease. <i>Frontiers in Neurology</i> , 2020, 11, 940.	2.4	19
34	Laboratory versus daily life gait characteristics in patients with multiple sclerosis, Parkinson's disease, and matched controls. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2020, 17, 159.	4.6	38
35	Effects of the agility boot camp with cognitive challenge (ABC-C) exercise program for Parkinson's disease. <i>Npj Parkinson's Disease</i> , 2020, 6, 31.	5.3	25
36	Relating Parkinson freezing and balance domains: A structural equation modeling approach. <i>Parkinsonism and Related Disorders</i> , 2020, 79, 73-78.	2.2	15

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37	Prefrontal Cortex Activity and Gait in Parkinson's Disease With Cholinergic and Dopaminergic Therapy. <i>Movement Disorders</i> , 2020, 35, 2019-2027.	3.9	25
38	Effect of Bout Length on Gait Measures in People with and without Parkinson's Disease during Daily Life. <i>Sensors</i> , 2020, 20, 5769.	3.8	23
39	Executive Control of Walking in People With Parkinson's Disease With Freezing of Gait. <i>Neurorehabilitation and Neural Repair</i> , 2020, 34, 1138-1149.	2.9	24
40	Digital Biomarkers of Mobility in Parkinson's Disease During Daily Living. <i>Journal of Parkinson's Disease</i> , 2020, 10, 1099-1111.	2.8	40
41	The effect of tactile feedback on gait initiation in people with Parkinson's disease: A pilot study. <i>Gait and Posture</i> , 2020, 80, 240-245.	1.4	9
42	Phase-Dependent Effects of Closed-Loop Tactile Feedback on Gait Stability in Parkinson's Disease. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020, 28, 1636-1641.	4.9	8
43	Lateralized Connectivity between Globus Pallidus and Motor Cortex is Associated with Freezing of Gait in Parkinson's Disease. <i>Neuroscience</i> , 2020, 443, 44-58.	2.3	14
44	Wearable-based mobility monitoring: the long road ahead. <i>Lancet Neurology</i> , The, 2020, 19, 378-379.	10.2	20
45	Quantity and quality of gait and turning in people with multiple sclerosis, Parkinson's disease and matched controls during daily living. <i>Journal of Neurology</i> , 2020, 267, 1188-1196.	3.6	47
46	Cognitively Challenging Agility Boot Camp Program for Freezing of Gait in Parkinson Disease. <i>Neurorehabilitation and Neural Repair</i> , 2020, 34, 417-427.	2.9	38
47	Cognitive function in people with and without freezing of gait in Parkinson's disease. <i>Npj Parkinson's Disease</i> , 2020, 6, 9.	5.3	31
48	Differential effects of visual versus auditory biofeedback training for voluntary postural sway. <i>PLoS ONE</i> , 2020, 15, e0244583.	2.5	8
49	Differential effects of visual versus auditory biofeedback training for voluntary postural sway. , 2020, 15, e0244583.		0
50	Differential effects of visual versus auditory biofeedback training for voluntary postural sway. , 2020, 15, e0244583.		0
51	Differential effects of visual versus auditory biofeedback training for voluntary postural sway. , 2020, 15, e0244583.		0
52	Differential effects of visual versus auditory biofeedback training for voluntary postural sway. , 2020, 15, e0244583.		0
53	The Association between Prefrontal Cortex Activity and Turning Behavior in People with and without Freezing of Gait. <i>Neuroscience</i> , 2019, 416, 168-176.	2.3	33
54	How to Select Balance Measures Sensitive to Parkinson's Disease from Body-Worn Inertial Sensors—Separating the Trees from the Forest. <i>Sensors</i> , 2019, 19, 3320.	3.8	44

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55	Anticipatory postural adjustments are modulated by substantia nigra stimulation in people with Parkinson's disease and freezing of gait. <i>Parkinsonism and Related Disorders</i> , 2019, 66, 34-39.	2.2	17
