

Gait dynamics in Parkinson's disease: Common and d gait variability, and fractal-like scaling

Chaos

19, 026113

DOI: 10.1063/1.3147408

Citation Report

#	ARTICLE	IF	CITATIONS
1	Determinants of disability and quality of life in mild to moderate Parkinson disease. <i>Neurology</i> , 2008, 70, 2241-2247.	1.5	302
2	Understanding the complexity of human gait dynamics. <i>Chaos</i> , 2009, 19, 026108.	1.0	96
3	Maneuvers during legged locomotion. <i>Chaos</i> , 2009, 19, 026105.	1.0	44
4	Introduction to Focus Issue: Bipedal Locomotionâ€™From Robots to Humans. <i>Chaos</i> , 2009, 19, 026101.	1.0	8
5	Levodopa influences the regularity of the ankle joint kinematics in individuals with Parkinsonâ€™s disease. <i>Journal of Computational Neuroscience</i> , 2010, 28, 131-136.	0.6	24
6	Fractals for physicians. <i>Paediatric Respiratory Reviews</i> , 2010, 11, 123-131.	1.2	33
7	Re-interpreting detrended fluctuation analyses of stride-to-stride variability in human walking. <i>Gait and Posture</i> , 2010, 32, 348-353.	0.6	145
8	Using a parameter of black box model for gait as a criterion to differentiate between parkinson disease & healthy states. , 2010, , .		1
9	Relationship between fractal property of gait cycle and severity of Parkinson's disease. , 2011, , .		6
10	Interpersonal synchrony-based dynamic stabilization in walking rhythm of Parkinson's disease. , 2011, , .		4
11	Real-time gait cycle parameters recognition using a wearable motion detector. , 2011, , .		10
12	Toward Automated, At-Home Assessment of Mobility Among Patients With Parkinson Disease, Using a Body-Worn Accelerometer. <i>Neurorehabilitation and Neural Repair</i> , 2011, 25, 810-818.	1.4	164
13	Levodopa effect on electromyographic activation patterns of tibialis anterior muscle during walking in Parkinson's disease. <i>Gait and Posture</i> , 2011, 33, 436-441.	0.6	28
14	Balance and Gait Rehabilitation in Patients with Parkinsonâ€™s Disease. , 2011, , .		5
15	Parkinsonâ€™s Disease Influences the Structural Variations Present in the Leg Swing Kinematics. <i>Motor Control</i> , 2011, 15, 359-375.	0.3	10
16	Human movement variability, nonlinear dynamics, and pathology: Is there a connection?. <i>Human Movement Science</i> , 2011, 30, 869-888.	0.6	700
17	Long-range correlation properties in motor timing are individual and task specific. <i>Psychonomic Bulletin and Review</i> , 2011, 18, 339-346.	1.4	33
18	Effects of cognitive function on gait and dual tasking abilities in patients with Parkinsonâ€™s disease suffering from motor response fluctuations. <i>Experimental Brain Research</i> , 2011, 208, 169-179.	0.7	113

#	ARTICLE	IF	CITATIONS
19	Postural instability and fall risk in Parkinson's disease: impaired dual tasking, pacing, and bilateral coordination of gait during the "ON" medication state. <i>Experimental Brain Research</i> , 2011, 210, 529-538.	0.7	125
20	Fractal dimension approach in postural control of subjects with Prader-Willi Syndrome. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2011, 8, 45.	2.4	23
21	Profiling changes in gait dynamics resulting from progressive 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine-induced nigrostriatal lesioning. <i>Journal of Neuroscience Research</i> , 2011, 89, 1698-1706.	1.3	32
22	Gait alterations in healthy carriers of the LRRK2 G2019S mutation. <i>Annals of Neurology</i> , 2011, 69, 193-197.	2.8	140
23	Effects of a Flexibility and Relaxation Programme, Walking, and Nordic Walking on Parkinson's Disease. <i>Journal of Aging Research</i> , 2011, 2011, 1-18.	0.4	129
24	A point process approach for analyzing gait variability dynamics. , 2011, 2011, 1648-51.		2
25	Real-Time Gait Cycle Parameter Recognition Using a Wearable Accelerometry System. <i>Sensors</i> , 2011, 11, 7314-7326.	2.1	102
26	Wireless gait event detection system based on single gyroscope. , 2012, , .		5
27	Improving gait performance in Parkinson's disease by interpersonal synchrony-based dynamic stabilization. , 2012, , .		0
28	Combined analysis of sensor data from hand and gait motor function improves automatic recognition of Parkinson's disease. , 2012, 2012, 5122-5.		28
29	Evaluation of severity of Parkinson's disease using stride interval variability. , 2012, , .		3
30	Home-based treadmill training for individuals with Parkinson's disease: a randomized controlled pilot trial. <i>Clinical Rehabilitation</i> , 2012, 26, 817-826.	1.0	80
31	Gait Variability Measures Reveal Differences Between Multiple Sclerosis Patients and Healthy Controls. <i>Motor Control</i> , 2012, 16, 229-244.	0.3	89
32	Augmented Feedback Using Visual Cues for Movement Smoothness during Gait Performance of Individuals with Parkinson's Disease. <i>Journal of Physical Therapy Science</i> , 2012, 24, 553-556.	0.2	9
33	Effect of interpersonal synchrony on gait fluctuation characteristics: An analysis of synchronization gait assist system. , 2012, , .		1
34	Effects of age and walking speed on long-range autocorrelations and fluctuation magnitude of stride duration. <i>Neuroscience</i> , 2012, 210, 234-242.	1.1	27
35	Effects of explicit prioritization on dual task walking in patients with Parkinson's disease. <i>Gait and Posture</i> , 2012, 35, 641-646.	0.6	62
36	Nonlinear Analysis of Human Gait Signals. <i>International Journal of Information Engineering and Electronic Business</i> , 2012, 4, 15-21.	1.0	12

#	ARTICLE	IF	CITATIONS
37	Spatiotemporal variability during gait initiation in Parkinson's disease. <i>Gait and Posture</i> , 2012, 36, 340-343.	0.6	53
38	Stride-time variability and sensorimotor cortical activation during walking. <i>NeuroImage</i> , 2012, 59, 1602-1607.	2.1	136
39	Impaired Economy of Gait and Decreased Six-Minute Walk Distance in Parkinson's Disease. <i>Parkinson's Disease</i> , 2012, 2012, 1-6.	0.6	25
40	Improved Dynamic Postural Task Performance without Improvements in Postural Responses: The Blessing and the Curse of Dopamine Replacement. <i>Parkinson's Disease</i> , 2012, 2012, 1-8.	0.6	12
41	Fractal Fluctuations and Complexity: Current Debates and Future Challenges. <i>Critical Reviews in Biomedical Engineering</i> , 2012, 40, 485-500.	0.5	57
42	Pedaling time variability is increased in dropped riding position. <i>European Journal of Applied Physiology</i> , 2012, 112, 3161-3165.	1.2	32
43	Do the chaotic features of gait change in Parkinson's disease?. <i>Journal of Theoretical Biology</i> , 2012, 307, 160-167.	0.8	22
44	Locomotion speed determines gait variability in cerebellar ataxia and vestibular failure. <i>Movement Disorders</i> , 2012, 27, 125-131.	2.2	150
45	Intranasal and Subcutaneous Administration of Dopamine D3 Receptor Agonists Functionally Restores Nigrostriatal Dopamine in MPTP-Treated Mice. <i>Neurotoxicity Research</i> , 2013, 24, 523-531.	1.3	20
46	Footfall Placement Variability and Falls in Multiple Sclerosis. <i>Annals of Biomedical Engineering</i> , 2013, 41, 1740-1747.	1.3	32
47	Analysis for the Gait Patterns of Healthy Subjects During March. <i>Procedia Computer Science</i> , 2013, 24, 167-174.	1.2	1
48	Emerging therapies for gait disability and balance impairment: Promises and pitfalls. <i>Movement Disorders</i> , 2013, 28, 1576-1586.	2.2	50
49	Persons with Parkinson's disease exhibit decreased neuromuscular complexity during gait. <i>Clinical Neurophysiology</i> , 2013, 124, 1390-1397.	0.7	100
50	Fall risk and gait in Parkinson's disease: The role of the LRRK2 G2019S mutation. <i>Movement Disorders</i> , 2013, 28, 1683-1690.	2.2	82
51	Insights into gait disorders: Walking variability using phase plot analysis, Parkinson's disease. <i>Gait and Posture</i> , 2013, 38, 648-652.	0.6	30
52	Dynamic stability of running: The effects of speed and leg amputations on the maximal Lyapunov exponent. <i>Chaos</i> , 2013, 23, 043131.	1.0	22
53	Degeneracy and long-range correlations. <i>Chaos</i> , 2013, 23, 043109.	1.0	23
54	A systems biology approach to studying Tai Chi, physiological complexity and healthy aging: Design and rationale of a pragmatic randomized controlled trial. <i>Contemporary Clinical Trials</i> , 2013, 34, 21-34.	0.8	58

