

# Joyce Fung

## List of Publications by Year in descending order

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Version: 2024-02-01

117  
papers

4,636  
citations

109321

35  
h-index

106344

65  
g-index

121  
all docs

121  
docs citations

121  
times ranked

4274  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of robot-assisted therapy on stroke rehabilitation in upper limbs: Systematic review and meta-analysis of the literature. <i>Journal of Rehabilitation Research and Development</i> , 2012, 49, 479.	1.6	308
2	EMG Responses to Maintain Stance During Multidirectional Surface Translations. <i>Journal of Neurophysiology</i> , 1998, 80, 1939-1950.	1.8	238
3	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
4	Postural adaptation to walking on inclined surfaces: I. Normal strategies. <i>Gait and Posture</i> , 2002, 15, 64-74.	1.4	227
5	Canadian Stroke Best Practice Recommendations: Rehabilitation, Recovery, and Community Participation following Stroke. <i>Part One: Rehabilitation and Recovery Following Stroke</i> ; 6th Edition Update 2019. <i>International Journal of Stroke</i> , 2020, 15, 763-788.	5.9	194
6	Faster Is Better. <i>Stroke</i> , 2004, 35, 2543-2548.	2.0	188
7	Effect of Stance Width on Multidirectional Postural Responses. <i>Journal of Neurophysiology</i> , 2001, 85, 559-570.	1.8	153
8	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.	4.6	133
9	Modulation of walking speed by changing optic flow in persons with stroke. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2007, 4, 22.	4.6	119
10	Posture-movement changes following repetitive motion-induced shoulder muscle fatigue. <i>Journal of Electromyography and Kinesiology</i> , 2009, 19, 1043-1052.	1.7	116
11	Identification of intrinsic and reflex ankle stiffness components in stroke patients. <i>Experimental Brain Research</i> , 2005, 165, 422-434.	1.5	114
12	Characteristics of personal space during obstacle circumvention in physical and virtual environments. <i>Gait and Posture</i> , 2008, 27, 239-247.	1.4	112
13	A Multicenter Trial of a Footdrop Stimulator Controlled by a Tilt Sensor. <i>Neurorehabilitation and Neural Repair</i> , 2006, 20, 371-379.	2.9	110
14	Adaptation of the walking pattern to uphill walking in normal and spinal-cord injured subjects. <i>Experimental Brain Research</i> , 1999, 126, 359-368.	1.5	108
15	Cognitive Load and Dual-Task Performance During Locomotion Poststroke: A Feasibility Study Using a Functional Virtual Environment. <i>Physical Therapy</i> , 2010, 90, 252-260.	2.4	107
16	Effect of a Community-Based Argentine Tango Dance Program on Functional Balance and Confidence in Older Adults. <i>Journal of Aging and Physical Activity</i> , 2008, 16, 435-453.	1.0	105
17	Ageing and selective sensorimotor strategies in the regulation of upright balance. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2007, 4, 19.	4.6	97
18	Visual vertigo analogue scale: An assessment questionnaire for visual vertigo. <i>Journal of Vestibular Research: Equilibrium and Orientation</i> , 2011, 21, 153-159.	2.0	97

