Martina Mancini

List of Publications by Year
in descending order

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	ISway: a sensitive, valid and reliable measure of postural control. Journal of NeuroEngineering and Rehabilitation, 2012, 9, 59.	4.6	369
2	Levodopa <scp>I</scp>s a <scp>D</scp>oubleâ€<scp>E</scp>dged <scp>S</scp>word for <scp>B</scp>alance and <scp>G</scp>ait in <scp>P</scp>eople <scp>W</scp>ith <scp>P</scp>arkinson's <scp>D</scp>isease. Movement Disorders, 2015, 30, 1361-1370.	3.9	300
3	Trunk accelerometry reveals postural instability in untreated Parkinsonâ€™s disease. Parkinsonism and Related Disorders, 2011, 17, 557-562.	2.2	230
4	Asymmetric pedunculopontine network connectivity in parkinsonian patients with freezing of gait. Brain, 2013, 136, 2405-2418.	7.6	213
5	Continuous Monitoring of Turning in Patients with Movement Disability. Sensors, 2014, 14, 356-369.	3.8	205
6	Objective biomarkers of balance and gait for Parkinson's disease using bodyâ€worn sensors. Movement Disorders, 2013, 28, 1544-1551.	3.9	196
7	Postural sway as a marker of progression in Parkinson's disease: A pilot longitudinal study. Gait and Posture, 2012, 36, 471-476.	1.4	180
8	Role of Body-Worn Movement Monitor Technology for Balance and Gait Rehabilitation. Physical Therapy, 2015, 95, 461-470.	2.4	173
9	Framework for understanding balance dysfunction in Parkinson's disease. Movement Disorders, 2013, 28, 1474-1482.	3.9	172
10	Functional Reorganization of the Locomotor Network in Parkinson Patients with Freezing of Gait. PLoS ONE, 2014, 9, e100291.	2.5	164
11	Mobility Lab to Assess Balance and Gait with Synchronized Body-worn Sensors. Journal of Bioengineering & Biomedical Science, 2011, Suppl 1, 007.	0.2	151
12	Continuous monitoring of turning in Parkinsonâ€™s disease: Rehabilitation potential. NeuroRehabilitation, 2015, 37, 3-10.	1.3	135
13	Step initiation in Parkinson's disease: Influence of initial stance conditions. Neuroscience Letters, 2006, 406, 128-132.	2.1	132
14	Measuring freezing of gait during daily-life: an open-source, wearable sensors approach. Journal of NeuroEngineering and Rehabilitation, 2021, 18, 1.	4.6	131
15	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
16	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
17	Validity of Mobility Lab (version 2) for gait assessment in young adults, older adults and Parkinsonâ€™s disease. Physiological Measurement, 2019, 40, 095003.	2.1	122
18	Cortical activity during walking and balance tasks in older adults and in people with Parkinsonâ€™s disease: A structured review. Maturitas, 2018, 113, 53-72.	2.4	115

#	Article	IF	Citations
19	Effects of Parkinsonâ€™s disease and levodopa on functional limits of stability. Clinical Biomechanics, 2008, 23, 450-458.	1.2	109
20	The quality of turning in Parkinsonâ€™s disease: a compensatory strategy to prevent postural instability?. Journal of NeuroEngineering and Rehabilitation, 2016, 13, 39.	4.6	107
21	Dual task interference on postural sway, postural transitions and gait in people with Parkinsonâ€™s disease and freezing of gait. Gait and Posture, 2017, 56, 76-81.	1.4	104
22	The clinical significance of freezing while turning in Parkinsonâ€™s disease. Neuroscience, 2017, 343, 222-228.	2.3	101
23	Clinical and methodological challenges for assessing freezing of gait: Future perspectives. Movement Disorders, 2019, 34, 783-790.	3.9	97
24	Validating and Calibrating the Nintendo Wii Balance Board to Derive Reliable Center of Pressure Measures. Sensors, 2014, 14, 18244-18267.	3.8	96