#	ARTICLE	IF	CITATIONS
55	Sensorimotor synchronization: A review of recent research (2006–2012). <i>Psychonomic Bulletin and Review</i> , 2013, 20, 403-452.	1.4	782
56	Ambulation and Parkinson Disease. <i>Physical Medicine and Rehabilitation Clinics of North America</i> , 2013, 24, 371-392.	0.7	19
57	Objective biomarkers of balance and gait for Parkinson's disease using body-worn sensors. <i>Movement Disorders</i> , 2013, 28, 1544-1551.	2.2	196
58	Variability of peak shoulder force during wheelchair propulsion in manual wheelchair users with and without shoulder pain. <i>Clinical Biomechanics</i> , 2013, 28, 967-972.	0.5	35
59	Training to walk amid uncertainty with Re-Step: measurements and changes with perturbation training for hemiparesis and cerebral palsy. <i>Disability and Rehabilitation: Assistive Technology</i> , 2013, 8, 417-425.	1.3	17
60	Dynamic systems approaches and levels of analysis in the nervous system. <i>Frontiers in Physiology</i> , 2013, 4, 15.	1.3	15
61	Non-Linear Dynamics in Parkinsonism. <i>Frontiers in Neurology</i> , 2013, 4, 211.	1.1	21
62	Walking Economy During Cued versus Non-Cued Treadmill Walking in Persons with Parkinson's Disease. <i>Journal of Parkinson's Disease</i> , 2013, 3, 609-619.	1.5	7
63	Moving forward on gait measurement: Toward a more refined approach. <i>Movement Disorders</i> , 2013, 28, 1534-1543.	2.2	226
64	Cognitive contributions to gait and falls: Evidence and implications. <i>Movement Disorders</i> , 2013, 28, 1520-1533.	2.2	390
65	Interactive Rhythmic Cue Facilitates Gait Relearning in Patients with Parkinson's Disease. <i>PLoS ONE</i> , 2013, 8, e72176.	1.1	42
66	The rates of change of the stochastic trajectories of acceleration variability are a good predictor of normal aging and of the stage of Parkinson's disease. <i>Frontiers in Integrative Neuroscience</i> , 2013, 7, 50.	1.0	20
67	Detrended Fluctuation Analysis and Adaptive Fractal Analysis of Stride Time Data in Parkinson's Disease: Stitching Together Short Gait Trials. <i>PLoS ONE</i> , 2014, 9, e85787.	1.1	63
68	Objective Assessment of Fall Risk in Parkinson's Disease Using a Body-Fixed Sensor Worn for 3 Days. <i>PLoS ONE</i> , 2014, 9, e96675.	1.1	181
69	Long-range correlation properties in timing of skilled piano performance: the influence of auditory feedback and deep brain stimulation. <i>Frontiers in Psychology</i> , 2014, 5, 1030.	1.1	15
70	Quantification of gait changes in subjects with visual height intolerance when exposed to heights. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 963.	1.0	30
71	ASSESSING ABNORMAL GAITS OF PARKINSON'S DISEASE PATIENTS USING A WEARABLE MOTION DETECTOR. <i>Biomedical Engineering - Applications, Basis and Communications</i> , 2014, 26, 1450031.	0.3	2
72	Gait in amyotrophic lateral sclerosis: Is gait pattern differently affected in spinal and bulbar onset of the disease during dual task walking?. <i>Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration</i> , 2014, 15, 488-493.	1.1	31

#	ARTICLE	IF	CITATIONS
73	Neural signatures of team coordination are revealed by multifractal analysis. <i>Social Neuroscience</i> , 2014, 9, 219-234.	0.7	63
74	Validating an iOS-based Rhythmic Auditory Cueing Evaluation (iRACE) for Parkinson's Disease. , 2014, , .		10
75	Feasibility Study of a Wearable System Based on a Wireless Body Area Network for Gait Assessment in Parkinson's Disease Patients. <i>Sensors</i> , 2014, 14, 4618-4633.	2.1	51
76	Incremental similarity metric to evaluate complexity of human gait: A distributed Wireless Sensor Network approach. , 2014, , .		1
77	Synchronized walking cadence for TUG in perturbed environments: Using Earcon or Tacton cues?. , 2014, , .		4
78	Gait as a biomarker? Accelerometers reveal that reduced movement quality while walking is associated with Parkinson's disease, ageing and fall risk. , 2014, 2014, 5968-71.		18
79	Classification of gait quality for biofeedback to improve heel-to-toe gait. , 2014, 2014, 3626-9.		6
80	Identification of functional parameters for the classification of older female fallers and prediction of "first-time" fallers. <i>Journal of the Royal Society Interface</i> , 2014, 11, 20140353.	1.5	46
81	Effects of 24 wk of Treadmill Training on Gait Performance in Parkinson's Disease. <i>Medicine and Science in Sports and Exercise</i> , 2014, 46, 645-655.	0.2	77
82	The relationship between fear of falling to spatiotemporal gait parameters measured by an instrumented treadmill in people with multiple sclerosis. <i>Gait and Posture</i> , 2014, 39, 739-744.	0.6	42
83	Increased gait variability is associated with the history of falls in patients with cerebellar ataxia. <i>Journal of Neurology</i> , 2014, 261, 213-223.	1.8	107
84	Accurate and Reliable Gait Cycle Detection in Parkinson's Disease. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2014, 22, 127-137.	2.7	146
85	Comparison of two accelerometer filter settings in individuals with Parkinson's disease. <i>Physiological Measurement</i> , 2014, 35, 2287-2296.	1.2	32
86	Insights into gait disorders: Walking variability using phase plot analysis, Huntington's disease. <i>Gait and Posture</i> , 2014, 40, 694-700.	0.6	37
87	Recurring patterns in stationary intervals of abdominal uterine electromyograms during gestation. <i>Medical and Biological Engineering and Computing</i> , 2014, 52, 707-716.	1.6	12
88	Shotgun approaches to gait analysis: insights & limitations. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2014, 11, 120.	2.4	6
89	Is gait variability reliable? An assessment of spatio-temporal parameters of gait variability during continuous overground walking. <i>Gait and Posture</i> , 2014, 39, 615-617.	0.6	105
90	Detection of co-regulation of local structure and magnitude of stride time variability using a new local detrended fluctuation analysis. <i>Gait and Posture</i> , 2014, 39, 466-471.	0.6	12

#	ARTICLE	IF	CITATIONS
91	Complexity-Based Measures Inform Effects of Tai Chi Training on Standing Postural Control: Cross-Sectional and Randomized Trial Studies. PLoS ONE, 2014, 9, e114731.	1.1	58
93	Rhythm-fluctuation-based evaluation platform for gait training of Parkinson's disease patients. , 2015, , .		0
94	Does proprioceptive system stimulation improve sit-to-walk performance in healthy young adults?. Journal of Physical Therapy Science, 2015, 27, 1113-1116.	0.2	10
95	Effects of Auditory Rhythm and Music on Gait Disturbances in Parkinsonâ€™s Disease. Frontiers in Neurology, 2015, 6, 234.	1.1	107
96	Cues and Attention in Parkinsonian Gait: Potential Mechanisms and Future Directions. Frontiers in Neurology, 2015, 6, 255.	1.1	26
97	A Validated Smartphone-Based Assessment of Gait and Gait Variability in Parkinsonâ€™s Disease. PLoS ONE, 2015, 10, e0141694.	1.1	117
98	Stride-Time Variability and Fall Risk in Persons with Multiple Sclerosis. Multiple Sclerosis International, 2015, 2015, 1-7.	0.4	44
99	Development of an Auditory Cueing System to Assist Gait in Patients with Parkinsonâ€™s Disease. Lecture Notes in Computer Science, 2015, , 93-104.	1.0	0
100	Notice of Removal Gait state transition by gait training using interactive rhythmic auditory cue in development process of gait rhythm generation disorders. , 2015, , .		2
101	Prolonged cycling alters stride time variability and kinematics of a post-cycle transition run in triathletes. Journal of Electromyography and Kinesiology, 2015, 25, 34-39.	0.7	8
102	The Temporal Structure of State Self-Esteem Variability During Parentâ€™Adolescent Interactions: More Than Random Fluctuations. Self and Identity, 2015, 14, 314-333.	1.0	19
103	Experimental control of scaling behavior: what is not fractal?. Experimental Brain Research, 2015, 233, 2813-2821.	0.7	26
104	Uncontrolled head oscillations in people with Parkinsonâ€™s disease may reflect an inability to respond to perturbations while walking. Physiological Measurement, 2015, 36, 873-881.	1.2	14
105	Head and pelvis stride-to-stride oscillations in gait: validation and interpretation of measurements from wearable accelerometers. Physiological Measurement, 2015, 36, 857-872.	1.2	28
106	Impaired movement timing in neurological disorders: rehabilitation and treatment strategies. Annals of the New York Academy of Sciences, 2015, 1337, 111-117.	1.8	53
107	The effectiveness of Tai Chi for patients with Parkinsonâ€™s disease: study protocol for a randomized controlled trial. Trials, 2015, 16, 111.	0.7	13
108	Classification of Parkinson's Disease Gait Using Spatial-Temporal Gait Features. IEEE Journal of Biomedical and Health Informatics, 2015, 19, 1794-1802.	3.9	163
109	Gait variability and motor control in people with knee osteoarthritis. Gait and Posture, 2015, 42, 479-484.	0.6	33