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19	The role of rehabilitation in the recovery of walking in the neurological population. <i>Current Opinion in Neurology</i> , 2001, 14, 735-740.	3.6	94
20	High-Intensity Interval Training After Stroke: An Opportunity to Promote Functional Recovery, Cardiovascular Health, and Neuroplasticity. <i>Neurorehabilitation and Neural Repair</i> , 2018, 32, 543-556.	2.9	89
21	Weight Support and Balance During Perturbed Stance in the Chronic Spinal Cat. <i>Journal of Neurophysiology</i> , 1999, 82, 3066-3081.	1.8	84
22	A Single Bout of High-Intensity Interval Training Improves Motor Skill Retention in Individuals With Stroke. <i>Neurorehabilitation and Neural Repair</i> , 2017, 31, 726-735.	2.9	81
23	Time-dependent adaptations to posture and movement characteristics during the development of repetitive reaching induced fatigue. <i>Experimental Brain Research</i> , 2011, 211, 133-143.	1.5	73
24	Physiological evaluation of gait disturbances post stroke. <i>Clinical Neurophysiology</i> , 2007, 118, 717-729.	1.5	70
25	Effects of bilateral Achilles tendon vibration on postural orientation and balance during standing. <i>Clinical Neurophysiology</i> , 2007, 118, 2456-2467.	1.5	64
26	Gaze and Postural Reorientation in the Control of Locomotor Steering After Stroke. <i>Neurorehabilitation and Neural Repair</i> , 2009, 23, 256-266.	2.9	63
27	Ageing affects coordination of rapid head motions with trunk and pelvis movements during standing and walking. <i>Gait and Posture</i> , 2006, 24, 62-69.	1.4	62
28	Musculature and biomechanics of the trunk in the maintenance of upright posture. <i>Journal of Electromyography and Kinesiology</i> , 2008, 18, 815-828.	1.7	58
29	Pain catastrophizing and trunk muscle activation during walking in patients with chronic low back pain. <i>Gait and Posture</i> , 2016, 49, 73-77.	1.4	57
30	Effects of plantar cutaneo-muscular and tendon vibration on posture and balance during quiet and perturbed stance. <i>Human Movement Science</i> , 2011, 30, 153-171.	1.4	54
31	Stroke affects the coordination and stabilization of head, thorax and pelvis during voluntary horizontal head motions performed in walking. <i>Clinical Neurophysiology</i> , 2005, 116, 101-111.	1.5	43
32	Clinical Evaluation of Dynamic Visual Acuity in Subjects With Unilateral Vestibular Hypofunction. <i>Otology and Neurotology</i> , 2009, 30, 368-372.	1.3	41
33	Attributes of Quiet Stance in the Chronic Spinal Cat. <i>Journal of Neurophysiology</i> , 1999, 82, 3056-3065.	1.8	39
34	Ageing affects the ability to use optic flow in the control of heading during locomotion. <i>Experimental Brain Research</i> , 2009, 194, 183-190.	1.5	39
35	The quest to apply VR technology to rehabilitation: tribulations and treasures. <i>Journal of Vestibular Research: Equilibrium and Orientation</i> , 2017, 27, 1-5.	2.0	39
36	Postural responses triggered by multidirectional leg lifts and surface tilts. <i>Experimental Brain Research</i> , 2005, 165, 152-166.	1.5	35

