

Bradford J Mcfadyen

List of Publications by Year in descending order

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133
papers

7,336
citations

81743

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60497

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all docs

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docs citations

135
times ranked

7267
citing authors

#	ARTICLE	IF	CITATIONS
1	Dual-Task Abilities During Activities Representative of Daily Life in Community-Dwelling Stroke Survivors: A Pilot Study. <i>Frontiers in Neurology</i> , 2022, 13, 855226.	1.1	5
2	Collision avoidance behaviours when circumventing people of different sizes in various positions and locations. <i>Journal of Motor Behavior</i> , 2021, 53, 166-175.	0.5	16
3	Performance during dual-task walking in a corridor after mild traumatic brain injury: A potential functional marker to assist return-to-function decisions. <i>Brain Injury</i> , 2021, 35, 173-179.	0.6	4
4	Virtual reality-based assessment of cognitive-locomotor interference in healthy young adults. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2021, 18, 53.	2.4	11
5	Methodological Insights into the Scientific Development of Design Guidelines for Accessible Urban Pedestrian Infrastructure. <i>Journal of Urban Technology</i> , 2020, 27, 87-105.	2.5	6
6	Reading text messages at different stages of pedestrian circumvention affects strategies for collision avoidance in young and older adults. <i>Gait and Posture</i> , 2020, 76, 290-297.	0.6	8
7	Community-dwelling older adults with mild cognitive impairments show subtle visual attention costs when descending stairs. <i>Human Movement Science</i> , 2020, 69, 102561.	0.6	5
8	Mobile phone use impairs stair gait: A pilot study on young adults. <i>Applied Ergonomics</i> , 2020, 84, 103009.	1.7	6
9	Limb movements of another pedestrian affect crossing distance but not path planning during virtual over ground circumvention. <i>Neuroscience Letters</i> , 2020, 736, 135278.	1.0	7
10	Three dimensional validation of an instrumented handrail for stair gait. <i>Medical Engineering and Physics</i> , 2020, 86, 16-19.	0.8	0
11	Adding Haptic Feedback to Virtual Environments With a Cable-Driven Robot Improves Upper Limb Spatio-Temporal Parameters During a Manual Handling Task. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020, 28, 2246-2254.	2.7	12
12	The Switching of Trailing Limb Anticipatory Locomotor Adjustments is Uninfluenced by what the Leading Limb Does, but General Time Constraints Remain. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2256.	1.3	2
13	The perspective of rehabilitation health care professionals regarding the clinical utility of a body-environment proximity measurement device. <i>Cogent Medicine</i> , 2019, 6, 1605722.	0.7	0
14	Effects of Age on Obstacle Avoidance while Walking and Deciphering Text versus Audio Phone Messages. <i>Gerontology</i> , 2019, 65, 524-536.	1.4	10
15	Phone messages affect the detection of approaching pedestrians in healthy young and older adults immersed in a virtual community environment. <i>PLoS ONE</i> , 2019, 14, e0217062.	1.1	6
16	Validity of Instrumented Insoles for Step Counting, Posture and Activity Recognition: A Systematic Review. <i>Sensors</i> , 2019, 19, 2438.	2.1	31
17	Design and Accuracy of an Instrumented Insole Using Pressure Sensors for Step Count. <i>Sensors</i> , 2019, 19, 984.	2.1	33
18	Development of a virtual reality toolkit to enhance community walking after stroke. , 2019, , .		4