#	ARTICLE	IF	CITATIONS
110	Neurologic Music Therapy Training for Mobility and Stability Rehabilitation with Parkinson's Disease – A Pilot Study. <i>Frontiers in Human Neuroscience</i> , 2015, 9, 710.	1.0	41
111	Can Gait Signatures Provide Quantitative Measures for Aiding Clinical Decision-Making? A Systematic Meta-Analysis of Gait Variability Behavior in Patients with Parkinson's Disease. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 319.	1.0	37
112	Accelerometer-Based Step Regularity Is Lower in Older Adults with Bilateral Knee Osteoarthritis. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 625.	1.0	32
113	Effect of Interpersonal Interaction on Festinating Gait Rehabilitation in Patients with Parkinson's Disease. <i>PLoS ONE</i> , 2016, 11, e0155540.	1.1	8
114	Variability of Anticipatory Postural Adjustments During Gait Initiation in Individuals With Parkinson Disease. <i>Journal of Neurologic Physical Therapy</i> , 2016, 40, 40-46.	0.7	26
115	A possible parameter for gait clinimetric evaluation in Parkinson's disease patients. <i>Journal of Physics: Conference Series</i> , 2016, 705, 012019.	0.3	3
116	Test-Retest Reliability and Minimal Detectable Change for the 10-Meter Walk Test in Older Adults With Parkinson's disease. <i>Journal of Geriatric Physical Therapy</i> , 2016, 39, 165-170.	0.6	77
117	Falls and fear of falling in vertigo and balance disorders: A controlled cross-sectional study. <i>Journal of Vestibular Research: Equilibrium and Orientation</i> , 2016, 25, 241-251.	0.8	98
118	Motor noise is rich signal in autism research and pharmacological treatments. <i>Scientific Reports</i> , 2016, 6, 37422.	1.6	75
119	Virtual reality for rehabilitation in Parkinson's disease. <i>The Cochrane Library</i> , 2016, 2016, CD010760.	1.5	162
120	Entropy-based complexity measures for gait data of patients with Parkinson's disease. <i>Chaos</i> , 2016, 26, 023115.	1.0	17
121	Gait variability in people with neurological disorders: A systematic review and meta-analysis. <i>Human Movement Science</i> , 2016, 47, 197-208.	0.6	182
122	Revealing the quality of movement: A meta-analysis review to quantify the thresholds to pathological variability during standing and walking. <i>Neuroscience and Biobehavioral Reviews</i> , 2016, 68, 111-119.	2.9	62
123	Accelerometer-based determination of gait variability in older adults with knee osteoarthritis. <i>Gait and Posture</i> , 2016, 50, 126-130.	0.6	40
124	Quantitative assessment of gait in elderly people affected by Parkinson's Disease. , 2016, , .		12
125	The role of environmental constraints in walking: Effects of steering and sharp turns on gait dynamics. <i>Scientific Reports</i> , 2016, 6, 28374.	1.6	21
126	Multimodal Swallowing Evaluation with High-Resolution Manometry Reveals Subtle Swallowing Changes in Early and Mid-Stage Parkinson Disease. <i>Journal of Parkinson's Disease</i> , 2016, 6, 197-208.	1.5	60
127	Fractal Fluctuations in Human Walking: Comparison Between Auditory and Visually Guided Stepping. <i>Annals of Biomedical Engineering</i> , 2016, 44, 2785-2793.	1.3	48

#	ARTICLE	IF	CITATIONS
128	Evidence of a conservative gait strategy in athletes with a history of concussions. <i>Journal of Sport and Health Science</i> , 2016, 5, 417-423.	3.3	52
129	Synchrony and Reciprocity: Key Mechanisms for Social Companion Robots in Therapy and Care. <i>International Journal of Social Robotics</i> , 2016, 8, 125-143.	3.1	62
130	Timing control of gait: a study of essential tremor patients vs. age-matched controls. <i>Cerebellum and Ataxias</i> , 2016, 3, 5.	1.9	8
131	Gyroscopic corrections improve wearable sensor data prior to measuring dynamic sway in the gait of people with Multiple Sclerosis. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2016, 19, 1339-1346.	0.9	24
132	Test-Retest Reliability of Dual-Task Outcome Measures in People With Parkinson Disease. <i>Physical Therapy</i> , 2016, 96, 1276-1286.	1.1	29
133	Stability and Flexibility During Human Motor Control. <i>Advances in Cognitive Neurodynamics</i> , 2016, , 67-73.	0.1	1
134	Neural Control of Walking in People with Parkinsonism. <i>Physiology</i> , 2016, 31, 95-107.	1.6	112
135	A review of presented mathematical models in Parkinson's disease: black- and gray-box models. <i>Medical and Biological Engineering and Computing</i> , 2016, 54, 855-868.	1.6	25
136	Analysis of Gait Rhythm Fluctuations for Neurodegenerative Diseases by Phase Synchronization and Conditional Entropy. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2016, 24, 291-299.	2.7	42
137	A Mobile Kalman-Filter Based Solution for the Real-Time Estimation of Spatio-Temporal Gait Parameters. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2016, 24, 764-773.	2.7	116
138	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. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2016, 20, 838-847.	3.9	246
139	Gait analysis and machine learning classification on healthy subjects in normal walking. <i>International Journal of Parallel, Emergent and Distributed Systems</i> , 2017, 32, 185-194.	0.7	9
140	Parkinson's Disease and Gait Asymmetry. , 2017, , 161-175.		0
141	Concurrent validation of an index to estimate fall risk in community dwelling seniors through a wireless sensor insole system: A pilot study. <i>Gait and Posture</i> , 2017, 55, 6-11.	0.6	43
142	Most suitable mother wavelet for the analysis of fractal properties of stride interval time series via the average wavelet coefficient method. <i>Computers in Biology and Medicine</i> , 2017, 80, 175-184.	3.9	2
143	Loss of gait control assessed by cognitive-motor dual-tasks: pros and cons in detecting people at risk of developing Alzheimer's and Parkinson's diseases. <i>GeroScience</i> , 2017, 39, 305-329.	2.1	60
144	The validity of the Gait Variability Index for individuals with mild to moderate Parkinson's disease. <i>Gait and Posture</i> , 2017, 54, 311-317.	0.6	21
145	Dopaminergic and non-dopaminergic gait components assessed by instrumented timed up and go test in Parkinson's disease. <i>Journal of Neural Transmission</i> , 2017, 124, 1539-1546.	1.4	7

#	ARTICLE	IF	CITATIONS
146	Effects of cognitive versus motor dual-task on spatiotemporal gait parameters in healthy controls and multiple sclerosis patients with and without fall history. <i>Multiple Sclerosis and Related Disorders</i> , 2017, 18, 8-14.	0.9	20
147	Recuperation of slow walking in de novo Parkinson's disease is more closely associated with increased cadence, rather than with expanded stride length. <i>Gait and Posture</i> , 2017, 58, 1-6.	0.6	25
148	Gait Influence Diagrams in Parkinson's Disease. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2017, 25, 1257-1267.	2.7	9
149	The Effect of External and Internal Focus of Attention on Gait Variability in Older Adults. <i>Journal of Motor Behavior</i> , 2017, 49, 179-184.	0.5	14
150	Measuring signal fluctuations in gait rhythm time series of patients with Parkinson's disease using entropy parameters. <i>Biomedical Signal Processing and Control</i> , 2017, 31, 265-271.	3.5	55
151	Biologically-variable rhythmic auditory cues are superior to isochronous cues in fostering natural gait variability in Parkinson's disease. <i>Gait and Posture</i> , 2017, 51, 64-69.	0.6	55
152	Statistical Energy Values and Peak Analysis (SEP) Approach for Detection of NeuroDegenerative Diseases. , 2017, , .		1
153	Different protocols for analyzing behavior and adaptability in obstacle crossing in Parkinson's disease. <i>Clinical Interventions in Aging</i> , 2017, Volume 12, 1843-1857.	1.3	7
154	Sample Entropy Identifies Differences in Spontaneous Leg Movement Behavior between Infants with Typical Development and Infants at Risk of Developmental Delay. <i>Technologies</i> , 2017, 5, 55.	3.0	23
155	The Lesioned Spinal Cord Is a "New" Spinal Cord: Evidence from Functional Changes after Spinal Injury in Lamprey. <i>Frontiers in Neural Circuits</i> , 2017, 11, 84.	1.4	40
156	Wearable sensors objectively measure gait parameters in Parkinson's disease. <i>PLoS ONE</i> , 2017, 12, e0183989.	1.1	235
158	Gait analysis and clinical correlations in early Parkinson's disease. <i>Functional Neurology</i> , 2017, 32, 28.	1.3	157
159	A Correlation Network Model Utilizing Gait Parameters for Evaluating Health Levels. , 2017, , .		3
160	Gait analysis in PSP and NPH. <i>Neurology</i> , 2018, 90, e1021-e1028.	1.5	34
161	Nintendo Wii, Versus Xbox Kinect, for Assisting People With Parkinson's Disease. <i>Perceptual and Motor Skills</i> , 2018, 125, 003151251876920.	0.6	24
162	Tensor Decomposition of Gait Dynamics in Parkinson's Disease. <i>IEEE Transactions on Biomedical Engineering</i> , 2018, 65, 1820-1827.	2.5	36
163	Association between stride time fractality and gait adaptability during unperturbed and asymmetric walking. <i>Human Movement Science</i> , 2018, 58, 248-259.	0.6	22
164	Design and Validation of a Biofeedback Device to Improve Heel-to-Toe Gait in Seniors. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2018, 22, 140-146.	3.9	14