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37	Old age affects gaze and postural coordination. <i>Gait and Posture</i> , 2011, 33, 227-232.	1.4	35
38	Stroke Affects the Coordination of Gaze and Posture During Preplanned Turns While Walking. <i>Neurorehabilitation and Neural Repair</i> , 2007, 21, 62-67.	2.9	34
39	Impact of aging on visual reweighting during locomotion. <i>Clinical Neurophysiology</i> , 2012, 123, 1422-1428.	1.5	33
40	Postural adjustments to voluntary head motions during standing are modified following stroke. <i>Clinical Biomechanics</i> , 2003, 18, 832-842.	1.2	32
41	Can acute low back pain result from segmental spinal buckling during sub-maximal activities? A review of the current literature. <i>Manual Therapy</i> , 2005, 10, 14-20.	1.6	32
42	Steering behaviour can be modulated by different optic flows during walking. <i>Neuroscience Letters</i> , 2008, 436, 96-101.	2.1	32
43	Anxiety among individuals with visual vertigo and vestibulopathy. <i>Disability and Rehabilitation</i> , 2015, 37, 2197-2202.	1.8	31
44	A simple method to estimate force plate inertial components in a moving surface. <i>Journal of Biomechanics</i> , 2004, 37, 1177-1180.	2.1	30
45	Stroke Affects Locomotor Steering Responses to Changing Optic Flow Directions. <i>Neurorehabilitation and Neural Repair</i> , 2010, 24, 457-468.	2.9	26
46	Virtual Reality-Based Navigation Task to Reveal Obstacle Avoidance Performance in Individuals With Visuospatial Neglect. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2015, 23, 179-188.	4.9	25
47	Sensorimotor enhancement with a mixed reality system for balance and mobility rehabilitation. , 2011, 2011, 6753-7.		24
48	Cortical mechanisms underlying sensorimotor enhancement promoted by walking with haptic inputs in a virtual environment. <i>Progress in Brain Research</i> , 2015, 218, 313-330.	1.4	24
49	Interactive virtual reality game-based rehabilitation for stroke patients. , 2013, , .		22
50	Postural adaptation to walking on inclined surfaces: II. Strategies following spinal cord injury. <i>Clinical Neurophysiology</i> , 2006, 117, 1273-1282.	1.5	21
51	Whiplash-associated disorders affect postural reactions to antero-posterior support surface translations during sitting. <i>Gait and Posture</i> , 2009, 29, 603-611.	1.4	19
52	Posture-movement responses to stance perturbations and upper limb fatigue during a repetitive pointing task. <i>Human Movement Science</i> , 2013, 32, 618-632.	1.4	19
53	Creating a rehabilitation living lab to optimize participation and inclusion for persons with physical disabilities. <i>Alter</i> , 2014, 8, 151-157.	0.9	19
54	Validity and Responsiveness of the Visual Vertigo Analogue Scale. <i>Journal of Neurologic Physical Therapy</i> , 2019, 43, 117-121.	1.4	19

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55	Real-Time Avatar-Based Feedback to Enhance the Symmetry of Spatiotemporal Parameters After Stroke: Instantaneous Effects of Different Avatar Views. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020, 28, 878-887.	4.9	19
56	Evidence for the use of rotational optic flow cues for locomotor steering in healthy older adults. <i>Journal of Neurophysiology</i> , 2011, 106, 1089-1096.	1.8	18
57	Expression, adverse prognostic significance and therapeutic small molecule inhibition of Polo-like kinase 1 in multiple myeloma. <i>Leukemia Research</i> , 2011, 35, 1637-1643.	0.8	14
58	Use of Segmental Coordination Analysis of Nonparetic and Paretic Limbs During Obstacle Clearance in Community-Dwelling Persons After Stroke. <i>PM and R</i> , 2013, 5, 381-391.	1.6	14
59	An Exploratory Study on the Effect of Pain Interference and Attentional Interference on Neuromuscular Responses During Rapid Arm Flexion Movements. <i>Clinical Journal of Pain</i> , 2013, 29, 265-275.	1.9	13
60	Dynamic clearance measure to evaluate locomotor and perceptuo-motor strategies used for obstacle circumvention in a virtual environment. <i>Human Movement Science</i> , 2015, 40, 359-371.	1.4	13
61	Adaptation and post-adaptation effects of haptic forces on locomotion in healthy young adults. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2018, 15, 20.	4.6	13
62	The effect of light touch on balance control during overground walking in healthy young adults. <i>Heliyon</i> , 2017, 3, e00484.	3.2	12
63	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.	0.6	12
64	Development, Implementation, and Clinician Adherence to a Standardized Assessment Toolkit for Sensorimotor Rehabilitation after Stroke. <i>Physiotherapy Canada Physiotherapie Canada</i> , 2019, 71, 43-55.	0.6	11
65	An Instrumented Cane Devised for Gait Rehabilitation and Research. <i>Journal, Physical Therapy Education</i> , 2011, 25, 36-41.	0.7	11
66	Locomotor circumvention strategies are altered by stroke: I. Obstacle clearance. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2017, 14, 56.	4.6	10
67	Effects of Age on Obstacle Avoidance while Walking and Deciphering Text versus Audio Phone Messages. <i>Gerontology</i> , 2019, 65, 524-536.	2.8	10
68	Creating an inclusive mall environment with the PRECEDE-PROCEED model: a living lab case study. <i>Disability and Rehabilitation</i> , 2017, 39, 2198-2206.	1.8	9
69	Gait and balance training using virtual reality is more effective for improving gait and balance ability after stroke than conventional training without virtual reality [commentary]. <i>Journal of Physiotherapy</i> , 2017, 63, 114.	1.7	9
70	Direction-dependent neck and trunk postural reactions during sitting. <i>Journal of Electromyography and Kinesiology</i> , 2011, 21, 904-912.	1.7	8
71	VibeWalk: Foot-based tactons during walking and quiet stance. , 2017, , .		8
72	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.	1.4	8