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19	Alterations in dual-task walking persist two months after mild traumatic brain injury in young adults. <i>Journal of Concussion</i> , 2019, 3, 205970021987829.	0.2	1
20	Body-foot geometries as revealed by perturbed obstacle position with different time constraints. <i>Experimental Brain Research</i> , 2018, 236, 711-720.	0.7	3
21	Is combining gait retraining or an exercise programme with education better than education alone in treating runners with patellofemoral pain? A randomised clinical trial. <i>British Journal of Sports Medicine</i> , 2018, 52, 659-666.	3.1	81
22	On the Design of a Novel Cable-Driven Parallel Robot Capable of Large Rotation About One Axis. <i>Mechanisms and Machine Science</i> , 2018, , 390-401.	0.3	7
23	Repeated split-belt treadmill walking improved gait ability in individuals with chronic stroke: A pilot study. <i>Physiotherapy Theory and Practice</i> , 2018, 34, 81-90.	0.6	30
24	Modeling spatial navigation in the presence of dynamic obstacles: a differential games approach. <i>Journal of Neurophysiology</i> , 2018, 119, 990-1004.	0.9	4
25	Infographic: treating runners with patellofemoral pain: appropriate education is key. <i>British Journal of Sports Medicine</i> , 2018, 52, 824.2-825.	3.1	1
26	Guidelines for Gait Assessments in the Canadian Consortium on Neurodegeneration in Aging (CCNA). <i>Canadian Geriatrics Journal</i> , 2018, 21, 157-165.	0.7	43
27	Research Priorities for Optimizing Long-term Community Integration after Brain Injury. <i>Canadian Journal of Neurological Sciences</i> , 2018, 45, 643-651.	0.3	2
28	Gait Training after Stroke on a Self-Paced Treadmill with and without Virtual Environment Scenarios: A Proof-of-Principle Study. <i>Physiotherapy Canada Physiotherapie Canada</i> , 2018, 70, 221-230.	0.3	12
29	Substituting anticipatory locomotor adjustments online is time constrained. <i>Experimental Brain Research</i> , 2018, 236, 1985-1996.	0.7	5
30	The Canadian Pediatric Mild Traumatic Brain Injury Common Data Elements Project: Harmonizing Outcomes to Increase Understanding of Pediatric Concussion. <i>Journal of Neurotrauma</i> , 2018, 35, 1849-1857.	1.7	7
31	Using dual task walking as an aid to assess executive dysfunction ecologically in neurological populations: A narrative review. <i>Neuropsychological Rehabilitation</i> , 2017, 27, 722-743.	1.0	26
32	Changes in lower limb muscle activity after walking on a split-belt treadmill in individuals post-stroke. <i>Journal of Electromyography and Kinesiology</i> , 2017, 32, 93-100.	0.7	13
33	Footwear characteristics are related to running mechanics in runners with patellofemoral pain. <i>Gait and Posture</i> , 2017, 54, 144-147.	0.6	20
34	Visuo-locomotor control in persons with spinal cord injury in a manual or power wheelchair for direction change and obstacle circumvention. <i>Experimental Brain Research</i> , 2017, 235, 2669-2678.	0.7	4
35	Traumatic brain injury: integrated approaches to improve prevention, clinical care, and research. <i>Lancet Neurology</i> , The, 2017, 16, 987-1048.	4.9	1,571
36	Upper Limb Obstacle Avoidance Behavior in Individuals With Stroke. <i>Neurorehabilitation and Neural Repair</i> , 2017, 31, 133-146.	1.4	28

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37	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. <i>Disability and Rehabilitation: Assistive Technology</i> , 2017, 12, 758-764.	1.3	37
38	A Computer Vision System for Virtual Rehabilitation. , 2017, , .		4
39	Complementary mechanisms for upright balance during walking. <i>PLoS ONE</i> , 2017, 12, e0172215.	1.1	63
40	Acute Physical Exercise Affects Cognitive Functioning in Children With Cerebral Palsy. <i>Pediatric Exercise Science</i> , 2016, 28, 304-311.	0.5	12
41	Executive dysfunction following a mild traumatic brain injury revealed in early adolescence with locomotor-cognitive dual-tasks. <i>Brain Injury</i> , 2016, 30, 1648-1655.	0.6	27
42	Assessing the Perception of Trunk Movements in Military Personnel with Chronic Non-Specific Low Back Pain Using a Virtual Mirror. <i>PLoS ONE</i> , 2015, 10, e0120251.	1.1	16
43	Efficacy of virtual reality-based intervention on balance and mobility disorders post-stroke: a scoping review. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2015, 12, 46.	2.4	133
44	Comparison of kinetic strategies for avoidance of an obstacle with either the paretic or non-paretic as leading limb in persons post stroke. <i>Gait and Posture</i> , 2015, 42, 329-334.	0.6	6
45	Visuo-locomotor coordination for direction changes in a manual wheelchair as compared to biped locomotion in healthy subjects. <i>Neuroscience Letters</i> , 2015, 588, 83-87.	1.0	4
46	Real-time modulation of visual feedback on human full-body movements in a virtual mirror: development and proof-of-concept. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2015, 12, 2.	2.4	24
47	Longitudinal Study on the Detection and Evaluation of Onset Mild Traumatic Brain Injury during Dual Motor and Cognitive Tasks. , 2015, , .		1
48	The division of visual attention affects the transition point from level walking to stair descent in healthy, active older adults. <i>Experimental Gerontology</i> , 2014, 50, 26-33.	1.2	26
49	A Preliminary Study to Identify Locomotor-Cognitive Dual Tasks That Reveal Persistent Executive Dysfunction After Mild Traumatic Brain Injury. <i>Archives of Physical Medicine and Rehabilitation</i> , 2014, 95, 1594-1597.	0.5	43
50	Disability, Rehabilitation Research and Post-Cartesian Embodied Ontologies â€œ Has the Research Paradigm Changed?. <i>Research in Social Science and Disability</i> , 2014, , 73-102.	0.1	4
51	Arm movements during split-belt walking reveal predominant patterns of interlimb coupling. <i>Human Movement Science</i> , 2013, 32, 79-90.	0.6	21
52	Proximal lower limb muscle energetics and the adaptation of segment elevation angle phasing for obstacle avoidance. <i>Gait and Posture</i> , 2013, 37, 274-279.	0.6	2
53	Use of Segmental Coordination Analysis of Nonparetic and Paretic Limbs During Obstacle Clearance in Communityâ€™dwelling Persons After Stroke. <i>PM and R</i> , 2013, 5, 381-391.	0.9	14
54	The detailed measurement of foot clearance by young adults during stair descent. <i>Journal of Biomechanics</i> , 2013, 46, 1400-1402.	0.9	15