#	ARTICLE	IF	CITATIONS
165	Multifractal detrended cross correlation analysis of neuro-degenerative diseases—An in depth study. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 491, 188-198.	1.2	16
166	Introducing Statistical Persistence Decay: A Quantification of Stride-to-Stride Time Interval Dependency in Human Gait. <i>Annals of Biomedical Engineering</i> , 2018, 46, 60-70.	1.3	7
167	Effects of Acute Transcranial Direct Current Stimulation on Gait Kinematics of Individuals With Parkinson Disease. <i>Topics in Geriatric Rehabilitation</i> , 2018, 34, 262-268.	0.2	13
168	Impedance Model of the Interaction Between Environment and Human Body and Its Modification Design. , 2018, 2018, 1805-1808.		1
169	Quantitative assessment of gait parameters in people with Parkinson's disease in laboratory and clinical setting: Are the measures interchangeable?. <i>Neurology International</i> , 2018, 10, 7729.	1.3	21
170	Quantifying Dynamic Balance in Young, Elderly and Parkinson's Individuals: A Systematic Review. <i>Frontiers in Aging Neuroscience</i> , 2018, 10, 387.	1.7	46
171	Gait Anomaly Detection of Subjects With Parkinson's Disease Using a Deep Time Series-Based Approach. <i>IEEE Access</i> , 2018, 6, 73280-73292.	2.6	31
172	Spatiotemporal Gait Analysis and Lower Limb Functioning in Foot Dystonia Treated with Botulinum Toxin. <i>Toxins</i> , 2018, 10, 532.	1.5	15
173	Interaction between step-to-step variability and metabolic cost of transport during human walking. <i>Journal of Experimental Biology</i> , 2018, 221, .	0.8	14
174	Gait Study of Parkinson's Disease Subjects Using Haptic Cues with A Motorized Walker. <i>Sensors</i> , 2018, 18, 3549.	2.1	15
175	COMPREHENSIVE CHARACTERIZATION OF GAIT VARIABILITY IN PATIENTS WITH KNEE OSTEOARTHRITIS FOR ALTERED VELOCITIES. <i>Journal of Mechanics in Medicine and Biology</i> , 2018, 18, 1850041.	0.3	0
176	Effect of spinal kypho-orthosis to gait and forward flexion in Parkinson disease. <i>Journal of Physical Therapy Science</i> , 2018, 30, 988-992.	0.2	1
177	Does dual-task training improve spatiotemporal gait parameters in Parkinson's disease?. <i>Parkinsonism and Related Disorders</i> , 2018, 55, 86-91.	1.1	51
178	Tai Chi for Reducing Dual-task Gait Variability, a Potential Mediator of Fall Risk in Parkinson's Disease: A Pilot Randomized Controlled Trial. <i>Global Advances in Health and Medicine</i> , 2018, 7, 216495611877538.	0.7	42
179	Good agreement between smart device and inertial sensor-based gait parameters during a 6-min walk. <i>Gait and Posture</i> , 2018, 64, 63-67.	0.6	10
180	Relationships between gait and emotion in Parkinson's disease: A narrative review. <i>Gait and Posture</i> , 2018, 65, 57-64.	0.6	54
181	Gait Complexity and Regularity Are Differently Modulated by Treadmill Walking in Parkinson's Disease and Healthy Population. <i>Frontiers in Physiology</i> , 2018, 9, 68.	1.3	46
182	Gait Analysis for Early Detection of Motor Symptoms in the 6-OHDA Rat Model of Parkinson's Disease. <i>Frontiers in Behavioral Neuroscience</i> , 2018, 12, 39.	1.0	34

#	ARTICLE	IF	CITATIONS
183	Gait Stability Has Phase-Dependent Dual-Task Costs in Parkinson's Disease. <i>Frontiers in Neurology</i> , 2018, 9, 373.	1.1	26
184	Brain comorbidities in normal pressure hydrocephalus. <i>European Journal of Neurology</i> , 2018, 25, e94.	1.7	2
185	Patient-reported and performance-based measures of walking in mild-to-moderate Parkinson's disease. <i>Brain and Behavior</i> , 2018, 8, e01081.	1.0	14
186	SPARC: a new approach to quantifying gait smoothness in patients with Parkinson's disease. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2018, 15, 49.	2.4	59
187	Recurrence Quantification Analysis at work: Quasi-periodicity based interpretation of gait force profiles for patients with Parkinson disease. <i>Scientific Reports</i> , 2018, 8, 9102.	1.6	37
188	Movement Symmetry Assessment by Bilateral Motion Data Fusion. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 225-236.	2.5	8
189	Effects of a ballet intervention on trunk coordination and range of motion during gait in people with Parkinson's. <i>Cogent Medicine</i> , 2019, 6, 1583085.	0.7	2
190	Age Matters: Objective Gait Assessment in Early Parkinson's Disease Using an RGB-D Camera. <i>Parkinson's Disease</i> , 2019, 2019, 1-9.	0.6	8
191	Gait analysis with wearables predicts conversion to Parkinson disease. <i>Annals of Neurology</i> , 2019, 86, 357-367.	2.8	137
192	Do Upper and Lower Camptocormias Affect Gait and Postural Control in Patients with Parkinson's Disease? An Observational Cross-Sectional Study. <i>Parkinson's Disease</i> , 2019, 2019, 1-7.	0.6	6
193	Modeling of Neurodegenerative Diseases Using Discrete Chaotic Systems. <i>Communications in Theoretical Physics</i> , 2019, 71, 1241.	1.1	6
194	Abnormal Muscle Activity and Variability Before, During, and After the Occurrence of Freezing in Parkinson's Disease. <i>Frontiers in Neurology</i> , 2019, 10, 951.	1.1	6
195	Quantitative Gait Analysis and Cerebrospinal Fluid Tap Test for Idiopathic Normal-pressure Hydrocephalus. <i>Scientific Reports</i> , 2019, 9, 16255.	1.6	18
196	Quantifying normal and parkinsonian gait features from home movies: Practical application of a deep learning-based 2D pose estimator. <i>PLoS ONE</i> , 2019, 14, e0223549.	1.1	52
197	Fractal properties and short-term correlations in motor control in cycling: influence of a cognitive challenge. <i>Human Movement Science</i> , 2019, 67, 102518.	0.6	1
198	Motor Adaptation in Parkinson's Disease During Prolonged Walking in Response to Corrective Acoustic Messages. <i>Frontiers in Aging Neuroscience</i> , 2019, 11, 265.	1.7	5
199	Wearable Sensor Based Stooped Posture Estimation in Simulated Parkinson's Disease Gaits. <i>Sensors</i> , 2019, 19, 223.	2.1	11
201	The Diagnostic Scope of Sensor-Based Gait Analysis in Atypical Parkinsonism: Further Observations. <i>Frontiers in Neurology</i> , 2019, 10, 5.	1.1	25

