Joyce Fung

List of Publications by Year in descending order

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117	4,636	109137	106150
papers	citations	35 h-index	65 g-index

121	121	121	4274
all docs	docs citations	times ranked	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. Journal of Rehabilitation Research and Development, 2012, 49, 479.	1.6	308
2	EMG Responses to Maintain Stance During Multidirectional Surface Translations. Journal of Neurophysiology, 1998, 80, 1939-1950.	0.9	238
3	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
4	Postural adaptation to walking on inclined surfaces: I. Normal strategies. Gait and Posture, 2002, 15, 64-74.	0.6	227
5	Canadian Stroke Best Practice Recommendations: Rehabilitation, Recovery, and Community Participation following Stroke. Part One: Rehabilitation and Recovery Following Stroke; 6th Edition Update 2019. International Journal of Stroke, 2020, 15, 763-788.	2.9	194
6	Faster Is Better. Stroke, 2004, 35, 2543-2548.	1.0	188
7	Effect of Stance Width on Multidirectional Postural Responses. Journal of Neurophysiology, 2001, 85, 559-570.	0.9	153
8	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
9	Modulation of walking speed by changing optic flow in persons with stroke. Journal of NeuroEngineering and Rehabilitation, 2007, 4, 22.	2.4	119
10	Posture-movement changes following repetitive motion-induced shoulder muscle fatigue. Journal of Electromyography and Kinesiology, 2009, 19, 1043-1052.	0.7	116
11	Identification of intrinsic and reflex ankle stiffness components in stroke patients. Experimental Brain Research, 2005, 165, 422-434.	0.7	114
12	Characteristics of personal space during obstacle circumvention in physical and virtual environments. Gait and Posture, 2008, 27, 239-247.	0.6	112
13	A Multicenter Trial of a Footdrop Stimulator Controlled by a Tilt Sensor. Neurorehabilitation and Neural Repair, 2006, 20, 371-379.	1.4	110
14	Adaptation of the walking pattern to uphill walking in normal and spinal-cord injured subjects. Experimental Brain Research, 1999, 126, 359-368.	0.7	108
15	Cognitive Load and Dual-Task Performance During Locomotion Poststroke: A Feasibility Study Using a Functional Virtual Environment. Physical Therapy, 2010, 90, 252-260.	1.1	107
16	Effect of a Community-Based Argentine Tango Dance Program on Functional Balance and Confidence in Older Adults. Journal of Aging and Physical Activity, 2008, 16, 435-453.	0.5	105
17	Aging and selective sensorimotor strategies in the regulation of upright balance. Journal of NeuroEngineering and Rehabilitation, 2007, 4, 19.	2.4	97
18	Visual vertigo analogue scale: An assessment questionnaire for visual vertigo. Journal of Vestibular Research: Equilibrium and Orientation, 2011, 21, 153-159.	0.8	97

