Bradford J Mcfadyen

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/8134924/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Traumatic brain injury: integrated approaches to improve prevention, clinical care, and research. Lancet Neurology, The, 2017, 16, 987-1048.	4.9	1,571
2	An integrated biomechanical analysis of normal stair ascent and descent. Journal of Biomechanics, 1988, 21, 733-744.	0.9	570
3	Frontal and sagittal plane analyses of the stair climbing task in healthy adults aged over 40 years: what are the challenges compared to level walking?. Clinical Biomechanics, 2003, 18, 950-959.	0.5	290
4	Scapular behavior in shoulder impingement syndrome. Archives of Physical Medicine and Rehabilitation, 2002, 83, 60-69.	0.5	239
5	A Treadmill and Motion Coupled Virtual Reality System for Gait Training Post-Stroke. Cyberpsychology, Behavior and Social Networking, 2006, 9, 157-162.	2.2	228
6	Three-dimensional gait analysis in women with a total hip arthroplasty. Clinical Biomechanics, 2000, 15, 504-515.	0.5	205
7	The Negotiation of Stationary and Moving Obstructions during Walking: Anticipatory Locomotor Adaptations and Preservation of Personal Space. Motor Control, 2005, 9, 242-269.	0.3	166
8	The development of coordination for reach-to-grasp movements in children. Experimental Brain Research, 2002, 146, 142-154.	0.7	152
9	Reaching in reality and virtual reality: a comparison of movement kinematics in healthy subjects and in adults with hemiparesis. Journal of NeuroEngineering and Rehabilitation, 2004, 1, 11.	2.4	149
10	The effect of foot position and chair height on the asymmetry of vertical forces during sit-to-stand and stand-to-sit tasks in individuals with hemiparesis. Clinical Biomechanics, 2006, 21, 585-593.	0.5	133
11	Efficacy of virtual reality-based intervention on balance and mobility disorders post-stroke: a scoping review. Journal of NeuroEngineering and Rehabilitation, 2015, 12, 46.	2.4	133
12	Modulation of walking speed by changing optic flow in persons with stroke. Journal of NeuroEngineering and Rehabilitation, 2007, 4, 22.	2.4	119
13	When is Vestibular Information Important During Walking?. Journal of Neurophysiology, 2004, 92, 1269-1275.	0.9	117
14	Characteristics of personal space during obstacle circumvention in physical and virtual environments. Gait and Posture, 2008, 27, 239-247.	0.6	112
15	Virtual reality environments for post-stroke arm rehabilitation. Journal of NeuroEngineering and Rehabilitation, 2007, 4, 20.	2.4	99
16	Magnitude effects of galvanic vestibular stimulation on the trajectory of human gait. Neuroscience Letters, 2000, 279, 157-160.	1.0	92
17	Avoidance and Accommodation of Surface Height Changes by Healthy, Community-Dwelling, Young, and Elderly Men. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2002, 57, B166-B174.	1.7	89
18	ls combining gait retraining or an exercise programme with education better than education alone in treating runners with patellofemoral pain?A randomised clinical trial. British Journal of Sports Medicine, 2018, 52, 659-666.	3.1	81

#	Article	IF	CITATIONS
19	Locomotor adjustments for circumvention of an obstacle in the travel path. Experimental Brain Research, 2003, 152, 409-414.	0.7	80
20	Altered Integrated Locomotor and Cognitive Function in Elite Athletes 30 Days Postconcussion. Journal of Head Trauma Rehabilitation, 2013, 28, 293-301.	1.0	77
21	Modification of the sit-to-stand task with the addition of gait initiation. Gait and Posture, 1996, 4, 232-241.	0.6	76
22	The circumvention of obstacles during walking in different environmental contexts: A comparison between older and younger adults. Gait and Posture, 2006, 24, 364-369.	0.6	76
23	Side difference in the hip and knee joint moments during sit-to-stand and stand-to-sit tasks in individuals with hemiparesis. Clinical Biomechanics, 2007, 22, 795-804.	0.5	76
24	Residual Effects of a Traumatic Brain Injury on Locomotor Capacity. Journal of Head Trauma Rehabilitation, 2003, 18, 512-525.	1.0	72
25	Anticipatory locomotor adjustments for accommodating versus avoiding level changes in humans. Experimental Brain Research, 1997, 114, 500-506.	0.7	69
26	Complementary mechanisms for upright balance during walking. PLoS ONE, 2017, 12, e0172215.	1.1	63