25	Dysfunctional Limbic Circuitry Underlying Freezing of Gait in Parkinsonâ€™s Disease. Neuroscience, 2018, 374, 119-132.	2.3	91
26	Potential of APDM mobility lab for the monitoring of the progression of Parkinsonâ€™s disease. Expert Review of Medical Devices, 2016, 13, 455-462.	2.8	87
27	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
28	Inhibition, Executive Function, and Freezing of Gait. Journal of Parkinson's Disease, 2014, 4, 111-122.	2.8	79
29	Sensor-Based Balance Measures Outperform Modified Balance Error Scoring System in Identifying Acute Concussion. Annals of Biomedical Engineering, 2017, 45, 2135-2145.	2.5	79
30	Impaired Trunk Stability in Individuals at High Risk for Parkinson's Disease. PLoS ONE, 2012, 7, e32240.	2.5	79
31	Balance and Gait Represent Independent Domains of Mobility in Parkinson Disease. Physical Therapy, 2016, 96, 1364-1371.	2.4	77
32	Do Clinical Scales of Balance Reflect Turning Abnormalities in People With Parkinson's Disease?. Journal of Neurologic Physical Therapy, 2012, 36, 25-31.	1.4	72
33	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
34	Turn Around Freezing: Community-Living Turning Behavior in People with Parkinsonâ€™s Disease. Frontiers in Neurology, 2018, 9, 18.	2.4	61
35	The New Freezing of Gait Questionnaire: Unsuitable as an Outcome in Clinical Trials?. Movement Disorders Clinical Practice, 2020, 7, 199-205.	1.5	57
36	Objective Gait and Balance Impairments Relate to Balance Confidence and Perceived Mobility in People With Parkinson Disease. Physical Therapy, 2016, 96, 1734-1743.	2.4	55

#	Article	IF	Citations
37	Are Hypometric Anticipatory Postural Adjustments Contributing to Freezing of Gait in Parkinsonâ€™s Disease?. Frontiers in Aging Neuroscience, 2018, 10, 36.	3.4	54
38	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
39	Assessment of the ability of open- and closed-loop cueing to improve turning and freezing in people with Parkinsonâ€™s disease. Scientific Reports, 2018, 8, 12773.	3.3	52
40	Quantifying effects of age on balance and gait with inertial sensors in community-dwelling healthy adults. Experimental Gerontology, 2016, 85, 48-58.	2.8	51
41	Pre-frontal Cortical Activity During Walking and Turning Is Reliable and Differentiates Across Young, Older Adults and People With Parkinson's Disease. Frontiers in Neurology, 2019, 10, 536.	2.4	47
42	Quantity and quality of gait and turning in people with multiple sclerosis, Parkinsonâ€™s disease and matched controls during daily living. Journal of Neurology, 2020, 267, 1188-1196.	3.6	47
43	How to Select Balance Measures Sensitive to Parkinsonâ€™s Disease from Body-Worn Inertial Sensorsâ€”Separating the Trees from the Forest. Sensors, 2019, 19, 3320.	3.8	44
44	Quantifying freezing of gait in Parkinson's disease during the instrumented timed up and go test. , 2012, 2012, 1198-201.		41
45	Digital Biomarkers of Mobility in Parkinsonâ€™s Disease During Daily Living. Journal of Parkinson's Disease, 2020, 10, 1099-1111.	2.8	40
46	Anticipatory Postural Adjustment During Self-Initiated, Cued, and Compensatory Stepping in Healthy Older Adults and Patients With Parkinson Disease. Archives of Physical Medicine and Rehabilitation, 2017, 98, 1316-1324.e1.	0.9	39
47	Laboratory versus daily life gait characteristics in patients with multiple sclerosis, Parkinsonâ€™s disease, and matched controls. Journal of NeuroEngineering and Rehabilitation, 2020, 17, 159.	4.6	38
48	Cognitively Challenging Agility Boot Camp Program for Freezing of Gait in Parkinson Disease. Neurorehabilitation and Neural Repair, 2020, 34, 417-427.	2.9	38