56	Validity of Mobility Lab (version 2) for gait assessment in young adults, older adults and Parkinsonâ€™s disease. <i>Physiological Measurement</i> , 2019, 40, 095003.	2.1	122
57	Objective measures to investigate turning impairments and freezing of gait in people with Parkinsonâ€™s disease. <i>Gait and Posture</i> , 2019, 74, 187-193.	1.4	26
58	Effects of augmenting cholinergic neurotransmission on balance in Parkinson's disease. <i>Parkinsonism and Related Disorders</i> , 2019, 69, 40-47.	2.2	18
59	Pre-frontal Cortical Activity During Walking and Turning Is Reliable and Differentiates Across Young, Older Adults and People With Parkinson's Disease. <i>Frontiers in Neurology</i> , 2019, 10, 536.	2.4	47
60	Clinical and methodological challenges for assessing freezing of gait: Future perspectives. <i>Movement Disorders</i> , 2019, 34, 783-790.	3.9	97
61	Gait Parameters Estimated Using Inertial Measurement Units. , 2018, , 245-265.		5
62	Dysfunctional Limbic Circuitry Underlying Freezing of Gait in Parkinsonâ€™s Disease. <i>Neuroscience</i> , 2018, 374, 119-132.	2.3	91
63	Coherence analysis of trunk and leg acceleration reveals altered postural sway strategy during standing in persons with multiple sclerosis. <i>Human Movement Science</i> , 2018, 58, 330-336.	1.4	24
64	Cortical activity during walking and balance tasks in older adults and in people with Parkinsonâ€™s disease: A structured review. <i>Maturitas</i> , 2018, 113, 53-72.	2.4	115
65	The contribution of cochlear implants to postural stability. <i>Laryngoscope</i> , 2018, 128, 1676-1680.	2.0	21
66	The Impact Of Freezing Of Gait On Balance Perception And Mobility In Community-Living With Parkinsonâ€™s Disease. , 2018, 2018, 3040-3043.		10
67	Relating Anticipatory Postural Adjustments to Step Outcomes During Loss of Balance in People With Parkinsonâ€™s Disease. <i>Neurorehabilitation and Neural Repair</i> , 2018, 32, 887-898.	2.9	5
68	Parkinsonâ€™s disease does not alter automatic visual-motor coupling in postural control. <i>Neuroscience Letters</i> , 2018, 686, 47-52.	2.1	15
69	Assessment of the ability of open- and closed-loop cueing to improve turning and freezing in people with Parkinsonâ€™s disease. <i>Scientific Reports</i> , 2018, 8, 12773.	3.3	52
70	Are Hypometric Anticipatory Postural Adjustments Contributing to Freezing of Gait in Parkinsonâ€™s Disease?. <i>Frontiers in Aging Neuroscience</i> , 2018, 10, 36.	3.4	54
71	Day-to-Day Variability of Postural Sway and Its Association With Cognitive Function in Older Adults: A Pilot Study. <i>Frontiers in Aging Neuroscience</i> , 2018, 10, 126.	3.4	26
72	Turn Around Freezing: Community-Living Turning Behavior in People with Parkinsonâ€™s Disease. <i>Frontiers in Neurology</i> , 2018, 9, 18.	2.4	61

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73	Gait Stability Has Phase-Dependent Dual-Task Costs in Parkinson's Disease. <i>Frontiers in Neurology</i> , 2018, 9, 373.	2.4	26
74	Inertial Sensor-Based Assessment of Central Sensory Integration for Balance After Mild Traumatic Brain Injury. <i>Military Medicine</i> , 2018, 183, 327-332.	0.8	36
75	Anticipatory Postural Adjustment During Self-Initiated, Cued, and Compensatory Stepping in Healthy Older Adults and Patients With Parkinson Disease. <i>Archives of Physical Medicine and Rehabilitation</i> , 2017, 98, 1316-1324.e1.	0.9	39