#	ARTICLE	IF	CITATIONS
202	Similarities and Differences of Gait Patterns in Women and Men With Parkinson Disease With Mild Disability. Archives of Physical Medicine and Rehabilitation, 2019, 100, 2039-2045.	0.5	5
203	Proposal of a new conceptual gait model for patients with Parkinson's disease based on factor analysis. BioMedical Engineering OnLine, 2019, 18, 70.	1.3	17
204	Walking to your right music: a randomized controlled trial on the novel use of treadmill plus music in Parkinson's disease. Journal of NeuroEngineering and Rehabilitation, 2019, 16, 68.	2.4	66
205	Physiological complexity of gait between regular and non-exercisers with Parkinson's disease. Clinical Biomechanics, 2019, 68, 23-28.	0.5	5
206	Fourier-Based Footfall Placement Variability in Parkinson's Disease. BioMed Research International, 2019, 2019, 1-7.	0.9	1
207	Gait Training in Virtual Reality: Short-Term Effects of Different Virtual Manipulation Techniques in Parkinson's Disease. Cells, 2019, 8, 419.	1.8	36
208	Which Gait Parameters and Walking Patterns Show the Significant Differences Between Parkinson's Disease and Healthy Participants?. Biosensors, 2019, 9, 59.	2.3	17
209	Translational methods to detect asymmetries in temporal and spatial walking metrics in parkinsonian mouse models and human subjects with Parkinson's disease. Scientific Reports, 2019, 9, 2437.	1.6	7
210	Exploring gait adaptations to perturbed and conventional treadmill training in Parkinson's disease: Time-course, sustainability, and transfer. Human Movement Science, 2019, 64, 123-132.	0.6	7
211	The Role of Movement Analysis in Diagnosing and Monitoring Neurodegenerative Conditions: Insights from Gait and Postural Control. Brain Sciences, 2019, 9, 34.	1.1	109
212	Effects of Gait Strategy and Speed on Regularity of Locomotion Assessed in Healthy Subjects Using a Multi-Sensor Method. Sensors, 2019, 19, 513.	2.1	18
213	Assessing Gait in Parkinson's Disease Using Wearable Motion Sensors: A Systematic Review. Diseases (Basel, Switzerland), 2019, 7, 18.	1.0	109
214	Using Wavelets for Gait and Arm Swing Analysis. , 2019, , .		1
215	Diagnosis of Parkinson's disease using Gait Dynamics and Images. Procedia Computer Science, 2019, 165, 428-434.	1.2	12
216	Wavelet-based Semblance Analysis of Gait Dynamics in Parkinson's Disease. , 2019, , .		0
217	Classification of short time series in early Parkinson's disease with deep learning of fuzzy recurrence plots. IEEE/CAA Journal of Automatica Sinica, 2019, 6, 1306-1317.	8.5	52
218	Biases in the Simulation and Analysis of Fractal Processes. Computational and Mathematical Methods in Medicine, 2019, 2019, 1-12.	0.7	12
219	Comparable Stride Time Fractal Dynamics and Gait Adaptability in Active Young and Older Adults Under Normal and Asymmetric Walking. Frontiers in Physiology, 2019, 10, 1318.	1.3	10

#	ARTICLE	IF	CITATIONS
220	Wearable-Sensor-based Detection and Prediction of Freezing of Gait in Parkinson's Disease: A Review. <i>Sensors</i> , 2019, 19, 5141.	2.1	110
221	Gait classification for Parkinson's Disease using Stacked 2D and 1D Convolutional Neural Network. , 2019, , .		8
222	An Internet of Things infrastructure for gait characterization in assisted living environments and its application in the discovery of associations between frailty and cognition. <i>International Journal of Distributed Sensor Networks</i> , 2019, 15, 155014771988354.	1.3	3
223	Mental Singing Reduces Gait Variability More Than Music Listening for Healthy Older Adults and People With Parkinson Disease. <i>Journal of Neurologic Physical Therapy</i> , 2019, 43, 204-211.	0.7	20
224	Prediagnostic markers of idiopathic Parkinson's disease: Gait, visuospatial ability and executive function. <i>Gait and Posture</i> , 2019, 68, 500-505.	0.6	15
225	Stride-time variability is related to sensorimotor cortical activation during forward and backward walking. <i>Neuroscience Letters</i> , 2019, 692, 150-158.	1.0	12
226	Statistical Modeling in Biomedical Engineering. , 2019, , 164-176.		1
227	Relationship between stride interval variability and aging: use of linear and non-linear estimators for gait variability assessment in assisted living environments. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2019, 10, 2095-2109.	3.3	6
228	Effects of a ballet-based dance intervention on gait variability and balance confidence of people with Parkinson's. <i>Arts and Health</i> , 2019, 11, 133-146.	0.6	12
229	A novel instrumented walker for individualized visual cue setting for gait training in patients with Parkinson's disease. <i>Assistive Technology</i> , 2020, 32, 203-213.	1.2	7
230	Assessment of Motor Impairments in Early Untreated Parkinson's Disease Patients: The Wearable Electronics Impact. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020, 24, 120-130.	3.9	45
231	Deep brain stimulation enhances movement complexity during gait in individuals with Parkinson's disease. <i>Neuroscience Letters</i> , 2020, 728, 133588.	1.0	4
232	How is dynamic balance during walking affected by PD?. , 2020, , 99-122.		0
233	Decreased foot height may be a subclinical shuffling gait in early stage of Parkinson's disease: A study of three-dimensional motion analysis. <i>Gait and Posture</i> , 2020, 76, 64-67.	0.6	7
234	Asymmetric dynamic center-of-pressure in Parkinson's disease. <i>Journal of the Neurological Sciences</i> , 2020, 408, 116559.	0.3	15
235	Analysis of the human gait rhythm in Neurodegenerative disease: A multifractal approach using Multifractal detrended cross correlation analysis. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 540, 123154.	1.2	6
236	Load Magnitude and Locomotion Pattern Alter Locomotor System Function in Healthy Young Adult Women. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 582219.	2.0	12
237	Restricted Arm Swing in People With Parkinson's Disease Decreases Step Length and Time on Destabilizing Surfaces. <i>Frontiers in Neurology</i> , 2020, 11, 873.	1.1	9

#	ARTICLE	IF	CITATIONS
238	Immersive Virtual Reality to Restore Natural Long-Range Autocorrelations in Parkinson's Disease Patients' Gait During Treadmill Walking. <i>Frontiers in Physiology</i> , 2020, 11, 572063.	1.3	19
239	Treadmill walking alters stride time dynamics in Parkinson's disease. <i>Gait and Posture</i> , 2020, 77, 195-200.	0.6	8
240	The interplay between physical activity and aging in locomotor fractal behavior. <i>Chaos, Solitons and Fractals: X</i> , 2020, 5, 100045.	1.0	2
241	Musical pleasure beneficially alters stride and arm swing amplitude during rhythmically-cued walking in people with Parkinson's disease. <i>Human Movement Science</i> , 2020, 74, 102718.	0.6	12
242	Clinical 3-D Gait Assessment of Patients With Polyneuropathy Associated With Hereditary Transthyretin Amyloidosis. <i>Frontiers in Neurology</i> , 2020, 11, 605282.	1.1	6
243	Wearable Health Technology to Quantify the Functional Impact of Peripheral Neuropathy on Mobility in Parkinson's Disease: A Systematic Review. <i>Sensors</i> , 2020, 20, 6627.	2.1	9
244	On the application of entropic half-life and statistical persistence decay for quantification of time dependency in human gait. <i>Journal of Biomechanics</i> , 2020, 108, 109893.	0.9	2
245	Stochastic Resonance Reduces Sway and Gait Variability in Individuals With Unilateral Transtibial Amputation: A Pilot Study. <i>Frontiers in Physiology</i> , 2020, 11, 573700.	1.3	9
246	A Discrete Fractional-Order Prion Model Motivated by Parkinson's Disease. <i>Mathematical Problems in Engineering</i> , 2020, 2020, 1-12.	0.6	2
247	Reconstruction of dual tasking gait pattern in Parkinson's disease subjects using radial basis function based artificial intelligence. <i>Journal of Intelligent and Fuzzy Systems</i> , 2020, 39, 5437-5448.	0.8	1
248	Effect of Parkinson's disease and two therapeutic interventions on muscle activity during walking: a systematic review. <i>Npj Parkinson's Disease</i> , 2020, 6, 22.	2.5	20
249	Multi-parameter Behavioral Phenotyping of the MPP+ Model of Parkinson's Disease in Zebrafish. <i>Frontiers in Behavioral Neuroscience</i> , 2020, 14, 623924.	1.0	10
250	Influence of Autocorrelated Rhythmic Auditory Stimulations on Parkinson's Disease Gait Variability: Comparison With Other Auditory Rhythm Variabilities and Perspectives. <i>Frontiers in Physiology</i> , 2020, 11, 601721.	1.3	4
251	Estimating Postural Stability Using Improved Permutation Entropy via TUG Accelerometer Data for Community-Dwelling Elderly People. <i>Entropy</i> , 2020, 22, 1097.	1.1	10
252	Gait Kinematic Parameters in Parkinson's Disease: A Systematic Review. <i>Journal of Parkinson's Disease</i> , 2020, 10, 843-853.	1.5	29
253	Entropy of Real-World Gait in Parkinson's Disease Determined from Wearable Sensors as a Digital Marker of Altered Ambulatory Behavior. <i>Sensors</i> , 2020, 20, 2631.	2.1	23
254	Digital Biomarkers of Mobility in Parkinson's Disease During Daily Living. <i>Journal of Parkinson's Disease</i> , 2020, 10, 1099-1111.	1.5	40
255	Machine Learning Algorithm for Gait Analysis and Classification on Early Detection of Parkinson. , 2020, 4, 1-4.		29