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55	Altered Integrated Locomotor and Cognitive Function in Elite Athletes 30 Days Postconcussion. <i>Journal of Head Trauma Rehabilitation</i> , 2013, 28, 293-301.	1.0	77
56	Traumatic brain injury and post-acute decline: what role does environmental enrichment play? A scoping review. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 31.	1.0	48
57	Split-second decisions on a split belt: does simulated limping affect obstacle avoidance?. <i>Experimental Brain Research</i> , 2012, 223, 33-42.	0.7	9
58	Extracting phase-dependent human vestibular reflexes during locomotion using both time and frequency correlation approaches. <i>Journal of Applied Physiology</i> , 2011, 111, 1484-1490.	1.2	39
59	Increased Obstacle Clearance in People with ARCA-1 Results in Part from Voluntary Coordination Changes Between the Thigh and Shank Segments. <i>Cerebellum</i> , 2011, 10, 732-744.	1.4	11
60	Increasing Task Complexity and ICE Hockey Skills of Youth Athletes. <i>Perceptual and Motor Skills</i> , 2011, 112, 29-43.	0.6	14
61	Segmental control for adaptive locomotor adjustments during obstacle clearance in healthy young adults. <i>Experimental Brain Research</i> , 2010, 202, 307-318.	0.7	21
62	The kinematics of upper extremity reaching: a reliability study on people with and without shoulder impingement syndrome. <i>BMC Sports Science, Medicine and Rehabilitation</i> , 2010, 2, 8.	0.7	8
63	Stroke Affects Locomotor Steering Responses to Changing Optic Flow Directions. <i>Neurorehabilitation and Neural Repair</i> , 2010, 24, 457-468.	1.4	26
64	The effects of unsupervised movement training with visual feedback on upper limb kinematic in persons with shoulder impingement syndrome. <i>Journal of Electromyography and Kinesiology</i> , 2010, 20, 939-946.	0.7	18
65	Ageing affects the ability to use optic flow in the control of heading during locomotion. <i>Experimental Brain Research</i> , 2009, 194, 183-190.	0.7	39
66	Effects of walking in a force field for varying durations on aftereffects and on next day performance. <i>Experimental Brain Research</i> , 2009, 199, 145-155.	0.7	34
67	Impact of movement training on upper limb motor strategies in persons with shoulder impingement syndrome. <i>BMC Sports Science, Medicine and Rehabilitation</i> , 2009, 1, 8.	0.7	19
68	Dual task effects for asymmetric stepping on a split-belt treadmill. <i>Gait and Posture</i> , 2009, 30, 340-344.	0.6	31
69	Kinematics of Pointing Movements Made in a Virtual Versus a Physical 3-Dimensional Environment in Healthy and Stroke Subjects. <i>Archives of Physical Medicine and Rehabilitation</i> , 2009, 90, 793-802.	0.5	62
70	Modality-Specific, Multitask Locomotor Deficits Persist Despite Good Recovery After a Traumatic Brain Injury. <i>Archives of Physical Medicine and Rehabilitation</i> , 2009, 90, 1596-1606.	0.5	36
71	Alterations to locomotor navigation in a complex environment at 7 and 30 days following a concussion in an elite athlete. <i>Brain Injury</i> , 2009, 23, 362-369.	0.6	35
72	Head, arm and trunk coordination during reaching in children. <i>Experimental Brain Research</i> , 2008, 188, 237-247.	0.7	32