49	Postural strategies assessed with inertial sensors in healthy and parkinsonian subjects. Gait and Posture, 2014, 40, 70-75.	1.4	37
50	Inertial Sensor-Based Assessment of Central Sensory Integration for Balance After Mild Traumatic Brain Injury. Military Medicine, 2018, 183, 327-332.	0.8	36
51	The Association between Prefrontal Cortex Activity and Turning Behavior in People with and without Freezing of Gait. Neuroscience, 2019, 416, 168-176.	2.3	33
52	Cognitive function in people with and without freezing of gait in Parkinsonâ€™s disease. Npj Parkinson's Disease, 2020, 6, 9.	5.3	31
53	Prefrontal Cortical Activation With Open and Closed-Loop Tactile Cueing When Walking and Turning in Parkinson Disease: A Pilot Study. Journal of Neurologic Physical Therapy, 2020, 44, 121-131.	1.4	29
54	Day-to-Day Variability of Postural Sway and Its Association With Cognitive Function in Older Adults: A Pilot Study. Frontiers in Aging Neuroscience, 2018, 10, 126.	3.4	26

#	Article	IF	Citations
55	Gait Stability Has Phase-Dependent Dual-Task Costs in Parkinsonâ€™s Disease. Frontiers in Neurology, 2018, 9, 373.	2.4	26
56	Objective measures to investigate turning impairments and freezing of gait in people with Parkinsonâ€™s disease. Gait and Posture, 2019, 74, 187-193.	1.4	26
57	Effects of the agility boot camp with cognitive challenge (ABC-C) exercise program for Parkinsonâ€™s disease. Npj Parkinson's Disease, 2020, 6, 31.	5.3	25
58	Prefrontal Cortex Activity and Gait in Parkinson's Disease With Cholinergic and Dopaminergic Therapy. Movement Disorders, 2020, 35, 2019-2027.	3.9	25
59	Coherence analysis of trunk and leg acceleration reveals altered postural sway strategy during standing in persons with multiple sclerosis. Human Movement Science, 2018, 58, 330-336.	1.4	24
60	Executive Control of Walking in People With Parkinsonâ€™s Disease With Freezing of Gait. Neurorehabilitation and Neural Repair, 2020, 34, 1138-1149.	2.9	24
61	Effect of augmenting cholinergic function on gait and balance. BMC Neurology, 2015, 15, 264.	1.8	23
62	Effects of Levodopa on Postural Strategies in Parkinson's disease. Gait and Posture, 2016, 46, 26-29.	1.4	23
63	Gait initiation is impaired in subjects with Parkinsonâ€™s disease in the OFF state: Evidence from the analysis of the anticipatory postural adjustments through wearable inertial sensors. Gait and Posture, 2017, 51, 218-221.	1.4	23
64	Effect of Bout Length on Gait Measures in People with and without Parkinsonâ€™s Disease during Daily Life. Sensors, 2020, 20, 5769.	3.8	23
65	Investigation of Anticipatory Postural Adjustments during One-Leg Stance Using Inertial Sensors: Evidence from Subjects with Parkinsonism. Frontiers in Neurology, 2017, 8, 361.	2.4	22
66	Evaluation of movement and brain activity. Clinical Neurophysiology, 2021, 132, 2608-2638.	1.5	22
67	The contribution of cochlear implants to postural stability. Laryngoscope, 2018, 128, 1676-1680.	2.0	21
68	Speeding Up Gait in Parkinsonâ€™s Disease. Journal of Parkinson's Disease, 2020, 10, 245-253.	2.8	21
69	Wearable-based mobility monitoring: the long road ahead. Lancet Neurology, The, 2020, 19, 378-379.	10.2	20
70	Brain Activity Response to Visual Cues for Gait Impairment in Parkinsonâ€™s Disease: An EEG Study. Neurorehabilitation and Neural Repair, 2021, 35, 996-1009.	2.9	20
71	Impaired perception of surface tilt in progressive supranuclear palsy. PLoS ONE, 2017, 12, e0173351.	2.5	19
72	Responsiveness of Objective vs. Clinical Balance Domain Outcomes for Exercise Intervention in Parkinson's Disease. Frontiers in Neurology, 2020, 11, 940.	2.4	19