#	ARTICLE	IF	CITATIONS
256	Phase-Dependent Effects of Closed-Loop Tactile Feedback on Gait Stability in Parkinson's Disease. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 1636-1641.	2.7	8
257	Turning Characteristics of the More-Affected Side in Parkinson's Disease Patients with Freezing of Gait. Sensors, 2020, 20, 3098.	2.1	5
258	Design of a Machine Learning-Assisted Wearable Accelerometer-Based Automated System for Studying the Effect of Dopaminergic Medicine on Gait Characteristics of Parkinson's Patients. Journal of Healthcare Engineering, 2020, 2020, 1-11.	1.1	21
259	Synchronized Tactile Stimulation on Upper Limbs Using a Wearable Robot for Gait Assistance in Patients With Parkinson's Disease. Frontiers in Robotics and AI, 2020, 7, 10.	2.0	9
260	Kinematic gait parameters for older adults with Parkinson's disease during street crossing simulation. Human Movement Science, 2020, 70, 102599.	0.6	3
261	The Effects of Dog Walking on Gait and Mobility in People with Parkinson Disease: A Pilot Study. International Journal of Environmental Research and Public Health, 2020, 17, 1549.	1.2	0
262	Assessing the Temporal Organization of Walking Variability: A Systematic Review and Consensus Guidelines on Detrended Fluctuation Analysis. Frontiers in Physiology, 2020, 11, 562.	1.3	27
263	A new approach toward gait training in patients with Parkinson's Disease. Gait and Posture, 2020, 81, 14-20.	0.6	11
264	Virtual reality in research and rehabilitation of gait and balance in Parkinson disease. Nature Reviews Neurology, 2020, 16, 409-425.	4.9	101
265	Deep Learning Identifies Digital Biomarkers for Self-Reported Parkinson's Disease. Patterns, 2020, 1, 100042.	3.1	40
266	A Self-Assembled α -Synuclein Nanoscavenger for Parkinson's Disease. ACS Nano, 2020, 14, 1533-1549.	7.3	71
267	Corticomuscular control of walking in older people and people with Parkinson's disease. Scientific Reports, 2020, 10, 2980.	1.6	41
268	Quantitative coordination evaluation for screening children with Duchenne muscular dystrophy. Chaos, 2020, 30, 023116.	1.0	3
269	Phase resetting and intermittent control at the edge of stability in a simple biped model generates 1/f-like gait cycle variability. Biological Cybernetics, 2020, 114, 95-111.	0.6	7
270	The turning and barrier course reveals gait parameters for detecting freezing of gait and measuring the efficacy of deep brain stimulation. PLoS ONE, 2020, 15, e0231984.	1.1	25
271	A tutorial on fractal analysis of human movements. , 2020, , 313-344.		4
272	Changes in the EEG spectral power during dual-task walking with aging and Parkinson's disease: initial findings using Event-Related Spectral Perturbation analysis. Journal of Neurology, 2021, 268, 161-168.	1.8	19
273	Highly challenging balance and gait training for individuals with Parkinson's disease improves pace, rhythm and variability domains of gait – A secondary analysis from a randomized controlled trial. Clinical Rehabilitation, 2021, 35, 200-212.	1.0	7

#	ARTICLE	IF	CITATIONS
274	Using wearable sensors to characterize gait after spinal cord injury: evaluation of testâ€“retest reliability and construct validity. <i>Spinal Cord</i> , 2021, 59, 675-683.	0.9	9
275	Transcranial direct current stimulation of dorsolateral prefrontal cortex improves dual-task gait performance in patients with Parkinsonâ€™s disease: A double blind, sham-controlled study. <i>Gait and Posture</i> , 2021, 84, 11-16.	0.6	23
276	Gait analysis in neurological populations: Progression in the use of wearables. <i>Medical Engineering and Physics</i> , 2021, 87, 9-29.	0.8	79
277	Benefits of nonlinear analysis indices of walking stride interval in the evaluation of neurodegenerative diseases. <i>Human Movement Science</i> , 2021, 75, 102741.	0.6	5
278	Positive impact of short-term gait rehabilitation in Parkinson patients: a combined approach based on statistics and machine learning. <i>Mathematical Biosciences and Engineering</i> , 2021, 18, 6995-7009.	1.0	28
279	A Multi-view Classification Framework for Falls Prediction: Multiple-domain Assessments in Parkinsonâ€™s Disease. , 0, , .		0
280	Self-Organizing IoT Device-Based Smart Diagnosing Assistance System for Activities of Daily Living. <i>Sensors</i> , 2021, 21, 785.	2.1	2
281	Classification of Parkinsonâ€™s Disease-Associated Gait Patterns. <i>Advances in Intelligent Systems and Computing</i> , 2021, , 595-606.	0.5	0
282	Use of the extended feasible stability region for assessing stability of perturbed walking. <i>Scientific Reports</i> , 2021, 11, 1026.	1.6	5
283	Using range of motion to examine the effects of deep brain stimulation on gait function of Parkinsonâ€™s disease patients with freezing of gait: a proof-of-concept study. <i>Journal of Biomechanical Science and Engineering</i> , 2021, 16, 21-00093-21-00093.	0.1	0
284	Step length synergy while crossing obstacles is weaker in patients with Parkinsonâ€™s disease. <i>Gait and Posture</i> , 2021, 84, 340-345.	0.6	7
285	Design of a Telemetric Gait Analysis Insole and 1-D Convolutional Neural Network to Track Postoperative Fracture Rehabilitation. , 2021, , .		4
286	Rehabilitation of Falls in Parkinsonâ€™s Disease: Self-Perception vs. Objective Measures of Fall Risk. <i>Brain Sciences</i> , 2021, 11, 320.	1.1	6
287	Quantitative mobility measures complement the MDS-UPDRS for characterization of Parkinson's disease heterogeneity. <i>Parkinsonism and Related Disorders</i> , 2021, 84, 105-111.	1.1	13
288	A dual-branch model for diagnosis of Parkinsonâ€™s disease based on the independent and joint features of the left and right gait. <i>Applied Intelligence</i> , 2021, 51, 7221-7232.	3.3	11
289	Factors associated with validity of consumer-oriented wearable physical activity trackers: a meta-analysis. <i>Journal of Medical Engineering and Technology</i> , 2021, 45, 223-236.	0.8	2
290	Relationship between gait complexity and pain attention in chronic low back pain. <i>Pain</i> , 2022, 163, e31-e39.	2.0	4
292	Recovery of dynamic stability during slips unaffected by arm swing in people with Parkinsonâ€™s Disease. <i>PLoS ONE</i> , 2021, 16, e0249303.	1.1	6

#	ARTICLE	IF	CITATIONS
293	Aerobic Exercise Combined With Transcranial Direct Current Stimulation Over the Prefrontal Cortex in Parkinson Disease: Effects on Cortical Activity, Gait, and Cognition. <i>Neurorehabilitation and Neural Repair</i> , 2021, 35, 717-728.	1.4	20
294	Quantitative gait analysis of idiopathic normal pressure hydrocephalus using deep learning algorithms on monocular videos. <i>Scientific Reports</i> , 2021, 11, 12368.	1.6	9
295	A feasibility study of dual-task strategy training to improve gait performance in patients with Parkinson's disease. <i>Scientific Reports</i> , 2021, 11, 12416.	1.6	10
296	Boxing vs Sensory Exercise for Parkinson's Disease: A Double-Blinded Randomized Controlled Trial. <i>Neurorehabilitation and Neural Repair</i> , 2021, 35, 769-777.	1.4	13
297	How groove in music affects gait. <i>Experimental Brain Research</i> , 2021, 239, 2419-2433.	0.7	7
298	Gait kinematics in Low Back Pain: A non-linear approach. <i>Journal of Back and Musculoskeletal Rehabilitation</i> , 2021, 34, 707-714.	0.4	7
299	Ncx3-Induced Mitochondrial Dysfunction in Midbrain Leads to Neuroinflammation in Striatum of A53t- α -Synuclein Transgenic Old Mice. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8177.	1.8	9
300	Recurrence Quantification Analysis of Gait Rhythm in Patients Affected by Parkinson's Disease. , 2021, , .		3
301	Inertial Measurement Units for Gait Analysis of Parkinson's Disease Patients. <i>Series in Bioengineering</i> , 2022, , 79-104.	0.3	0
302	The Relation Between Complexity and Resilient Motor Performance and the Effects of Differential Learning. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 715375.	1.0	7
303	Exploring Test-Retest Reliability and Longitudinal Stability of Digital Biomarkers for Parkinson Disease in the m-Power Data Set: Cohort Study. <i>Journal of Medical Internet Research</i> , 2021, 23, e26608.	2.1	15
304	Mobile phone sensors can discern medication-related gait quality changes in Parkinson's patients in the home environment. <i>Computer Methods and Programs in Biomedicine Update</i> , 2021, 1, 100028.	2.3	9
305	Current Perspectives on the Assessment and Management of Gait Disorders in Parkinson's Disease. <i>Neuropsychiatric Disease and Treatment</i> , 2021, Volume 17, 2965-2985.	1.0	11
306	Muscle activation strategies of people with early-stage Parkinson's during walking. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2021, 18, 133.	2.4	9
307	The Power of Musification: Sensor-Based Music Feedback Improves Arm Swing in Parkinson's Disease. <i>Movement Disorders Clinical Practice</i> , 2021, 8, 1240-1247.	0.8	8
308	Evaluation of movement and brain activity. <i>Clinical Neurophysiology</i> , 2021, 132, 2608-2638.	0.7	22
309	Effects of lumbar spinal disorders on the vertical ground reaction force and Spatio-temporal parameters in gait. <i>Clinical Biomechanics</i> , 2021, 89, 105470.	0.5	0
310	Dopaminergic but not cholinergic neurodegeneration is correlated with gait disturbances in PINK1 knockout rats. <i>Behavioural Brain Research</i> , 2022, 417, 113575.	1.2	5