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73	The regulation of vestibular afferent information during monocular vision while standing. <i>Neuroscience Letters</i> , 2008, 441, 253-256.	1.0	9
74	Characteristics of personal space during obstacle circumvention in physical and virtual environments. <i>Gait and Posture</i> , 2008, 27, 239-247.	0.6	112
75	Upper limb motor strategies in persons with and without shoulder impingement syndrome across different speeds of movement. <i>Clinical Biomechanics</i> , 2008, 23, 1227-1236.	0.5	62
76	The ability of the Biodex Stability System to distinguish level of function in subjects with a second-degree ankle sprain. <i>Clinical Rehabilitation</i> , 2007, 21, 73-81.	1.0	35
77	Side difference in the hip and knee joint moments during sit-to-stand and stand-to-sit tasks in individuals with hemiparesis. <i>Clinical Biomechanics</i> , 2007, 22, 795-804.	0.5	76
78	Navigational strategies during fast walking: A comparison between trained athletes and non-athletes. <i>Gait and Posture</i> , 2007, 26, 539-545.	0.6	16
79	Can measures of cognitive function predict locomotor behaviour in complex environments following a traumatic brain injury?. <i>Brain Injury</i> , 2007, 21, 327-334.	0.6	40
80	Virtual reality environments for post-stroke arm rehabilitation. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2007, 4, 20.	2.4	99
81	Modulation of walking speed by changing optic flow in persons with stroke. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2007, 4, 22.	2.4	119
82	The reliability of three-dimensional scapular attitudes in healthy people and people with shoulder impingement syndrome. <i>BMC Musculoskeletal Disorders</i> , 2007, 8, 49.	0.8	21
83	Visual-vestibular influences on locomotor adjustments for stepping over an obstacle. <i>Experimental Brain Research</i> , 2007, 179, 235-243.	0.7	18
84	Effects of Environmental Demands on Locomotion After Traumatic Brain Injury. <i>Archives of Physical Medicine and Rehabilitation</i> , 2006, 87, 806-813.	0.5	62
85	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. <i>Clinical Biomechanics</i> , 2006, 21, 585-593.	0.5	133
86	The circumvention of obstacles during walking in different environmental contexts: A comparison between older and younger adults. <i>Gait and Posture</i> , 2006, 24, 364-369.	0.6	76
87	A Treadmill and Motion Coupled Virtual Reality System for Gait Training Post-Stroke. <i>Cyberpsychology, Behavior and Social Networking</i> , 2006, 9, 157-162.	2.2	228
88	The Negotiation of Stationary and Moving Obstructions during Walking: Anticipatory Locomotor Adaptations and Preservation of Personal Space. <i>Motor Control</i> , 2005, 9, 242-269.	0.3	166
89	Movement patterns and muscular demands during posterior transfers toward an elevated surface in individuals with spinal cord injury. <i>Spinal Cord</i> , 2005, 43, 74-84.	0.9	35
90	Children use different anticipatory control strategies than adults to circumvent an obstacle in the travel path. <i>Experimental Brain Research</i> , 2005, 167, 119-127.	0.7	56

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91	Vestibular Contributions during Human Locomotor Tasks. Exercise and Sport Sciences Reviews, 2005, 33, 107-113.	1.6	49
92	Effects of physical activity level on unobstructed and obstructed walking in young male adults. Gait and Posture, 2005, 22, 75-81.	0.6	9
93	Is the use of vestibular information weighted differently across the initiation of walking?. Experimental Brain Research, 2004, 157, 407-16.	0.7	20
94	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
95	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
96	When is Vestibular Information Important During Walking?. Journal of Neurophysiology, 2004, 92, 1269-1275.	0.9	117
97	Locomotor adjustments for circumvention of an obstacle in the travel path. Experimental Brain Research, 2003, 152, 409-414.	0.7	80
98	Poster 7. Archives of Physical Medicine and Rehabilitation, 2003, 84, E7.	0.5	2
99	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
100	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
101	Assessing Mobility and Locomotor Coordination after Stroke with the Rise-to-Walk Task. Neurorehabilitation and Neural Repair, 2003, 17, 83-92.	1.4	36
102	Kinematic Adaptations of Spinal Cord-Injured Subjects during Obstructed Walking. Neurorehabilitation and Neural Repair, 2003, 17, 25-31.	1.4	20
103	Residual Effects of a Traumatic Brain Injury on Locomotor Capacity. Journal of Head Trauma Rehabilitation, 2003, 18, 512-525.	1.0	72
104	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
105	Scapular behavior in shoulder impingement syndrome. Archives of Physical Medicine and Rehabilitation, 2002, 83, 60-69.	0.5	239
106	Vestibular contributions across the execution of a voluntary forward step. Experimental Brain Research, 2002, 143, 100-105.	0.7	39
107	The development of coordination for reach-to-grasp movements in children. Experimental Brain Research, 2002, 146, 142-154.	0.7	152
108	Visual-vestibular interactions in postural control during the execution of a dynamic task. Experimental Brain Research, 2002, 146, 490-500.	0.7	45

