Meir Plotnik

List of Publications by Year in descending order

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64 papers	3,324 citations	201385 27 h-index	168136 53 g-index
73 all docs	73 docs citations	73 times ranked	3442 citing authors

#	Article	IF	Citations
1	Wearable Assistant for Parkinsonâ€™s Disease Patients With the Freezing of Gait Symptom. IEEE Transactions on Information Technology in Biomedicine, 2010, 14, 436-446.	3.6	504
2	Gait asymmetry in patients with Parkinsonâ€™s disease and elderly fallers: when does the bilateral coordination of gait require attention?. Experimental Brain Research, 2007, 177, 336-346.	0.7	302
3	Is freezing of gait in Parkinson's disease related to asymmetric motor function?. Annals of Neurology, 2005, 57, 656-663.	2.8	289
4	A new measure for quantifying the bilateral coordination of human gait: effects of aging and Parkinsonâ€™s disease. Experimental Brain Research, 2007, 181, 561-570.	0.7	270
5	Advantages of virtual reality in the rehabilitation of balance and gait. Neurology, 2018, 90, 1017-1025.	1.5	199
6	Bilateral coordination of walking and freezing of gait in Parkinsonâ€™s disease. European Journal of Neuroscience, 2008, 27, 1999-2006.	1.2	176
7	The role of gait rhythmicity and bilateral coordination of stepping in the pathophysiology of freezing of gait in Parkinson's disease. Movement Disorders, 2008, 23, S444-S450.	2.2	149
8	Postural instability and fall risk in Parkinsonâ€™s disease: impaired dual tasking, pacing, and bilateral coordination of gait during the â€œONâ€•medication state. Experimental Brain Research, 2011, 210, 529-538.	0.7	125
9	Effects of cognitive function on gait and dual tasking abilities in patients with Parkinsonâ€™s disease suffering from motor response fluctuations. Experimental Brain Research, 2011, 208, 169-179.	0.7	113
10	Effects of walking speed on asymmetry and bilateral coordination of gait. Gait and Posture, 2013, 38, 864-869.	0.6	83
11	Fluctuation and synchronization of gait intervals and gait force profiles distinguish stages of Parkinson's disease. Physica A: Statistical Mechanics and Its Applications, 2007, 383, 455-465.	1.2	77
12	Self-selected gait speed - over ground versus self-paced treadmill walking, a solution for a paradox. Journal of NeuroEngineering and Rehabilitation, 2015, 12, 20.	2.4	77
13	Is Freezing of Gait in Parkinson's Disease a Result of Multiple Gait Impairments? Implications for Treatment. Parkinson's Disease, 2012, 2012, 1-8.	0.6	70
14	Virtual realityâ€based cognitiveâ€motor training for middleâ€aged adults at high Alzheimer's disease risk: A randomized controlled trial. Alzheimer's and Dementia: Translational Research and Clinical Interventions, 2018, 4, 118-129.	1.8	67
15	Effects of Aging on Arm Swing during Gait: The Role of Gait Speed and Dual Tasking. PLoS ONE, 2015, 10, e0136043.	1.1	63
16	Evidence for a relationship between bilateral coordination during complex gait tasks and freezing of gait in Parkinson's disease. Parkinsonism and Related Disorders, 2012, 18, 1022-1026.	1.1	59
17	Fall incidence and associated risk factors among people with a lower limb amputation during various stages of recovery â€“ a systematic review. Disability and Rehabilitation, 2019, 41, 1778-1787.	0.9	51
18	Advanced virtual reality-based rehabilitation of balance and gait in clinical practice. Therapeutic Advances in Chronic Disease, 2019, 10, 204062231986837.	1.1	50

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19	Heart rate changes during freezing of gait in patients with Parkinson's disease. Movement Disorders, 2010, 25, 2346-2354.	2.2	45
20	Split-belt locomotion in Parkinson's disease links asymmetry, dyscoordination and sequence effect. Gait and Posture, 2016, 48, 6-12.	0.6	41
21	Markedly impaired bilateral coordination of gait in post-stroke patients: Is this deficit distinct from asymmetry? A cohort study. Journal of NeuroEngineering and Rehabilitation, 2011, 8, 23.	2.4	40
22	A motor learning-based intervention to ameliorate freezing of gait in subjects with Parkinsonâ€™s disease. Journal of Neurology, 2014, 261, 1329-1339.	1.8	37
23	Performance-based approach for movement artifact removal from electroencephalographic data recorded during locomotion. PLoS ONE, 2018, 13, e0197153.	1.1	37
24	The effect of uphill and downhill walking on gait parameters: A self-paced treadmill study. Journal of Biomechanics, 2017, 60, 142-149.	0.9	36
25	A Real-Time Kinect Signature-Based Patient Home Monitoring System. Sensors, 2016, 16, 1965.	2.1	32
26	Gait asymmetry, and bilateral coordination of gait during a six-minute walk test in persons with multiple sclerosis. Scientific Reports, 2020, 10, 12382.	1.6	31
27	Mental and Motor Switching in Parkinson's Disease. Journal of Motor Behavior, 2001, 33, 377-385.	0.5	29
28	Micrographia, much beyond the writer's hand. Parkinsonism and Related Disorders, 2016, 26, 1-9.	1.1	28
29	How many strides are required for a reliable estimation of temporal gait parameters? Implementation of a new algorithm on the phase coordination index. PLoS ONE, 2018, 13, e0192049.	1.1	28
30	Connectivity of EEG synchronization networks increases for Parkinsonâ€™s disease patients with freezing of gait. Communications Biology, 2021, 4, 1017.	2.0	24
31	Coupling Between Leg Muscle Activation and EEG During Normal Walking, Intentional Stops, and Freezing of Gait in Parkinson's Disease. Frontiers in Physiology, 2019, 10, 870.	1.3	23
32	Excessive phase synchronization in cortical activation during locomotion in persons with Parkinson's disease. Parkinsonism and Related Disorders, 2019, 65, 210-216.	1.1	18
33	Split-arm swinging: the effect of arm swinging manipulation on interlimb coordination during walking. Journal of Neurophysiology, 2017, 118, 1021-1033.	0.9	13
34	Seeing Gravity: Gait Adaptations to Visual and Physical Inclines â€“ A Virtual Reality Study. Frontiers in Neuroscience, 2019, 13, 1308.	1.4	13
35	A multimodal dataset for authoring and editing multimedia content: The MAMEM project. Data in Brief, 2017, 15, 1048-1056.	0.5	12
36	Novel methodology for assessing total recovery time in response to unexpected perturbations while walking. PLoS ONE, 2020, 15, e0233510.	1.1	12

