

# Matthew A D Brodie

## List of Publications by Year in descending order

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Version: 2024-02-01

45  
papers

1,843  
citations

293460

24  
h-index

312153

41  
g-index

46  
all docs

46  
docs citations

46  
times ranked

2675  
citing authors

#	ARTICLE	IF	CITATIONS
1	Freezing of Gait in People with Parkinson's Disease: Nature, Occurrence, and Risk Factors. <i>Journal of Parkinson's Disease</i> , 2020, 10, 631-640.	1.5	28
2	Mobile Phone Technologies in the Management of Ischemic Heart Disease, Heart Failure, and Hypertension: Systematic Review and Meta-Analysis. <i>JMIR MHealth and UHealth</i> , 2020, 8, e16695.	1.8	45
3	Preliminary evidence for physical activity following pelvic exenteration: a pilot longitudinal cohort study. <i>BMC Cancer</i> , 2019, 19, 661.	1.1	11
4	Older People with Dementia Have Reduced Daily-Life Activity and Impaired Daily-Life Gait When Compared to Age-Sex Matched Controls. <i>Journal of Alzheimer's Disease</i> , 2019, 71, S125-S135.	1.2	27
5	The upper limb Physiological Profile Assessment: Description, reliability, normative values and criterion validity. <i>PLoS ONE</i> , 2019, 14, e0218553.	1.1	21
6	A pilot study of reactive balance training using trips and slips with increasing unpredictability in young and older adults: Biomechanical mechanisms, falls and clinical feasibility. <i>Clinical Biomechanics</i> , 2019, 67, 171-179.	0.5	22
7	Remote timed up and go evaluation from activities of daily living reveals changing mobility after surgery. <i>Physiological Measurement</i> , 2019, 40, 035004.	1.2	13
8	Effect of Reactive Balance Training Involving Repeated Slips and Trips on Balance Recovery Among Older Adults: A Blinded Randomized Controlled Trial. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2019, 74, 1489-1496.	1.7	48
9	Detection of Near Falls Using Wearable Devices: A Systematic Review. <i>Journal of Geriatric Physical Therapy</i> , 2019, 42, 48-56.	0.6	65
10	Wearable technology reveals gait compensations, unstable walking patterns and fatigue in people with multiple sclerosis. <i>Physiological Measurement</i> , 2018, 39, 075004.	1.2	36
11	Executive functioning, concern about falling and quadriceps strength mediate the relationship between impaired gait adaptability and fall risk in older people. <i>Gait and Posture</i> , 2018, 59, 188-192.	0.6	59
12	Advances in Remote Respiratory Assessments for People with Chronic Obstructive Pulmonary Disease: A Systematic Review. <i>Telemedicine Journal and E-Health</i> , 2018, 24, 415-424.	1.6	23
13	Stepping reaction time and gait adaptability are significantly impaired in people with Parkinson's disease: Implications for fall risk. <i>Parkinsonism and Related Disorders</i> , 2018, 47, 32-38.	1.1	32
14	Exposure to trips and slips with increasing unpredictability while walking can improve balance recovery responses with minimum predictive gait alterations. <i>PLoS ONE</i> , 2018, 13, e0202913.	1.1	46
15	Head and trunk stability during gait before and after levodopa intake in Parkinson's disease subtypes. <i>Experimental Gerontology</i> , 2018, 111, 78-85.	1.2	18
16	Big data vs accurate data in health research: Large-scale physical activity monitoring, smartphones, wearable devices and risk of unconscious bias. <i>Medical Hypotheses</i> , 2018, 119, 32-36.	0.8	48
17	Comparison between clinical gait and daily-life gait assessments of fall risk in older people. <i>Geriatrics and Gerontology International</i> , 2017, 17, 2274-2282.	0.7	84
18	Transfer effects of step training on stepping performance in untrained directions in older adults: A randomized controlled trial. <i>Gait and Posture</i> , 2017, 54, 50-55.	0.6	1