76	Dual task interference on postural sway, postural transitions and gait in people with Parkinson's disease and freezing of gait. <i>Gait and Posture</i> , 2017, 56, 76-81.	1.4	104
77	The clinical significance of freezing while turning in Parkinson's disease. <i>Neuroscience</i> , 2017, 343, 222-228.	2.3	101
78	The effect of unilateral balance training on postural control of the contralateral limb. <i>Journal of Sports Sciences</i> , 2017, 35, 2265-2271.	2.0	12
79	Sensor-Based Balance Measures Outperform Modified Balance Error Scoring System in Identifying Acute Concussion. <i>Annals of Biomedical Engineering</i> , 2017, 45, 2135-2145.	2.5	79
80	Gait initiation is impaired in subjects with Parkinson's disease in the OFF state: Evidence from the analysis of the anticipatory postural adjustments through wearable inertial sensors. <i>Gait and Posture</i> , 2017, 51, 218-221.	1.4	23
81	An objective assessment to investigate the impact of turning angle on freezing of gait in Parkinson's disease. , 2017, , .		3
82	Investigation of Anticipatory Postural Adjustments during One-Leg Stance Using Inertial Sensors: Evidence from Subjects with Parkinsonism. <i>Frontiers in Neurology</i> , 2017, 8, 361.	2.4	22
83	Impaired perception of surface tilt in progressive supranuclear palsy. <i>PLoS ONE</i> , 2017, 12, e0173351.	2.5	19
84	Gait Parameters Estimated Using Inertial Measurement Units. , 2017, , 1-21.		3
85	Letter to the Editor: On "Advantages and disadvantages of stiffness instructions when studying postural control" by C.T. Bonnet: Comments on "Advantages and disadvantages of stiffness instructions when studying postural control". <i>Gait and Posture</i> , 2016, 46, 214.	1.4	0
86	Balance and Gait Represent Independent Domains of Mobility in Parkinson Disease. <i>Physical Therapy</i> , 2016, 96, 1364-1371.	2.4	77
87	Objective Gait and Balance Impairments Relate to Balance Confidence and Perceived Mobility in People With Parkinson Disease. <i>Physical Therapy</i> , 2016, 96, 1734-1743.	2.4	55
88	Quantifying effects of age on balance and gait with inertial sensors in community-dwelling healthy adults. <i>Experimental Gerontology</i> , 2016, 85, 48-58.	2.8	51
89	Alleviating freezing of gait using phase-dependent tactile biofeedback. , 2016, 2016, 5841-5844.		12
90	The quality of turning in Parkinson's disease: a compensatory strategy to prevent postural instability?. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2016, 13, 39.	4.6	107

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91	Freezing of gait associated with a corpus callosum lesion. Journal of Clinical Movement Disorders, 2016, 3, 2.	2.2	5
92	Continuous Monitoring of Turning Mobility and Its Association to Falls and Cognitive Function: A Pilot Study. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2016, 71, 1102-1108.	3.6	122
93	Potential of APDM mobility lab for the monitoring of the progression of Parkinson's disease. Expert Review of Medical Devices, 2016, 13, 455-462.	2.8	87
94	Effects of Levodopa on Postural Strategies in Parkinson's disease. Gait and Posture, 2016, 46, 26-29.	1.4	23
95	Validity and reliability of an IMU-based method to detect APAs prior to gait initiation. Gait and Posture, 2016, 43, 125-131.	1.4	81
96	Continuous monitoring of turning in Parkinson's disease: Rehabilitation potential. NeuroRehabilitation, 2015, 37, 3-10.	1.3	135
97	Effect of augmenting cholinergic function on gait and balance. BMC Neurology, 2015, 15, 264.	1.8	23
98	Levodopa as a double-edged sword for balance and gait in people with Parkinson's disease. Movement Disorders, 2015, 30, 1361-1370.	3.9	300