27	Transfer strategies used to rise from a chair in normal and low back pain subjects. Clinical Biomechanics, 1994, 9, 85-92.	0.5	62
28	Effects of Environmental Demands on Locomotion After Traumatic Brain Injury. Archives of Physical Medicine and Rehabilitation, 2006, 87, 806-813.	0.5	62
29	Upper limb motor strategies in persons with and without shoulder impingement syndrome across different speeds of movement. Clinical Biomechanics, 2008, 23, 1227-1236.	0.5	62
30	Kinematics of Pointing Movements Made in a Virtual Versus a Physical 3-Dimensional Environment in Healthy and Stroke Subjects. Archives of Physical Medicine and Rehabilitation, 2009, 90, 793-802.	0.5	62
31	Children use different anticipatory control strategies than adults to circumvent an obstacle in the travel path. Experimental Brain Research, 2005, 167, 119-127.	0.7	56
32	Visuomotor control when reaching toward and grasping moving targets. Acta Psychologica, 1996, 92, 17-32.	0.7	52
33	Vestibular Contributions during Human Locomotor Tasks. Exercise and Sport Sciences Reviews, 2005, 33, 107-113.	1.6	49
34	Traumatic brain injury and post-acute decline: what role does environmental enrichment play? A scoping review. Frontiers in Human Neuroscience, 2013, 7, 31.	1.0	48
35	Running gait impulse asymmetries in below-knee amputees. Prosthetics and Orthotics International, 1992, 16, 19-24.	0.5	45
36	A kinematic and kinetic analysis of locomotion during voluntary gait modification in the cat. Experimental Brain Research, 1995, 106, 39-56.	0.7	45

#	Article	IF	CITATIONS
37	Visual-vestibular interactions in postural control during the execution of a dynamic task. Experimental Brain Research, 2002, 146, 490-500.	0.7	45
38	A Preliminary Study to Identify Locomotor-Cognitive Dual Tasks That Reveal Persistent Executive Dysfunction After Mild Traumatic Brain Injury. Archives of Physical Medicine and Rehabilitation, 2014, 95, 1594-1597.	0.5	43
39	Guidelines for Gait Assessments in the Canadian Consortium on Neurodegeneration in Aging (CCNA). Canadian Geriatrics Journal, 2018, 21, 157-165.	0.7	43
40	Anticipatory locomotor adjustments for avoiding visible, fixed obstacles of varying proximity. Human Movement Science, 1993, 12, 259-272.	0.6	40
41	Can measures of cognitive function predict locomotor behaviour in complex environments following a traumatic brain injury?. Brain Injury, 2007, 21, 327-334.	0.6	40
42	Vestibular contributions across the execution of a voluntary forward step. Experimental Brain Research, 2002, 143, 100-105.	0.7	39
43	Aging affects the ability to use optic flow in the control of heading during locomotion. Experimental Brain Research, 2009, 194, 183-190.	0.7	39
44	Extracting phase-dependent human vestibular reflexes during locomotion using both time and frequency correlation approaches. Journal of Applied Physiology, 2011, 111, 1484-1490.	1.2	39
45	Anticipatory locomotor control for obstacle avoidance in mid-childhood aged children. Gait and Posture, 2001, 13, 7-16.	0.6	37
46	A Virtual Reality avatar interaction (VRai) platform to assess residual executive dysfunction in active military personnel with previous mild traumatic brain injury: proof of concept. Disability and Rehabilitation: Assistive Technology, 2017, 12, 758-764.	1.3	37
47	Assessing Mobility and Locomotor Coordination after Stroke with the Rise-to-Walk Task. Neurorehabilitation and Neural Repair, 2003, 17, 83-92.	1.4	36
48	Modality-Specific, Multitask Locomotor Deficits Persist Despite Good Recovery After a Traumatic Brain Injury. Archives of Physical Medicine and Rehabilitation, 2009, 90, 1596-1606.	0.5	36
49	Movement patterns and muscular demands during posterior transfers toward an elevated surface in individuals with spinal cord injury. Spinal Cord, 2005, 43, 74-84.	0.9	35
50	The ability of the Biodex Stability System to distinguish level of function in subjects with a second-degree ankle sprain. Clinical Rehabilitation, 2007, 21, 73-81.	1.0	35
51	Alterations to locomotor navigation in a complex environment at 7 and 30 days following a concussion in an elite athlete. Brain Injury, 2009, 23, 362-369.	0.6	35
52	Effects of walking in a force field for varying durations on aftereffects and on next day performance. Experimental Brain Research, 2009, 199, 145-155.	0.7	34
