Yi-Chung Pai

List of Publications by Year
in descending order

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		218677	223800
48	2,697	26	46
papers	citations	h-index	g-index

48	48	48	1351
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Center of mass velocity-position predictions for balance control. Journal of Biomechanics, 1997, 30, 347-354.	2.1	616
2	Static versus dynamic predictions of protective stepping following waistâ€“pull perturbations in young and older adults. Journal of Biomechanics, 1998, 31, 1111-1118.	2.1	155
3	Perturbation Training Can Reduce Community-Dwelling Older Adults' Annual Fall Risk: A Randomized Controlled Trial. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2014, 69, 1586-1594.	3.6	144
4	Simulated movement termination for balance recovery: can movement strategies be sought to maintain stability in the presence of slipping or forced sliding?. Journal of Biomechanics, 1999, 32, 779-786.	2.1	138
5	Repeated-Slip Training: An Emerging Paradigm for Prevention of Slip-Related Falls Among Older Adults. Physical Therapy, 2007, 87, 1478-1491.	2.4	115
6	Automatic recognition of falls in gait-slip training: Harness load cell based criteria. Journal of Biomechanics, 2011, 44, 2243-2249.	2.1	109
7	Inoculation Against Falls: Rapid Adaptation by Young and Older Adults to Slips During Daily Activities. Archives of Physical Medicine and Rehabilitation, 2010, 91, 452-459.	0.9	102
8	Learning to Resist Gait-Slip Falls: Long-Term Retention in Community-Dwelling Older Adults. Archives of Physical Medicine and Rehabilitation, 2012, 93, 557-564.	0.9	102
9	Learning from laboratory-induced falling: long-term motor retention among older adults. Age, 2014, 36, 9640.	3.0	95
10	Role of stability and limb support in recovery against a fall following a novel slip induced in different daily activities. Journal of Biomechanics, 2009, 42, 1903-1908.	2.1	94
11	Dynamic Gait Stability, Clinical Correlates, and Prognosis of Falls Among Community-Dwelling Older Adults. Archives of Physical Medicine and Rehabilitation, 2011, 92, 799-805.	0.9	91
12	Predicted threshold against backward balance loss following a slip in gait. Journal of Biomechanics, 2008, 41, 1823-1831.	2.1	73
13	Generalization of treadmill-slip training to prevent a fall following a sudden (novel) slip in over-ground walking. Journal of Biomechanics, 2013, 46, 63-69.	2.1	73
14	Young and Older Adults Exhibit Proactive and Reactive Adaptations to Repeated Slip Exposure. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2004, 59, M494-M502.	3.6	69
15	Predicted threshold against backward balance loss in gait. Journal of Biomechanics, 2007, 40, 804-811.	2.1	61
16	Deficient limb support is a major contributor to age differences in falling. Journal of Biomechanics, 2007, 40, 1318-1325.	2.1	48
17	Retention of the â€œfirst-trial effectâ€•in gait-slip among community-living older adults. GeroScience, 2017, 39, 93-102.	4.6	45
18	Prevention of Slip-Related Backward Balance Loss: The Effect of Session Intensity and Frequency on Long-Term Retention. Archives of Physical Medicine and Rehabilitation, 2009, 90, 34-42.	0.9	41