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109	Anticipatory locomotor control for obstacle avoidance in mid-childhood aged children. <i>Gait and Posture</i> , 2001, 13, 7-16.	0.6	37
110	Magnitude effects of galvanic vestibular stimulation on the trajectory of human gait. <i>Neuroscience Letters</i> , 2000, 279, 157-160.	1.0	92
111	Three-dimensional gait analysis in women with a total hip arthroplasty. <i>Clinical Biomechanics</i> , 2000, 15, 504-515.	0.5	205
112	A method of measuring three-dimensional scapular attitudes using the Optotrak probing system. <i>Clinical Biomechanics</i> , 2000, 15, 1-8.	0.5	32
113	Kinetic and energetic patterns for hindlimb obstacle avoidance during cat locomotion. <i>Experimental Brain Research</i> , 1999, 125, 502-510.	0.7	31
114	Anticipatory locomotor adjustments for accommodating versus avoiding level changes in humans. <i>Experimental Brain Research</i> , 1997, 114, 500-506.	0.7	69
115	Comments on "Stepping over an obstacle increases the motions and moments of the joints of the trailing limb in young adults". <i>Journal of Biomechanics</i> , 1997, 30, 1187.	0.9	0
116	Modification of the sit-to-stand task with the addition of gait initiation. <i>Gait and Posture</i> , 1996, 4, 232-241.	0.6	76
117	Visuomotor control when reaching toward and grasping moving targets. <i>Acta Psychologica</i> , 1996, 92, 17-32.	0.7	52
118	The combined control of locomotion and prehension. <i>Neuroscience Research Communications</i> , 1996, 19, 91-100.	0.2	26
119	A kinematic and kinetic analysis of locomotion during voluntary gait modification in the cat. <i>Experimental Brain Research</i> , 1995, 106, 39-56.	0.7	45
120	A Preliminary Analysis of the Coordination of Reaching, Grasping, and Walking. <i>Perceptual and Motor Skills</i> , 1995, 81, 515-519.	0.6	7
121	A PRELIMINARY ANALYSIS OF THE COORDINATION OF REACHING, GRASPING, AND WALKING. <i>Perceptual and Motor Skills</i> , 1995, 81, 515-519.	0.6	13
122	A geometric analysis of muscle mechanical power with applications to human gait. <i>Journal of Biomechanics</i> , 1994, 27, 1189-1193.	0.9	4
123	The superimposed adjustments for obstacle clearance and level-to-stair transition during normal human gait. <i>Journal of Biomechanics</i> , 1994, 27, 809.	0.9	0
124	Transfer strategies used to rise from a chair in normal and low back pain subjects. <i>Clinical Biomechanics</i> , 1994, 9, 85-92.	0.5	62
125	Anticipatory locomotor adjustments for avoiding visible, fixed obstacles of varying proximity. <i>Human Movement Science</i> , 1993, 12, 259-272.	0.6	40
126	Comparison of gait between young adults fitted with the space foot and nondisabled persons. <i>Archives of Physical Medicine and Rehabilitation</i> , 1993, 74, 1369-1376.	0.5	8

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127	Running gait impulse asymmetries in below-knee amputees. <i>Prosthetics and Orthotics International</i> , 1992, 16, 19-24.	0.5	45
128	The Organization of Stepping in Patients with Parkinson's Disease: Bradykinesia or Discoordination?. <i>Canadian Journal of Neurological Sciences</i> , 1992, 19, 8-16.	0.3	7
129	Adaptability of the CNS in Human Walking. <i>Advances in Psychology</i> , 1991, 78, 127-144.	0.1	12
130	A neurokinetic view of bi-articular muscles and system constraints. <i>Human Movement Science</i> , 1989, 8, 357-362.	0.6	0
131	An integrated biomechanical analysis of normal stair ascent and descent. <i>Journal of Biomechanics</i> , 1988, 21, 733-744.	0.9	570
132	Normative childhood EMG gait patterns. <i>Journal of Orthopaedic Research</i> , 1987, 5, 283-295.	1.2	31
133	A prediction model of multiple resource theory for dual task walking. <i>Theoretical Issues in Ergonomics Science</i> , 0, , 1-24.	1.0	2