53	A fluidity scale for evaluating the motor strategy of the rise-to-walk task after stroke. Clinical Rehabilitation, 2003, 17, 674-684.	1.0	33
54	Design and Accuray of an Instrumented Insole Using Pressure Sensors for Step Count. Sensors, 2019, 19, 984.	2.1	33

#	Article	IF	CITATIONS
55	A method of measuring three-dimensional scapular attitudes using the Optotrak probing system. Clinical Biomechanics, 2000, 15, 1-8.	0.5	32
56	Head, arm and trunk coordination during reaching in children. Experimental Brain Research, 2008, 188, 237-247.	0.7	32
57	Normative childhood EMG gait patterns. Journal of Orthopaedic Research, 1987, 5, 283-295.	1.2	31
58	Kinetic and energetic patterns for hindlimb obstacle avoidance during cat locomotion. Experimental Brain Research, 1999, 125, 502-510.	0.7	31
59	Dual task effects for asymmetric stepping on a split-belt treadmill. Gait and Posture, 2009, 30, 340-344.	0.6	31
60	Validity of Instrumented Insoles for Step Counting, Posture and Activity Recognition: A Systematic Review. Sensors, 2019, 19, 2438.	2.1	31
61	Repeated split-belt treadmill walking improved gait ability in individuals with chronic stroke: A pilot study. Physiotherapy Theory and Practice, 2018, 34, 81-90.	0.6	30
62	Upper Limb Obstacle Avoidance Behavior in Individuals With Stroke. Neurorehabilitation and Neural Repair, 2017, 31, 133-146.	1.4	28
63	Executive dysfunction following a mild traumatic brain injury revealed in early adolescence with locomotor-cognitive dual-tasks. Brain Injury, 2016, 30, 1648-1655.	0.6	27
64	The combined control of locomotion and prehension. Neuroscience Research Communications, 1996, 19, 91-100.	0.2	26
65	Stroke Affects Locomotor Steering Responses to Changing Optic Flow Directions. Neurorehabilitation and Neural Repair, 2010, 24, 457-468.	1.4	26
66	The division of visual attention affects the transition point from level walking to stair descent in healthy, active older adults. Experimental Gerontology, 2014, 50, 26-33.	1.2	26
67	Using dual task walking as an aid to assess executive dysfunction ecologically in neurological populations: A narrative review. Neuropsychological Rehabilitation, 2017, 27, 722-743.	1.0	26
68	Real-time modulation of visual feedback on human full-body movements in a virtual mirror: development and proof-of-concept. Journal of NeuroEngineering and Rehabilitation, 2015, 12, 2.	2.4	24
69	The reliability of three-dimensional scapular attitudes in healthy people and people with shoulder impingement syndrome. BMC Musculoskeletal Disorders, 2007, 8, 49.	0.8	21
70	Segmental control for adaptive locomotor adjustments during obstacle clearance in healthy young adults. Experimental Brain Research, 2010, 202, 307-318.	0.7	21
71	Arm movements during split-belt walking reveal predominant patterns of interlimb coupling. Human Movement Science, 2013, 32, 79-90.	0.6	21
72	Kinematic Adaptations of Spinal Cord-Injured Subjects during Obstructed Walking. Neurorehabilitation and Neural Repair, 2003, 17, 25-31.	1.4	20

#	Article	IF	CITATIONS
73	Is the use of vestibular information weighted differently across the initiation of walking?. Experimental Brain Research, 2004, 157, 407-16.	0.7	20
74	Footwear characteristics are related to running mechanics in runners with patellofemoral pain. Gait and Posture, 2017, 54, 144-147.	0.6	20
75	Impact of movement training on upper limb motor strategies in persons with shoulder impingement syndrome. BMC Sports Science, Medicine and Rehabilitation, 2009, 1, 8.	0.7	19
76	Visual-vestibular influences on locomotor adjustments for stepping over an obstacle. Experimental Brain Research, 2007, 179, 235-243.	0.7	18
77	The effects of unsupervised movement training with visual feedback on upper limb kinematic in persons with shoulder impingement syndrome. Journal of Electromyography and Kinesiology, 2010, 20, 939-946.	0.7	18
78	Navigational strategies during fast walking: A comparison between trained athletes and non-athletes. Gait and Posture, 2007, 26, 539-545.	0.6	16
79	Assessing the Perception of Trunk Movements in Military Personnel with Chronic Non-Specific Low Back Pain Using a Virtual Mirror. PLoS ONE, 2015, 10, e0120251.	1.1	16
80	Collision avoidance behaviours when circumventing people of different sizes in various positions and locations. Journal of Motor Behavior, 2021, 53, 166-175.	0.5	16