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73	Multisensory control of a straight locomotor trajectory. Journal of Vestibular Research: Equilibrium and Orientation, 2017, 27, 17-25.	2.0	7
74	The influence of visual vertigo and vestibulopathy on oculomotor responses. Journal of Vestibular Research: Equilibrium and Orientation, 2014, 24, 305-311.	2.0	6
75	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.	1.4	6
76	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.	2.5	6
77	Slip-Fall Predictors in Community-Dwelling, Ambulatory Stroke Survivors: A Cross-sectional Study. Journal of Neurologic Physical Therapy, 2020, 44, 248-255.	1.4	6
78	Development of a force-sensing cane instrumented within a treadmill-based virtual reality locomotor system. , 2009, , .		5
79	Augmented feedback for learning single-legged stance on a slackline. , 2013, , .		5
80	The effects of haptic forces on locomotion and posture in post-stroke and elderly adults. , 2015, , .		4
81	A novel approach to integrate VR exer-games for stroke rehabilitation: Evaluating the implementation of a "games room"™. , 2017, , .		4
82	Modeling spatial navigation in the presence of dynamic obstacles: a differential games approach. Journal of Neurophysiology, 2018, 119, 990-1004.	1.8	4
83	Amount and Content of Sensorimotor Therapy Delivered in Three Stroke Rehabilitation Units in Quebec, Canada. Physiotherapy Canada Physiotherapie Canada, 2018, 70, 120-132.	0.6	4
84	Development of a virtual reality toolkit to enhance community walking after stroke. , 2019, , .		4
85	Virtual Reality Reveals Mechanisms of Balance and Locomotor Impairments. Virtual Reality Technologies for Health and Clinical Applications, 2014, , 169-202.	0.8	4
86	Rehabilitation Supported by Technology: Protocol for an International Cocreation and User Experience Study. JMIR Research Protocols, 2022, 11, e34537.	1.0	4
87	Intensity matters: protocol for a randomized controlled trial exercise intervention for individuals with chronic stroke. Trials, 2022, 23, .	1.6	4
88	Locomotor circumvention strategies are altered by stroke: II. Postural Coordination. Journal of NeuroEngineering and Rehabilitation, 2017, 14, 57.	4.6	3
89	Robot-Assisted Reaching Performance of Chronic Stroke and Healthy Individuals in a Virtual Versus a Physical Environment: A Pilot Study. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2019, 27, 1273-1281.	4.9	3
90	Editorial: Current State of Postural Research - Beyond Automatic Behavior. Frontiers in Neurology, 2019, 10, 1160.	2.4	3