#	ARTICLE	IF	CITATIONS
311	Acute and Lingering Impairments in Post-concussion Postural Control. , 2014, , 139-165.		2
312	Gait Variability and Fall Risk in Older Adults: The Role of Cognitive Function. , 2020, , 107-138.		16
313	Whole-Body Coordination Skill for Dynamic Balancing on a Slackline. Lecture Notes in Computer Science, 2017, , 528-546.	1.0	6
314	Interaction between cognition and gait in patients with Parkinson's disease. , 2015, , 91-110.		1
317	A Review of Theoretical Perspectives in Cognitive Science on the Presence of $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1"} \rangle \langle \text{mml:mn} \rangle 1 \langle / \text{mml:mn} \rangle \langle \text{mml:mo} \rangle / \langle / \text{mml:mo} \rangle \langle \text{mml:mi} \rangle f \langle / \text{mml:mi} \rangle \langle / \text{mml:math} \rangle$ Scaling in Coordinated Physiological and Cognitive Processes. Journal of Nonlinear Dynamics, 2014, 2014, 1-17.	0.2	31
318	Effects of communal exercise with visual and auditory feedback provided by a smart application on gait ability and fear of falling in Parkinson's disease patients. Journal of Exercise Rehabilitation, 2014, 10, 286-290.	0.4	3
319	Interactive Rhythmic Auditory Stimulation Reinstates Natural 1/f Timing in Gait of Parkinson's Patients. PLoS ONE, 2012, 7, e32600.	1.1	154
320	Variability of Stepping during a Virtual Reality Paradigm in Parkinson's Disease Patients with and without Freezing of Gait. PLoS ONE, 2013, 8, e66718.	1.1	32
321	Multifractal Analysis for Nutritional Assessment. PLoS ONE, 2013, 8, e69000.	1.1	7
322	Quantifying Auditory Temporal Stability in a Large Database of Recorded Music. PLoS ONE, 2014, 9, e110452.	1.1	3
323	Relationship between Neural Rhythm Generation Disorders and Physical Disabilities in Parkinson's Disease Patients' Walking. PLoS ONE, 2014, 9, e112952.	1.1	22
324	Encouraging Spontaneous Synchronisation with D-Jogger, an Adaptive Music Player That Aligns Movement and Music. PLoS ONE, 2014, 9, e114234.	1.1	56
325	The Efficacy of Traditional Chinese Medical Exercise for Parkinson's Disease: A Systematic Review and Meta-analysis. PLoS ONE, 2015, 10, e0122469.	1.1	29
326	Accelerometer Cut Points for Physical Activity Assessment of Older Adults with Parkinson's Disease. PLoS ONE, 2015, 10, e0135899.	1.1	33
327	Predicting Falls in Parkinson Disease: What Is the Value of Instrumented Testing in OFF Medication State?. PLoS ONE, 2015, 10, e0139849.	1.1	34
328	Can Tai Chi training impact fractal stride time dynamics, an index of gait health, in older adults? Cross-sectional and randomized trial studies. PLoS ONE, 2017, 12, e0186212.	1.1	20
329	Fractal analyses reveal independent complexity and predictability of gait. PLoS ONE, 2017, 12, e0188711.	1.1	17
330	Doença de Parkinson e Exercício Físico: Uma Revisão da Literatura. , 2010, 12, 69-85.		4

#	ARTICLE	IF	CITATIONS
331	Recurrence Quantification Analysis on Gait Reaction Forces of Elderly Adults for Determination of Pathological States. Celal Bayar Universitesi Fen Bilimleri Dergisi, 0, , 309-314.	0.1	1
332	Objective and quantitative assessment of motor function in Parkinsonâ€™s diseaseâ€™ from the perspective of practical applications. Annals of Translational Medicine, 2016, 4, 90-90.	0.7	37
333	The Impact of Reducing the Number of Wearable Devices on Measuring Gait in Parkinson Disease: Noninterventional Exploratory Study. JMIR Rehabilitation and Assistive Technologies, 2020, 7, e17986.	1.1	13
334	Machine Learning and Similarity Network Approaches to Support Automatic Classification of Parkinsonâ€™s Diseases Using Accelerometer-based Gait Analysis. , 2019, , .		31
335	Why Brain Criticality Is Clinically Relevant: A Scoping Review. Frontiers in Neural Circuits, 2020, 14, 54.	1.4	95
336	Backward Gait is Associated with Motor Symptoms and Fear of Falling in Patients with<i>De		

#	ARTICLE	IF	CITATIONS
349	The effectiveness of virtual reality and treadmill training in Parkinsonâ€™s disease patients. <i>MOJ Orthopedics & Rheumatology</i> , 2018, 10, .	0.2	0
350	Effects of Counting the Stride Numbers as A Secondary Task on Gait in People with Parkinsonâ€™s Disease: An Idea About the Cause of Dual Task Interference During Gait and A New Hope for Early Diagnosis. <i>Basic and Clinical Neuroscience</i> , 2019, 10, 269-279.	0.3	1
351	Constraints on Joint Degrees of Freedom Affect Human Postural Dynamics: A Pilot Study. <i>Lecture Notes in Computer Science</i> , 2019, , 447-460.	1.0	1
353	Recognize Vital Features for Classification of Neurodegenerative Diseases. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 287-301.	0.5	1
354	Fundamentals of the Neurologic Exam and Other Considerations in the Setting of Progressive Neurological Disease. , 2020, , 31-38.		0
357	3D visual cueing shortens the double support phase of the gait cycle in patients with advanced Parkinson's disease treated with DBS of the STN. <i>PLoS ONE</i> , 2020, 15, e0244676.	1.1	3
358	Self-paced treadmills do not allow for valid observation of linear and nonlinear gait variability outcomes in patients with Parkinsonâ€™s disease. <i>Gait and Posture</i> , 2022, 91, 35-41.	0.6	1
360	Applications in Biomedicine. , 2020, , 99-167.		0
363	Gait Rhythm of Parkinsonâ€™s Disease Patients and an Interpersonal Synchrony Emulation System based on Cooperative Gait. , 0, , 1197-1211.		0
364	Timed Up and Go Test With a Cognitive Task: Correlations With Neuropsychological Measures in People With Parkinsonâ€™s Disease. <i>Cureus</i> , 2020, 12, e10604.	0.2	6
365	Relationships Between Sensorimotor Inhibition and Mobility in Older Adults With and Without Parkinsonâ€™s Disease. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2021, 76, 630-637.	1.7	6
366	Complex Adaptive Behavior and Dexterous Action. <i>Nonlinear Dynamics, Psychology, and Life Sciences</i> , 2015, 19, 345-94.	0.2	44
367	Influence of radial optic flow stimulation on static postural balance in Parkinson's disease: A preliminary study. <i>Human Movement Science</i> , 2022, 81, 102905.	0.6	1
368	Gait Disorder Detection and Classification Method Using Inertia Measurement Unit for Augmented Feedback Training in Wearable Devices. <i>Sensors</i> , 2021, 21, 7676.	2.1	2
369	Enriched Rehabilitation Improves Gait Disorder and Cognitive Function in Parkinsonâ€™s Disease: A Randomized Clinical Trial. <i>Frontiers in Neuroscience</i> , 2021, 15, 733311.	1.4	3
370	On the Potential Benefit of Shunt Surgery in Idiopathic Normal-Pressure Hydrocephalus Patients with Alzheimer's Disease Pathology. <i>Dementia and Neurocognitive Disorders</i> , 2021, 20, 108.	0.4	1
371	Neural correlates of dual-task walking in people with central neurological disorders: a systematic review. <i>Journal of Neurology</i> , 2022, 269, 2378-2402.	1.8	8
372	Motility phenotype in a zebrafish <i>vmat2</i> mutant. <i>PLoS ONE</i> , 2022, 17, e0259753.	1.1	4