81	The detailed measurement of foot clearance by young adults during stair descent. Journal of Biomechanics, 2013, 46, 1400-1402.	0.9	15
82	Increasing Task Complexity and ICE Hockey Skills of Youth Athletes. Perceptual and Motor Skills, 2011, 112, 29-43.	0.6	14
83	Use of Segmental Coordination Analysis of Nonparetic and Paretic Limbs During Obstacle Clearance in Communityâ€Đwelling Persons After Stroke. PM and R, 2013, 5, 381-391.	0.9	14
84	A PRELIMINARY ANALYSIS OF THE COORDINATION OF REACHING, GRASPING, AND WALKING. Perceptual and Motor Skills, 1995, 81, 515-519.	0.6	13
85	Changes in lower limb muscle activity after walking on a split-belt treadmill in individuals post-stroke. Journal of Electromyography and Kinesiology, 2017, 32, 93-100.	0.7	13
86	Adaptability of the CNS in Human Walking. Advances in Psychology, 1991, 78, 127-144.	0.1	12
87	Acute Physical Exercise Affects Cognitive Functioning in Children With Cerebral Palsy. Pediatric Exercise Science, 2016, 28, 304-311.	0.5	12
88	Gait Training after Stroke on a Self-Paced Treadmill with and without Virtual Environment Scenarios: A Proof-of-Principle Study. Physiotherapy Canada Physiotherapie Canada, 2018, 70, 221-230.	0.3	12
89	Adding Haptic Feedback to Virtual Environments With a Cable-Driven Robot Improves Upper Limb Spatio-Temporal Parameters During a Manual Handling Task. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 2246-2254.	2.7	12
90	Adaptations in Bilateral Mechanical Power Patterns during Obstacle Avoidance Reveal Distinct Control Strategies for Limb Elevation versus Limb Progression. Motor Control, 2004, 8, 160-173.	0.3	11

#	Article	IF	CITATIONS
91	Increased Obstacle Clearance in People with ARCA-1 Results in Part from Voluntary Coordination Changes Between the Thigh and Shank Segments. Cerebellum, 2011, 10, 732-744.	1.4	11
92	Virtual realityâ€based assessment of cognitiveâ€locomotor interference in healthy young adults. Journal of NeuroEngineering and Rehabilitation, 2021, 18, 53.	2.4	11
93	Effects of Age on Obstacle Avoidance while Walking and Deciphering Text versus Audio Phone Messages. Gerontology, 2019, 65, 524-536.	1.4	10
94	Effects of physical activity level on unobstructed and obstructed walking in young male adults. Gait and Posture, 2005, 22, 75-81.	0.6	9
95	The regulation of vestibular afferent information during monocular vision while standing. Neuroscience Letters, 2008, 441, 253-256.	1.0	9
96	Split-second decisions on a split belt: does simulated limping affect obstacle avoidance?. Experimental Brain Research, 2012, 223, 33-42.	0.7	9
97	Comparison of gait between young adults fitted with the space foot and nondisabled persons. Archives of Physical Medicine and Rehabilitation, 1993, 74, 1369-1376.	0.5	8
98	The kinematics of upper extremity reaching: a reliability study on people with and without shoulder impingement syndrome. BMC Sports Science, Medicine and Rehabilitation, 2010, 2, 8.	0.7	8
99	Reading text messages at different stages of pedestrian circumvention affects strategies for collision avoidance in young and older adults. Gait and Posture, 2020, 76, 290-297.	0.6	8
100	The Organization of Stepping in Patients with Parkinson's Disease: Bradykinesia or Discoordination?. Canadian Journal of Neurological Sciences, 1992, 19, 8-16.	0.3	7
101	A Preliminary Analysis of the Coordination of Reaching, Grasping, and Walking. Perceptual and Motor Skills, 1995, 81, 515-519.	0.6	7
102	On the Design of a Novel Cable-Driven Parallel Robot Capable of Large Rotation About One Axis. Mechanisms and Machine Science, 2018, , 390-401.	0.3	7
103	The Canadian Pediatric Mild Traumatic Brain Injury Common Data Elements Project: Harmonizing Outcomes to Increase Understanding of Pediatric Concussion. Journal of Neurotrauma, 2018, 35, 1849-1857.	1.7	7
104	Limb movements of another pedestrian affect crossing distance but not path planning during virtual over ground circumvention. Neuroscience Letters, 2020, 736, 135278.	1.0	7
105	Comparison of kinetic strategies for avoidance of an obstacle with either the paretic or non-paretic as leading limb in persons post stroke. Gait and Posture, 2015, 42, 329-334.	0.6	6
106	Phone messages affect the detection of approaching pedestrians in healthy young and older adults immersed in a virtual community environment. PLoS ONE, 2019, 14, e0217062.	1.1	6