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91	Biomedical Research and Informatics Living Laboratory for Innovative Advances of New Technologies in Community Mobility Rehabilitation: Protocol for Evaluation and Rehabilitation of Mobility Across Continuums of Care. JMIR Research Protocols, 2022, 11, e12506.	1.0	3
92	A VR-haptic locomotor system to retrain anticipatory postural adjustments post stroke. , 2008, , .		2
93	Perceptual and navigational strategies for obstacle circumvention in a virtual environment. , 2011, , .		2
94	A research protocol exploring the use of haptic forces for stroke rehabilitation. , 2013, , .		2
95	The effects of a robot-controlled haptic leash compared with an instrumented cane on gait and posture in post-stroke and older adults. , 2017, , .		2
96	Recovery of Sensorimotor Functional Outcomes at Discharge from In-Patient Rehabilitation in Three Stroke Units in the Province of Quebec. Physiotherapy Canada Physiotherapie Canada, 2020, 72, 158-168.	0.6	2
97	Obstacle Avoidance and Dual-Tasking During Reaching While Standing in Patients With Mild Chronic Stroke. Neurorehabilitation and Neural Repair, 2021, 35, 915-928.	2.9	2
98	Dual task performance within a functional virtual environment. , 2007, , .		1
99	A paradigm to assess postural responses triggered by anteroposterior translations in healthy seated individuals. Gait and Posture, 2009, 30, 417-423.	1.4	1
100	Poster 147: Benefits of Home-Based Balance Exercises for Visually Impaired Seniors. Archives of Physical Medicine and Rehabilitation, 2010, 91, e49-e50.	0.9	1
101	Virtual environments to assess perceptuomotor factors that influence obstacle circumvention in the post-stroke population. , 2017, , .		1
102	Robot-assisted arm training in physical and virtual environments: A case study of long-term chronic stroke. , 2017, , .		1
103	Effects of real-time visual feedback in the form of a virtual avatar on symmetry and other parameters of gait post stroke. , 2019, , .		1
104	An innovative visuolocomotor training program for people on waiting list for vestibular rehabilitation. , 2019, , .		1
105	The Effects of a Virtual Environment and Robot-Generated Haptic Forces on the Coordination of the Lower Limb During Gait in Chronic Stroke Using Planar and 3D Phase Diagrams. , 2019, , .		1
106	Walking with robot-generated haptic forces in a virtual environment: a new approach to analyze lower limb coordination. Journal of NeuroEngineering and Rehabilitation, 2021, 18, 136.	4.6	1
107	Adding Light Touch While Walking in Older Adults: Biomechanical and Neuromotor Effects. Journal of Aging and Physical Activity, 2020, 28, 680-685.	1.0	1
108	Is extra-retinal information needed to control steering of locomotion in presence of a rotational optic flow?. , 2008, , .		0

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109	*Poster 67: Enhanced Somatosensory Input for Gait Rehabilitation Poststroke. Archives of Physical Medicine and Rehabilitation, 2010, 91, e25.	0.9	0
110	Poster 84: Stroke Affects the Ability to Adapt to Different Cognitive Demands During Walking. Archives of Physical Medicine and Rehabilitation, 2010, 91, e30.	0.9	0
111	*Poster 86: Haptic Forces Applied Through an Instrumented Cane During Self-Paced Treadmill Walking Poststroke. Archives of Physical Medicine and Rehabilitation, 2010, 91, e30-e31.	0.9	0
112	Poster 95: Visual Vertigo Analog Scale as a New Instrument for Assessing Visual Vertigo. Archives of Physical Medicine and Rehabilitation, 2010, 91, e33-e34.	0.9	0
113	Poster 150: Stabilizing Properties of Plantar Cutaneo-Muscular and Tendon Vibrations During Upright Standing. Archives of Physical Medicine and Rehabilitation, 2010, 91, e50-e51.	0.9	0
114	Poster 174: Old Age Reduces the Ability to Reorient Locomotor Trajectories Based on Visual Information. Archives of Physical Medicine and Rehabilitation, 2010, 91, e58.	0.9	0
115	Optic flow in a virtual environment can impact on locomotor steering post stroke. , 2011, , .		0
116	Processing words in the real world: A protocol for investigating the dual-task costs of making lexicality judgements while walking in young and older adults. , 2019, , .		0
117	Chest wall kinematics measured during inspiratory threshold loading, deep breathing maneuvers and CO2 rebreathing in individuals post-stroke.. , 2018, , .		0