#	Article	IF	Citations
73	Effects of augmenting cholinergic neurotransmission on balance in Parkinson's disease. Parkinsonism and Related Disorders, 2019, 69, 40-47.	2.2	18
74	Anticipatory postural adjustments are modulated by substantia nigra stimulation in people with Parkinson's disease and freezing of gait. Parkinsonism and Related Disorders, 2019, 66, 34-39.	2.2	17
75	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
76	Parkinsonâ€™s disease does not alter automatic visual-motor coupling in postural control. Neuroscience Letters, 2018, 686, 47-52.	2.1	15
77	Relating Parkinson freezing and balance domains: A structural equation modeling approach. Parkinsonism and Related Disorders, 2020, 79, 73-78.	2.2	15
78	Lateralized Connectivity between Globus Pallidus and Motor Cortex is Associated with Freezing of Gait in Parkinsonâ€™s Disease. Neuroscience, 2020, 443, 44-58.	2.3	14
79	Dual-Task Costs of Quantitative Gait Parameters While Walking and Turning in People with Parkinsonâ€™s Disease: Beyond Gait Speed. Journal of Parkinson's Disease, 2021, 11, 653-664.	2.8	13
80	Alleviating freezing of gait using phase-dependent tactile biofeedback. , 2016, 2016, 5841-5844.		12
81	The effect of unilateral balance training on postural control of the contralateral limb. Journal of Sports Sciences, 2017, 35, 2265-2271.	2.0	12
82	Detection of Wandering Behaviors Using a Body-Worn Inertial Sensor in Patients With Cognitive Impairment: A Feasibility Study. Frontiers in Neurology, 2021, 12, 529661.	2.4	12
83	Cortical thickness as predictor of response to exercise in people with Parkinson's disease. Human Brain Mapping, 2021, 42, 139-153.	3.6	11
84	The Impact Of Freezing Of Gait On Balance Perception And Mobility In Community-Living With Parkinsonâ€™S Disease. , 2018, 2018, 3040-3043.		10
85	Surrogates for rigidity and PIGD MDS-UPDRS subscores using wearable sensors. Gait and Posture, 2022, 91, 186-191.	1.4	10
86	The effect of tactile feedback on gait initiation in people with Parkinson's disease: A pilot study. Gait and Posture, 2020, 80, 240-245.	1.4	9
87	Poor sleep quality is associated with cognitive, mobility, and anxiety disability that underlie freezing of gait in Parkinsonâ€™s disease. Gait and Posture, 2021, 85, 157-163.	1.4	9
88	Functional limits of stability and standing balance in people with Parkinsonâ€™s disease with and without freezing of gait using wearable sensors. Gait and Posture, 2021, 87, 123-129.	1.4	9
89	Phase-Dependent Effects of Closed-Loop Tactile Feedback on Gait Stability in Parkinsonâ€™s Disease. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 1636-1641.	4.9	8
90	Changes in prefrontal cortical activity and turning in response to dopaminergic and cholinergic therapy in Parkinson's disease: A randomized cross-over trial. Parkinsonism and Related Disorders, 2021, 86, 10-14.	2.2	8

#	Article	IF	Citations
91	Differential effects of visual versus auditory biofeedback training for voluntary postural sway. PLoS ONE, 2020, 15, e0244583.	2.5	8
92	Inertial Sensor Algorithm to Estimate Walk Distance. Sensors, 2022, 22, 1077.	3.8	8
93	Does gait bout definition influence the ability to discriminate gait quality between people with and without multiple sclerosis during daily life?. Gait and Posture, 2021, 84, 108-113.	1.4	7
94	Does visual cueing improve gait initiation in people with Parkinson's disease?. Human Movement Science, 2022, 84, 102970.	1.4	7
95	Resting state functional networks predict different aspects of postural control in Parkinsonâ€™s disease. Gait and Posture, 2022, 97, 122-129.	1.4	7