107	Methodological Insights into the Scientific Development of Design Guidelines for Accessible Urban Pedestrian Infrastructure. Journal of Urban Technology, 2020, 27, 87-105.	2.5	6
108	Mobile phone use impairs stair gait: A pilot study on young adults. Applied Ergonomics, 2020, 84, 103009.	1.7	6

#	Article	IF	CITATIONS
109	Substituting anticipatory locomotor adjustments online is time constrained. Experimental Brain Research, 2018, 236, 1985-1996.	0.7	5
110	Community-dwelling older adults with mild cognitive impairments show subtle visual attention costs when descending stairs. Human Movement Science, 2020, 69, 102561.	0.6	5
111	Dual-Task Abilities During Activities Representative of Daily Life in Community-Dwelling Stroke Survivors: A Pilot Study. Frontiers in Neurology, 2022, 13, 855226.	1.1	5
112	A geometric analysis of muscle mechanical power with applications to human gait. Journal of Biomechanics, 1994, 27, 1189-1193.	0.9	4
113	Disability, Rehabilitation Research and Post-Cartesian Embodied Ontologies – Has the Research Paradigm Changed?. Research in Social Science and Disability, 2014, , 73-102.	0.1	4
114	Visuo-locomotor coordination for direction changes in a manual wheelchair as compared to biped locomotion in healthy subjects. Neuroscience Letters, 2015, 588, 83-87.	1.0	4
115	Visuo-locomotor control in persons with spinal cord injury in a manual or power wheelchair for direction change and obstacle circumvention. Experimental Brain Research, 2017, 235, 2669-2678.	0.7	4
116	A Computer Vision System for Virtual Rehabilitation. , 2017, , .		4
117	Modeling spatial navigation in the presence of dynamic obstacles: a differential games approach. Journal of Neurophysiology, 2018, 119, 990-1004.	0.9	4
118	Development of a virtual reality toolkit to enhance community walking after stroke. , 2019, , .		4
119	Performance during dual-task walking in a corridor after mild traumatic brain injury: A potential functional marker to assist return-to-function decisions. Brain Injury, 2021, 35, 173-179.	0.6	4
120	Body–foot geometries as revealed by perturbed obstacle position with different time constraints. Experimental Brain Research, 2018, 236, 711-720.	0.7	3
121	Poster 7. Archives of Physical Medicine and Rehabilitation, 2003, 84, E7.	0.5	2
122	Proximal lower limb muscle energetics and the adaptation of segment elevation angle phasing for obstacle avoidance. Gait and Posture, 2013, 37, 274-279.	0.6	2
123	Research Priorities for Optimizing Long-term Community Integration after Brain Injury. Canadian Journal of Neurological Sciences, 2018, 45, 643-651.	0.3	2
124	The Switching of Trailing Limb Anticipatory Locomotor Adjustments is Uninfluenced by what the Leading Limb Does, but General Time Constraints Remain. Applied Sciences (Switzerland), 2020, 10, 2256.	1.3	2
125	A prediction model of multiple resource theory for dual task walking. Theoretical Issues in Ergonomics Science, 0, , 1-24.	1.0	2
126	Infographic: treating runners with patellofemoral pain: appropriate education is key. British Journal of Sports Medicine, 2018, 52, 824.2-825.	3.1	1

#	Article	IF	CITATIONS
127	Alterations in dual-task walking persist two months after mild traumatic brain injury in young adults. Journal of Concussion, 2019, 3, 205970021987829.	0.2	1
128	Longitudinal Study on the Detection and Evaluation of Onset Mild Traumatic Brain Injury during Dual Motor and Cognitive Tasks. , 2015, , .		1
129	A neurokinetic view of bi-articular muscles and system constraints. Human Movement Science, 1989, 8, 357-362.	0.6	0
130	The superimposed adjustments for obstacle clearance and level-to-stair transition during normal human gait. Journal of Biomechanics, 1994, 27, 809.	0.9	0
131	Comments on â€~Stepping over an obstacle increases the motions and moments of the joints of the trailing limb in young adults'. Journal of Biomechanics, 1997, 30, 1187.	0.9	0
132	The perspective of rehabilitation health care professionals regarding the clinical utility of a body-environment proximity measurement device. Cogent Medicine, 2019, 6, 1605722.	0.7	0
133	Three dimensional validation of an instrumented handrail for stair gait. Medical Engineering and Physics, 2020, 86, 16-19.	0.8	0