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37	Multimodal immersive trail making-virtual reality paradigm to study cognitive-motor interactions. Journal of NeuroEngineering and Rehabilitation, 2021, 18, 82.	2.4	11
38	Deterioration in Motor Function Over Time in Older Adults With Type 2 Diabetes is Associated with Accelerated Cognitive Decline. Endocrine Practice, 2020, 26, 1143-1152.	1.1	11
39	Let the games begin: Serious games in prevention and rehabilitation to improve outcomes in patients with cardiovascular disease. European Journal of Cardiovascular Nursing, 2020, 19, 558-560.	0.4	9
40	Patterns of whole-body muscle activations following vertical perturbations during standing and walking. Journal of NeuroEngineering and Rehabilitation, 2021, 18, 75.	2.4	8
41	Muscle activation profile is modulated by unexpected balance loss in walking. Gait and Posture, 2022, 93, 64-72.	0.6	7
42	The Efficacy of a Virtual Reality Exposure Therapy Treatment for Fear of Flying: A Retrospective Study. Frontiers in Psychology, 2021, 12, 641393.	1.1	6
43	Neurologic aspects and falls. Clinical Cases in Mineral and Bone Metabolism, 2012, 9, 17-20.	1.0	5
44	Can we climb with our eyes? Preliminary report on the effect of conflicting virtual scenery on leveled and inclined gait. , 2013, , .		4
45	Cognitive-motor interaction during virtual reality trail making. , 2019, , .		4
46	Vision Affects Gait Speed but not Patterns of Muscle Activation During Inclined Walkingâ€"A Virtual Reality Study. Frontiers in Bioengineering and Biotechnology, 2021, 9, 632594.	2.0	4
47	Age related changes in gait variability, asymmetry, and bilateral coordination â€" When does deterioration starts?. Gait and Posture, 2022, 96, 87-92.	0.6	4
48	Wheeled assistive device for load carriage â€" the effects on human gait and biomechanics. Ergonomics, 2017, 60, 1415-1424.	1.1	3
49	[P2â€"040]: VIRTUAL REALITYâ€BASED COGNITIVEâ€MOTOR TRAINING FOR MIDDLEâ€AGED ADULTS AT HIGH AD RISK: STUDY DESIGN AND BASELINE CHARACTERISTICS FROM A RANDOMIZED CONTROLLED TRIAL. Alzheimer's and Dementia, 2017, 13, P619.	0.4	3
50	Detecting Freezing of Gait with Earables Trained from VR Motion Capture Data. , 2021, , .		3
51	Responses to balance challenges in persons with panic disorder: A pilot study of computerized static and dynamic balance measurements. Brain and Behavior, 2022, 12, e2411.	1.0	3
52	Dopaminergic medication reduces interhemispheric hyper-synchronization in Parkinson's disease. Parkinsonism and Related Disorders, 2022, 97, 39-46.	1.1	3
53	The trail less traveled: Analytical approach for creating shortened versions for virtual reality-based color trails test. Applied Neuropsychology Adult, 2022, , 1-10.	0.7	3
54	Voluntary step execution in patients with knee osteoarthritis: Symptomatic vs. non-symptomatic legs. Gait and Posture, 2021, 83, 60-66.	0.6	2

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55	Towards a real time kinect signature based human activity assessment at home. , 2015, , .		1
56	Identification of clinically related requirements of a novel assistive device for people with a high spinal cord injury. PLoS ONE, 2019, 14, e0218393.	1.1	1
57	Using the loading response peak for defining gait cycle timing: A novel solution for the double-belt problem. Journal of Biomechanics, 2020, 110, 109963.	0.9	1
58	Gait Speed Modulations Are Proportional to Grades of Virtual Visual Slopesâ€"A Virtual Reality Study. Frontiers in Neurology, 2021, 12, 615242.	1.1	1
59	Adaptation of bilateral coordination of gait during split belt walking as reflected by the phase coordination index. Gait and Posture, 2021, 89, 220-223.	0.6	1
60	Developing and Validating Virtual Reality Tool for the Evaluation of Cognitive and Physical Performance During Simulated lengthy field March. , 2019, , .		0
61	Title is missing!. , 2020, 15, e0233510.		0
62	Title is missing!. , 2020, 15, e0233510.		0
63	Title is missing!. , 2020, 15, e0233510.		0
64	Title is missing!. , 2020, 15, e0233510.		0