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19	The role of rehabilitation in the recovery of walking in the neurological population. Current Opinion in Neurology, 2001, 14, 735-740.	1.8	94
20	High-Intensity Interval Training After Stroke: An Opportunity to Promote Functional Recovery, Cardiovascular Health, and Neuroplasticity. Neurorehabilitation and Neural Repair, 2018, 32, 543-556.	1.4	89
21	Weight Support and Balance During Perturbed Stance in the Chronic Spinal Cat. Journal of Neurophysiology, 1999, 82, 3066-3081.	0.9	84
22	A Single Bout of High-Intensity Interval Training Improves Motor Skill Retention in Individuals With Stroke. Neurorehabilitation and Neural Repair, 2017, 31, 726-735.	1.4	81
23	Time-dependent adaptations to posture and movement characteristics during the development of repetitive reaching induced fatigue. Experimental Brain Research, 2011, 211, 133-143.	0.7	73
24	Physiological evaluation of gait disturbances post stroke. Clinical Neurophysiology, 2007, 118, 717-729.	0.7	70
25	Effects of bilateral Achilles tendon vibration on postural orientation and balance during standing. Clinical Neurophysiology, 2007, 118, 2456-2467.	0.7	64
26	Gaze and Postural Reorientation in the Control of Locomotor Steering After Stroke. Neurorehabilitation and Neural Repair, 2009, 23, 256-266.	1.4	63
27	Aging affects coordination of rapid head motions with trunk and pelvis movements during standing and walking. Gait and Posture, 2006, 24, 62-69.	0.6	62
28	Musculature and biomechanics of the trunk in the maintenance of upright posture. Journal of Electromyography and Kinesiology, 2008, 18, 815-828.	0.7	58
29	Pain catastrophizing and trunk muscle activation during walking in patients with chronic low back pain. Gait and Posture, 2016, 49, 73-77.	0.6	57
30	Effects of plantar cutaneo-muscular and tendon vibration on posture and balance during quiet and perturbed stance. Human Movement Science, 2011, 30, 153-171.	0.6	54
31	Stroke affects the coordination and stabilization of head, thorax and pelvis during voluntary horizontal head motions performed in walking. Clinical Neurophysiology, 2005, 116, 101-111.	0.7	43
32	Clinical Evaluation of Dynamic Visual Acuity in Subjects With Unilateral Vestibular Hypofunction. Otology and Neurotology, 2009, 30, 368-372.	0.7	41
33	Attributes of Quiet Stance in the Chronic Spinal Cat. Journal of Neurophysiology, 1999, 82, 3056-3065.	0.9	39
34	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
35	The quest to apply VR technology to rehabilitation: tribulations and treasures. Journal of Vestibular Research: Equilibrium and Orientation, 2017, 27, 1-5.	0.8	39
36	Postural responses triggered by multidirectional leg lifts and surface tilts. Experimental Brain Research, 2005, 165, 152-166.	0.7	35

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37	Old age affects gaze and postural coordination. Gait and Posture, 2011, 33, 227-232.	0.6	35
38	Stroke Affects the Coordination of Gaze and Posture During Preplanned Turns While Walking. Neurorehabilitation and Neural Repair, 2007, 21, 62-67.	1.4	34
39	Impact of aging on visual reweighting during locomotion. Clinical Neurophysiology, 2012, 123, 1422-1428.	0.7	33
40	Postural adjustments to voluntary head motions during standing are modified following stroke. Clinical Biomechanics, 2003, 18, 832-842.	0.5	32
41	Can acute low back pain result from segmental spinal buckling during sub-maximal activities? A review of the current literature. Manual Therapy, 2005, 10, 14-20.	1.6	32
42	Steering behaviour can be modulated by different optic flows during walking. Neuroscience Letters, 2008, 436, 96-101.	1.0	32
43	Anxiety among individuals with visual vertigo and vestibulopathy. Disability and Rehabilitation, 2015, 37, 2197-2202.	0.9	31
44	A simple method to estimate force plate inertial components in a moving surface. Journal of Biomechanics, 2004, 37, 1177-1180.	0.9	30
45	Stroke Affects Locomotor Steering Responses to Changing Optic Flow Directions. Neurorehabilitation and Neural Repair, 2010, 24, 457-468.	1.4	26
46	Virtual Reality-Based Navigation Task to Reveal Obstacle Avoidance Performance in Individuals With Visuospatial Neglect. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2015, 23, 179-188.	2.7	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. Progress in Brain Research, 2015, 218, 313-330.	0.9	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. Clinical Neurophysiology, 2006, 117, 1273-1282.	0.7	21
51	Whiplash-associated disorders affect postural reactions to antero-posterior support surface translations during sitting. Gait and Posture, 2009, 29, 603-611.	0.6	19
52	Posture-movement responses to stance perturbations and upper limb fatigue during a repetitive pointing task. Human Movement Science, 2013, 32, 618-632.	0.6	19
53	Creating a rehabilitation living lab to optimize participation and inclusion for persons with physical disabilities. Alter, 2014, 8, 151-157.	1.0	19
54	Validity and Responsiveness of the Visual Vertigo Analogue Scale. Journal of Neurologic Physical Therapy, 2019, 43, 117-121.	0.7	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. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 878-887.	2.7	19
56	Evidence for the use of rotational optic flow cues for locomotor steering in healthy older adults. Journal of Neurophysiology, 2011, 106, 1089-1096.	0.9	18
57	Expression, adverse prognostic significance and therapeutic small molecule inhibition of Polo-like kinase 1 in multiple myeloma. Leukemia Research, 2011, 35, 1637-1643.	0.4	14
58	Use of Segmental Coordination Analysis of Nonparetic and Paretic Limbs During Obstacle Clearance in Communityâ€Dwelling Persons After Stroke. PM and R, 2013, 5, 381-391.	0.9	14
59	An Exploratory Study on the Effect of Pain Interference and Attentional Interference on Neuromuscular Responses During Rapid Arm Flexion Movements. Clinical Journal of Pain, 2013, 29, 265-275.	0.8	13
60	Dynamic clearance measure to evaluate locomotor and perceptuo-motor strategies used for obstacle circumvention in a virtual environment. Human Movement Science, 2015, 40, 359-371.	0.6	13
61	Adaptation and post-adaptation effects of haptic forces on locomotion in healthy young adults. Journal of NeuroEngineering and Rehabilitation, 2018, 15, 20.	2.4	13
62	The effect of light touch on balance control during overground walking in healthy young adults. Heliyon, 2017, 3, e00484.	1.4	12
63	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
64	Development, Implementation, and Clinician Adherence to a Standardized Assessment Toolkit for Sensorimotor Rehabilitation after Stroke. Physiotherapy Canada Physiotherapie Canada, 2019, 71, 43-55.	0.3	11
65	An Instrumented Cane Devised for Gait Rehabilitation and Research. Journal, Physical Therapy Education, 2011, 25, 36-41.	0.3	11
66	Locomotor circumvention strategies are altered by stroke: I. Obstacle clearance. Journal of NeuroEngineering and Rehabilitation, 2017, 14, 56.	2.4	10
67	Effects of Age on Obstacle Avoidance while Walking and Deciphering Text versus Audio Phone Messages. Gerontology, 2019, 65, 524-536.	1.4	10
68	Creating an inclusive mall environment with the PRECEDE-PROCEED model: a living lab case study. Disability and Rehabilitation, 2017, 39, 2198-2206.	0.9	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]. Journal of Physiotherapy, 2017, 63, 114.	0.7	9
70	Direction-dependent neck and trunk postural reactions during sitting. Journal of Electromyography and Kinesiology, 2011, 21, 904-912.	0.7	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. Gait and Posture, 2020, 76, 290-297.	0.6	8