#	ARTICLE	IF	CITATIONS
19	Differences Between Gait on Stairs and Flat Surfaces in Relation to Fall Risk and Future Falls. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 1479-1486.	3.9	49
20	Disentangling the health benefits of walking from increased exposure to falls in older people using remote gait monitoring and multi-dimensional analysis. Physiological Measurement, 2017, 38, 45-62.	1.2	27
21	Impaired heel to toe progression during gait is related to reduced ankle range of motion in people with Multiple Sclerosis. Clinical Biomechanics, 2017, 49, 96-100.	0.5	5
22	Wavelet-Based Sit-To-Stand Detection and Assessment of Fall Risk in Older People Using a Wearable Pendant Device. IEEE Transactions on Biomedical Engineering, 2017, 64, 1602-1607.	2.5	54
23	Kinect-Based Five-Times-Sit-to-Stand Test for Clinical and In-Home Assessment of Fall Risk in Older People. Gerontology, 2016, 62, 118-124.	1.4	75
24	The influence of age, anxiety and concern about falling on postural sway when standing at an elevated level. Human Movement Science, 2016, 49, 206-215.	0.6	31
25	Rivastigmine for gait stability in patients with Parkinson's disease (ReSPonD): a randomised, double-blind, placebo-controlled, phase 2 trial. Lancet Neurology, The, 2016, 15, 249-258.	4.9	257
26	Gyroscopic corrections improve wearable sensor data prior to measuring dynamic sway in the gait of people with Multiple Sclerosis. Computer Methods in Biomechanics and Biomedical Engineering, 2016, 19, 1339-1346.	0.9	24
27	Kinect-based choice reaching and stepping reaction time tests for clinical and in-home assessment of fall risk in older people: a prospective study. European Review of Aging and Physical Activity, 2016, 13, 2.	1.3	24
28	Wearable pendant device monitoring using new wavelet-based methods shows daily life and laboratory gaits are different. Medical and Biological Engineering and Computing, 2016, 54, 663-674.	1.6	126
29	Symmetry Matched Auditory Cues Improve Gait Steadiness in Most People with Parkinson's Disease but not in Healthy Older People. Journal of Parkinson's Disease, 2015, 5, 105-116.	1.5	14
30	Eight-Week Remote Monitoring Using a Freely Worn Device Reveals Unstable Gait Patterns in Older Fallers. IEEE Transactions on Biomedical Engineering, 2015, 62, 2588-2594.	2.5	78
31	Bottom-up subspace clustering suggests a paradigm shift to prevent fall injuries. Medical Hypotheses, 2015, 84, 356-362.	0.8	13
32	Uncontrolled head oscillations in people with Parkinson's disease may reflect an inability to respond to perturbations while walking. Physiological Measurement, 2015, 36, 873-881.	1.2	14
33	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
34	New Methods to Monitor Stair Ascents Using a Wearable Pendant Device Reveal How Behavior, Fear, and Frailty Influence Falls in Octogenarians. IEEE Transactions on Biomedical Engineering, 2015, 62, 2595-2601.	2.5	22
35	Good Lateral Harmonic Stability Combined with Adequate Gait Speed Is Required for Low Fall Risk in Older People. Gerontology, 2015, 61, 69-78.	1.4	28
36	Visuospatial Tasks Affect Locomotor Control More than Nonspatial Tasks in Older People. PLoS ONE, 2014, 9, e109802.	1.1	40

#	ARTICLE	IF	CITATIONS
37	Inertial measurements of free-living activities: Assessing mobility to predict falls. , 2014, 2014, 6892-5.		9
38	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
39	Choice stepping reaction time test using exergame technology for fall risk assessment in older people. , 2014, 2014, 6957-60.		17
40	Age-associated changes in head jerk while walking reveal altered dynamic stability in older people. Experimental Brain Research, 2014, 232, 51-60.	0.7	22
41	Spatial variability during gait initiation while dual tasking is increased in individuals with mild cognitive impairment. Journal of Nutrition, Health and Aging, 2014, 18, 307-312.	1.5	41
42	A comparison of activity classification in younger and older cohorts using a smartphone. Physiological Measurement, 2014, 35, 2269-2286.	1.2	64
43	Comparison of Handheld Video Camera and GAITRite® Measurement of Gait Impairment in People with Early Stage Parkinson's Disease: A Pilot Study. Journal of Parkinson's Disease, 2013, 3, 199-203.	1.5	14
44	The static accuracy and calibration of inertial measurement units for 3D orientation. Computer Methods in Biomechanics and Biomedical Engineering, 2008, 11, 641-648.	0.9	57
45	Dynamic accuracy of inertial measurement units during simple pendulum motion. Computer Methods in Biomechanics and Biomedical Engineering, 2008, 11, 235-242.	0.9	64