#	Article	IF	Citations
19	Role of individual lower limb joints in reactive stability control following a novel slip in gait. Journal of Biomechanics, 2010, 43, 397-404.	2.1	36
20	Generalization of treadmill perturbation to overground slip during gait: Effect of different perturbation distances on slip recovery. Journal of Biomechanics, 2016, 49, 149-154.	2.1	35
21	Intensity and generalization of treadmill slip training: High or low, progressive increase or decrease?. Journal of Biomechanics, 2016, 49, 135-140.	2.1	35
22	Two types of slip-induced falls among community dwelling older adults. Journal of Biomechanics, 2012, 45, 1259-1264.	2.1	34
23	Correction of the inertial effect resulting from a plate moving under low-friction conditions. Journal of Biomechanics, 2007, 40, 2723-2730.	2.1	32
24	Determination of instantaneous stability against backward balance loss: Two computational approaches. Journal of Biomechanics, 2008, 41, 1818-1822.	2.1	32
25	Redistribution of knee stress using laterally wedged insole intervention: Finite element analysis of kneeâ€“ankleâ€“foot complex. Clinical Biomechanics, 2013, 28, 61-67.	1.2	32
26	Feasible Stability Region in the Frontal Plane During Human Gait. Annals of Biomedical Engineering, 2009, 37, 2606-2614.	2.5	31
27	Can treadmill-slip perturbation training reduce immediate risk of over-ground-slip induced fall among community-dwelling older adults?. Journal of Biomechanics, 2019, 84, 58-66.	2.1	29
28	Limits of recovery against slip-induced falls while walking. Journal of Biomechanics, 2011, 44, 2607-2613.	2.1	24
29	Limb Collapse, Rather Than Instability, Causes Failure in Sit-to-Stand Performance Among Patients With Parkinson Disease. Physical Therapy, 2011, 91, 381-391.	2.4	21
30	Can higher training practice dosage with treadmill slip-perturbation necessarily reduce risk of falls following overground slip?. Gait and Posture, 2018, 61, 387-392.	1.4	21
31	Treadmill-gait slip training in community-dwelling older adults: mechanisms of immediate adaptation for a progressive ascending-mixed-intensity protocol. Experimental Brain Research, 2019, 237, 2305-2317.	1.5	20
32	Gait Speed and Dynamic Stability Decline Accelerates Only in Late Life: A Cross-sectional Study in Community-Dwelling Older Adults. Journal of Geriatric Physical Therapy, 2019, 42, 73-80.	1.1	17
33	Can Recovery Foot Placement Affect Older Adultsâ€™ Slip-Fall Severity?. Annals of Biomedical Engineering, 2017, 45, 1941-1948.	2.5	16
34	Limb Collapse or Instability? Assessment on Cause of Falls. Annals of Biomedical Engineering, 2019, 47, 767-777.	2.5	14
35	Can Treadmill Slip-Perturbation Training Reduce Longer-Term Fall Risk Upon Overground Slip Exposure?. Journal of Applied Biomechanics, 2020, 36, 298-306.	0.8	14
36	Is There an Optimal Recovery Step Landing Zone Against Slip-Induced Backward Falls During Walking?. Annals of Biomedical Engineering, 2020, 48, 1768-1778.	2.5	12

#	Article	IF	Citations
37	The retention of fall-resisting behavior derived from treadmill slip-perturbation training in community-dwelling older adults. GeroScience, 2021, 43, 913-926.	4.6	12
38	The recovery response to a novel unannounced laboratory-induced slip: The â€œfirst trial effectâ€•in older adults. Clinical Biomechanics, 2017, 48, 9-14.	1.2	11
39	The Role of Recovery Lower Limb Segments in Post-Slip Determination of Falls Due to Instability or Limb Collapse. Annals of Biomedical Engineering, 2020, 48, 192-202.	2.5	11
40	Which Are the Key Kinematic and Kinetic Components to Distinguish Recovery Strategies for Overground Slips Among Community-Dwelling Older Adults?. Journal of Applied Biomechanics, 2020, 36, 217-227.	0.8	8
41	Association Between Anthropometric Factors and Falls in Communityâ€Dwelling Older Adults During a Simulated Slip While Walking. Journal of the American Geriatrics Society, 2014, 62, 1808-1810.	2.6	7
42	Postural Control Dysfunction and Balance Rehabilitation in Older Adults with Mild Cognitive Impairment. Brain Sciences, 2020, 10, 873.	2.3	6
43	Investigation of mechanical behavior of CPC/bone specimens by finite element analysis. Ceramics International, 2014, 40, 2933-2942.	4.8	5
44	A Footwearâ€“Footâ€“Knee Computational Platform for Exploring Footwear Effects on Knee Joint Biomechanics. Journal of Medical and Biological Engineering, 2016, 36, 245-256.	1.8	4
45	Feasibility of a real-time pattern-based kinematic feedback system for gait retraining in pediatric cerebral palsy. Journal of Rehabilitation and Assistive Technologies Engineering, 2021, 8, 205566832110141.	0.9	4
46	Can a single session of treadmill-based slip training reduce daily life falls in community-dwelling older adults? A randomized controlled trial. Aging Clinical and Experimental Research, 2022, 34, 1593-1602.	2.9	3
47	Kinematic synergies in over-ground slip recovery outcomes: Distinct strategies or a single strategy?. Gait and Posture, 2022, 95, 270-276.	1.4	0
48	Gait Slip-Induced Fall-Type Assessment Based on Regular Gait Characteristics in Older Adults. Journal of Applied Biomechanics, 2022, , 1-7.	0.8	0