96	Impaired Weight-Shift Amplitude in People with Parkinsonâ€™s Disease with Freezing of Gait. Journal of Parkinson's Disease, 2021, 11, 1367-1380.	2.8	6
97	Freezing of gait associated with a corpus callosum lesion. Journal of Clinical Movement Disorders, 2016, 3, 2.	2.2	5
98	Gait Parameters Estimated Using Inertial Measurement Units. , 2018, , 245-265.		5
99	Relating Anticipatory Postural Adjustments to Step Outcomes During Loss of Balance in People With Parkinsonâ€™s Disease. Neurorehabilitation and Neural Repair, 2018, 32, 887-898.	2.9	5
100	Relationship Between Brain Volumes and Objective Balance and Gait Measures in Parkinsonâ€™s Disease. Journal of Parkinson's Disease, 2022, 12, 283-294.	2.8	5
101	Inertial Sensor Algorithms to Characterize Turning in Neurological Patients With Turn Hesitations. IEEE Transactions on Biomedical Engineering, 2021, 68, 2615-2625.	4.2	4
102	Perspective: Balance Assessments in Progressive Supranuclear Palsy: Lessons Learned. Frontiers in Neurology, 2022, 13, 801291.	2.4	4
103	An objective assessment to investigate the impact of turning angle on freezing of gait in Parkinson's disease. , 2017, , .		3
104	Staying UpRight in Parkinsonâ€™s disease: A pilot study of a novel wearable postural intervention. Gait and Posture, 2022, 91, 86-93.	1.4	3
105	Gait Parameters Estimated Using Inertial Measurement Units. , 2017, , 1-21.		3
106	Effectiveness of the Mobility Rehab System for Mobility Training in Older Adults: A Pragmatic Clinical Trial. Frontiers in Neurology, 2021, 12, 680637.	2.4	2
107	Relating Response Inhibition, Brain Connectivity, and Freezing of Gait in People with Parkinsonâ€™s Disease. Journal of the International Neuropsychological Society, 2021, 27, 733-743.	1.8	1
108	Dependence of anticipatory postural adjustments for step initiation on task movement features: a study based on dynamometric and accelerometric data. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	1

#	Article	IF	Citations
109	Letter to the Editor: On â€œAdvantages and disadvantages of stiffness instructions when studying postural controlâ€•by C.T. Bonnet: Comments on â€œAdvantages and disadvantages of stiffness instructions when studying postural controlâ€• Gait and Posture, 2016, 46, 214.	1.4	0
110	Why is balance so important in Parkinson disease?. , 2020, , 25-36.		0
111	How is balance during quiet stance affected by PD?. , 2020, , 37-61.		0
112	How are anticipatory postural adjustments in preparation for voluntary movements affected by PD?. , 2020, , 83-97.		0
113	How is dynamic balance during walking affected by PD?. , 2020, , 99-122.		0
114	How and why is turning affected by Parkinson disease?. , 2020, , 123-138.		0
115	Is freezing of gait a balance disorder?. , 2020, , 139-161.		0
116	Future perspectives on balance disorders in PD. , 2020, , 181-200.		0
117	Editorial: Cross-Disciplinary Approaches to Characterize Gait and Posture Disturbances in Aging and Related Diseases. Frontiers in Bioengineering and Biotechnology, 2022, 10, 888910.	4.1	0
118	Differential effects of visual versus auditory biofeedback training for voluntary postural sway. , 2020, 15, e0244583.		0
119	Differential effects of visual versus auditory biofeedback training for voluntary postural sway. , 2020, 15, e0244583.		0
120	Differential effects of visual versus auditory biofeedback training for voluntary postural sway. , 2020, 15, e0244583.		0
121	Differential effects of visual versus auditory biofeedback training for voluntary postural sway. , 2020, 15, e0244583.		0