#	ARTICLE	IF	CITATIONS
373	Long term correlation and inhomogeneity of the inverted pendulum sway time-series under the intermittent control paradigm. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2022, 108, 106198.	1.7	10
374	Gait Modelling of People with Parkinson's Disease. , 2020, , .		1
375	Detection of Freezing of Gait Using Convolutional Neural Networks and Data From Lower Limb Motion Sensors. <i>IEEE Transactions on Biomedical Engineering</i> , 2022, 69, 2256-2267.	2.5	16
376	Attractylon, a novel dopamine 2 receptor agonist, ameliorates Parkinsonian like motor dysfunctions in MPTP-induced mice. <i>NeuroToxicology</i> , 2022, 89, 121-126.	1.4	5
377	Novel machine learning-based hybrid strategy for severity assessment of Parkinson's disorders. <i>Medical and Biological Engineering and Computing</i> , 2022, 60, 811-828.	1.6	7
378	Are we missing parameters to early detect risk factors of falling in older adults?. <i>Medical Hypotheses</i> , 2022, 160, 110791.	0.8	0
379	A Model for Interprofessional Learning: Dance and Physical Therapy Students' Collaboration on Classes for People with Parkinson's Disease. <i>Dance Education in Practice</i> , 2022, 8, 7-12.	0.1	0
380	Effect of Treadmill Training Interventions on Spatiotemporal Gait Parameters in Older Adults with Neurological Disorders: Systematic Review and Meta-Analysis of Randomized Controlled Trials. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 2824.	1.2	9
381	A Randomized Controlled Trial of Motor Imagery Combined with Virtual Reality Techniques in Patients with Parkinson's Disease. <i>Journal of Personalized Medicine</i> , 2022, 12, 450.	1.1	4
382	What Do Older Canadians Think They Need to Walk Well?. <i>Physiotherapy Canada Physiotherapie Canada</i> , 0, , .	0.3	0
383	Robot-assisted gait training with auditory and visual cues in Parkinson's disease: A randomized controlled trial. <i>Annals of Physical and Rehabilitation Medicine</i> , 2022, 65, 101620.	1.1	16
384	Spectral Electroencephalographic and Heart Rate Variability features enhance identification of medicated/non-medicated Parkinson's disease patients. , 2021, 2021, 5846-5849.		1
385	Disruption of the Cortical-Vagal Communication Network in Parkinson's Disease. , 2021, 2021, 5842-5845.		1
395	Exercise and the elderly: Gait and balance. , 2022, , 423-435.		0
396	Simple and mechanical augmented feedback training devices for Parkinson's disease: A pilot study. <i>Journal of Advanced Marine Engineering and Technology</i> , 2022, 46, 64-76.	0.1	0
397	Foot Trajectory Features in Gait of Parkinson's Disease Patients. <i>Frontiers in Physiology</i> , 2022, 13, .	1.3	2
398	An Activity Recognition Framework for Continuous Monitoring of Non-Steady-State Locomotion of Individuals with Parkinson's Disease. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 4682.	1.3	6
399	Detection of gait variations by using artificial neural networks. <i>Biomedical Engineering Letters</i> , 0, , .	2.1	2

#	ARTICLE	IF	CITATIONS
400	Comparison of effect of rhythmic auditory cueing versus rhythmic visual cueing on gait abnormalities with gait parameters in Parkinson's patients. IP Indian Journal of Neurosciences, 2022, 8, 113-118.	0.0	0
401	Predicting the effects of oscillator-based assistance on stride-to-stride variability of Parkinsonian walkers. , 2022, , .		2
402	Investigating Temporal Kinematic Differences Caused by Unexpected Stimulation during Gait Termination through the Waveform-Level Variance Equality Test. BioMed Research International, 2022, 2022, 1-8.	0.9	2
403	On the fractal geometry of gait dynamics in different neuro-degenerative diseases. Physics in Medicine, 2022, 14, 100050.	0.6	10
404	A Review of the Measurement of the Neurology of Gait in Cognitive Dysfunction or Dementia, Focusing on the Application of fNIRS during Dual-Task Gait Assessment. Brain Sciences, 2022, 12, 968.	1.1	4
405	Compensatory movement strategies differentially affect attention allocation and gait parameters in persons with Parkinson's disease. Frontiers in Human Neuroscience, 0, 16, .	1.0	4
406	Promoting independence in Lewy body dementia through exercise: the PRIDE study. BMC Geriatrics, 2022, 22, .	1.1	1
407	Systematic review of the application of virtual reality to improve balance, gait and motor function in patients with Parkinson's disease. Medicine (United States), 2022, 101, e29212.	0.4	7
408	Pose-Based Tremor Classification for Parkinson's Disease Diagnosis from Video. Lecture Notes in Computer Science, 2022, , 489-499.	1.0	3
409	Multivariate Multiscale Cosine Similarity Entropy and Its Application to Examine Circularity Properties in Division Algebras. Entropy, 2022, 24, 1287.	1.1	2
410	Association of Total Bilirubin with Motor Signs in Early Parkinson's Disease in LRRK2 Variant Carriers. Journal of Molecular Neuroscience, 0, , .	1.1	0
411	Effect of Levodopa and Environmental Setting on Gait and Turning Digital Markers Related to Falls in People with Parkinson's Disease. Movement Disorders Clinical Practice, 2023, 10, 223-230.	0.8	3
412	Closed-looped sensing and stimulation system for Parkinson's disease early diagnosis and rehabilitation. Smart Health, 2022, 26, 100338.	2.0	2
413	APDM gait and balance measures fail to predict symptom progression rate in Parkinson's disease. Frontiers in Neurology, 0, 13, .	1.1	0
414	Leveraging a virtual alley with continuously varying width modulates step width variability during self-paced treadmill walking. Neuroscience Letters, 2023, 793, 136966.	1.0	3
415	Determination of the Predictors with the Greatest Influence on Walking in the Elderly. Medicina (Lithuania), 2022, 58, 1640.	0.8	4
416	Journal of the Society		
417	Relation of gait measures with mild unilateral knee pain during walking using machine learning. Scientific Reports, 2022, 12, .	1.6	5

#	ARTICLE	IF	CITATIONS
418	Making use of noise in biological systems. <i>Progress in Biophysics and Molecular Biology</i> , 2023, 178, 83-90.	1.4	8
419	Effect of aquatic exercise programs according to the International Classification of Functionality, Disability and Health domains in individuals with Parkinson's disease: a systematic review and meta-analysis with GRADE quality assessment. <i>Disability and Rehabilitation</i> , 2024, 46, 429-442.	0.9	3
420	Parkinson's disease fluid biomarkers for differential diagnosis of atypical parkinsonian syndromes. <i>Clinical and Translational Discovery</i> , 2023, 3, .	0.2	3
421	An fNIRS-Based Dynamic Functional Connectivity Analysis Method to Signify Functional Neurodegeneration of Parkinson's Disease. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2023, 31, 1199-1207.	2.7	3
422	The development of a home-based technology to improve gait in people with Parkinson's disease: a feasibility study. <i>BioMedical Engineering OnLine</i> , 2023, 22, .	1.3	0
423	Neuroprotective Effects of P-Coumaric Acid on Haloperidol-Induced Catalepsy Through Ameliorating Oxidative Stress and Brain Dopamine Level. <i>Journal of Pharmacology and Pharmacotherapeutics</i> , 2022, 13, 364-374.	0.2	1
424	Recruit-aged adults may preferentially weight task goals over deleterious cost functions during short duration loaded and imposed gait tasks. <i>Scientific Reports</i> , 2023, 13, .	1.6	0
425	The effect of auditory cues on gait variability in people with Parkinson's disease and older adults: a systematic review. <i>Neurodegenerative Disease Management</i> , 2023, 13, 113-128.	1.2	6
426	Baseline Gait and Motor Function Predict Long-Term Severity of Neurological Outcomes of Viral Infection. <i>International Journal of Molecular Sciences</i> , 2023, 24, 2843.	1.8	0
427	Diagnosis of Neurodegenerative Diseases by Gait Analysis using Triblock CNN and Deep RQA Techniques. , 2022, , .		0
428	Model of Gait Control in Parkinson's Disease and Prediction of Robotic Assistance. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2023, 31, 1374-1383.	2.7	2
429	Gait and turning characteristics from daily life increase ability to predict future falls in people with Parkinson's disease. <i>Frontiers in Neurology</i> , 0, 14, .	1.1	1
430	Reduced Range of Gait Speed: A Parkinson's Disease-Specific Symptom?. <i>Journal of Parkinson's Disease</i> , 2023, 13, 197-202.	1.5	3
431	NDDNet: a deep learning model for predicting neurodegenerative diseases from gait pattern. <i>Applied Intelligence</i> , 2023, 53, 20034-20046.	3.3	5
432	Optimal locations and computational frameworks of FSR and IMU sensors for measuring gait abnormalities. <i>Heliyon</i> , 2023, 9, e15210.	1.4	1
433	Asymmetry measures for quantification of mechanisms contributing to dynamic stability during stepping-in-place gait. <i>Frontiers in Neurology</i> , 0, 14, .	1.1	1
434	Correlates of Person-Specific Rates of Change in Sensor-Derived Physical Activity Metrics of Daily Living in the Rush Memory and Aging Project. <i>Sensors</i> , 2023, 23, 4152.	2.1	3
452	Postural Control in Parkinson's Disease. , 2023, , 35-59.		0

#	ARTICLE	IF	CITATIONS
458	Study on Gait Stabilization Method Using Wearable Cyborg HAL Trunk-Unit for Parkinson's Disease and Parkinsonism with Freezing of Gait. , 2023, , .		0
459	Novel analytics in the management of movement disorders. , 2024, , 67-88.		0