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73	Multisensory control of a straight locomotor trajectory. Journal of Vestibular Research: Equilibrium and Orientation, 2017, 27, 17-25.	0.8	7
74	The influence of visual vertigo and vestibulopathy on oculomotor responses. Journal of Vestibular Research: Equilibrium and Orientation, 2014, 24, 305-311.	0.8	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.	0.6	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.	1.1	6
77	Slip-Fall Predictors in Community-Dwelling, Ambulatory Stroke Survivors: A Cross-sectional Study. Journal of Neurologic Physical Therapy, 2020, 44, 248-255.	0.7	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 â€˜games roomâ€™. , 2017, , .		4
82	Modeling spatial navigation in the presence of dynamic obstacles: a differential games approach. Journal of Neurophysiology, 2018, 119, 990-1004.	0.9	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.	0.3	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.	0.5	4
87	Intensity matters: protocol for a randomized controlled trial exercise intervention for individuals with chronic stroke. Trials, 2022, 23, .	0.7	4
88	Locomotor circumvention strategies are altered by stroke: II. Postural Coordination. Journal of NeuroEngineering and Rehabilitation, 2017, 14, 57.	2.4	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.	2.7	3
90	Editorial: Current State of Postural Research - Beyond Automatic Behavior. Frontiers in Neurology, 2019, 10, 1160.	1.1	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.	0.5	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.	0.3	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.	1.4	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.	0.6	1
100	Poster 147: Benefits of Home-Based Balance Exercises for Visually Impaired Seniors. Archives of Physical Medicine and Rehabilitation, 2010, 91, e49-e50.	0.5	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.	2.4	1
107	Adding Light Touch While Walking in Older Adults: Biomechanical and Neuromotor Effects. Journal of Aging and Physical Activity, 2020, 28, 680-685.	0.5	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.	0.5	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.	0.5	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.	0.5	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.	0.5	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.	0.5	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.	0.5	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