99	Role of Body-Worn Movement Monitor Technology for Balance and Gait Rehabilitation. Physical Therapy, 2015, 95, 461-470.	2.4	173
100	Dual-task interference and brain structural connectivity in people with Parkinson's disease who freeze. Journal of Neurology, Neurosurgery and Psychiatry, 2015, 86, 786-792.	1.9	70
101	Continuous Monitoring of Turning in Patients with Movement Disability. Sensors, 2014, 14, 356-369.	3.8	205
102	Validating and Calibrating the Nintendo Wii Balance Board to Derive Reliable Center of Pressure Measures. Sensors, 2014, 14, 18244-18267.	3.8	96
103	Postural strategies assessed with inertial sensors in healthy and parkinsonian subjects. Gait and Posture, 2014, 40, 70-75.	1.4	37
104	Body-worn sensors capture variability, but not decline, of gait and balance measures in multiple sclerosis over 18 months. Gait and Posture, 2014, 39, 958-964.	1.4	53
105	Instrumenting the Balance Error Scoring System for Use With Patients Reporting Persistent Balance Problems After Mild Traumatic Brain Injury. Archives of Physical Medicine and Rehabilitation, 2014, 95, 353-359.	0.9	127
106	Inhibition, Executive Function, and Freezing of Gait. Journal of Parkinson's Disease, 2014, 4, 111-122.	2.8	79
107	Functional Reorganization of the Locomotor Network in Parkinson Patients with Freezing of Gait. PLoS ONE, 2014, 9, e100291.	2.5	164
108	Framework for understanding balance dysfunction in Parkinson's disease. Movement Disorders, 2013, 28, 1474-1482.	3.9	172

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109	Objective biomarkers of balance and gait for Parkinson's disease using body-worn sensors. <i>Movement Disorders</i> , 2013, 28, 1544-1551.	3.9	196
110	Asymmetric pedunculo-pontine network connectivity in parkinsonian patients with freezing of gait. <i>Brain</i> , 2013, 136, 2405-2418.	7.6	213
111	Quantifying freezing of gait in Parkinson's disease during the instrumented timed up and go test. , 2012, 2012, 1198-201.		41
112	Do Clinical Scales of Balance Reflect Turning Abnormalities in People With Parkinson's Disease?. <i>Journal of Neurologic Physical Therapy</i> , 2012, 36, 25-31.	1.4	72
113	ISway: a sensitive, valid and reliable measure of postural control. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2012, 9, 59.	4.6	369
114	Postural sway as a marker of progression in Parkinson's disease: A pilot longitudinal study. <i>Gait and Posture</i> , 2012, 36, 471-476.	1.4	180
115	Impaired Trunk Stability in Individuals at High Risk for Parkinson's Disease. <i>PLoS ONE</i> , 2012, 7, e32240.	2.5	79
116	Trunk accelerometry reveals postural instability in untreated Parkinson's disease. <i>Parkinsonism and Related Disorders</i> , 2011, 17, 557-562.	2.2	230
117	Mobility Lab to Assess Balance and Gait with Synchronized Body-worn Sensors. <i>Journal of Bioengineering & Biomedical Science</i> , 2011, Suppl 1, 007.	0.2	151
118	Effects of Parkinson's disease and levodopa on functional limits of stability. <i>Clinical Biomechanics</i> , 2008, 23, 450-458.	1.2	109
119	Step initiation in Parkinson's disease: Influence of initial stance conditions. <i>Neuroscience Letters</i> , 2006, 406, 128-132.	2.1	132
120	Dependence of anticipatory postural adjustments for step initiation on task movement features: a study based on dynamometric and accelerometric data. , 2006, 2006, 1489-92.		15
121	Dependence of anticipatory postural adjustments for step initiation on task movement features: a study based on dynamometric and accelerometric data. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2006, , .	0.5	1