

# Shirley Rietdyk

## List of Publications by Year in descending order

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Version: 2024-02-01

56  
papers

2,250  
citations

236612

25  
h-index

223531

46  
g-index

58  
all docs

58  
docs citations

58  
times ranked

1740  
citing authors

#	ARTICLE	IF	CITATIONS
1	Visual control of limb trajectory over obstacles during locomotion: effect of obstacle height and width. <i>Gait and Posture</i> , 1993, 1, 45-60.	0.6	276
2	Ankle Muscle Stiffness in the Control of Balance During Quiet Standing. <i>Journal of Neurophysiology</i> , 2001, 85, 2630-2633.	0.9	239
3	Balance recovery from medio-lateral perturbations of the upper body during standing. <i>Journal of Biomechanics</i> , 1999, 32, 1149-1158.	0.9	150
4	Locomotor Patterns of the Leading and the Trailing Limbs as Solid and Fragile Obstacles are Stepped over: Some Insights into the Role of Vision During Locomotion. <i>Journal of Motor Behavior</i> , 1996, 28, 35-47.	0.5	134
5	Control of adaptive locomotion: effect of visual obstruction and visual cues in the environment. <i>Experimental Brain Research</i> , 2006, 169, 272-278.	0.7	103
6	What guides the selection of alternate foot placement during locomotion in humans. <i>Experimental Brain Research</i> , 1999, 128, 441-450.	0.7	91
7	Age-related changes in balance control system: initiation of stepping. <i>Clinical Biomechanics</i> , 1993, 8, 179-184.	0.5	88
8	Task-Dependent Postural Control Throughout the Lifespan. <i>Exercise and Sport Sciences Reviews</i> , 2013, 41, 123-132.	1.6	73
9	Multiple timescales in postural dynamics associated with vision and a secondary task are revealed by wavelet analysis. <i>Experimental Brain Research</i> , 2009, 197, 297-310.	0.7	72
10	Visual exteroceptive information provided during obstacle crossing did not modify the lower limb trajectory. <i>Neuroscience Letters</i> , 2007, 418, 60-65.	1.0	71
11	Falls in young adults: Perceived causes and environmental factors assessed with a daily online survey. <i>Human Movement Science</i> , 2016, 46, 86-95.	0.6	66
12	Dynamic stability of a human standing on a balance board. <i>Journal of Biomechanics</i> , 2013, 46, 2593-2602.	0.9	64
13	Factors leading to obstacle contact during adaptive locomotion. <i>Experimental Brain Research</i> , 2012, 223, 219-231.	0.7	56
14	The effect of the visual characteristics of obstacles on risk of tripping and gait parameters during locomotion. <i>Ophthalmic and Physiological Optics</i> , 2011, 31, 302-310.	1.0	45
15	Gait initiation: The first four steps in adults aged 20–25 years, 65–79 years, and 80–91 years. <i>Gait and Posture</i> , 2014, 39, 490-494.	0.6	42
16	Memory-guided obstacle crossing: more failures were observed for the trail limb versus lead limb. <i>Experimental Brain Research</i> , 2014, 232, 2131-2142.	0.7	41
17	Comparison of two-dimensional and three-dimensional systems for kinematic analysis of the sagittal motion of canine hind limbs during walking. <i>American Journal of Veterinary Research</i> , 2008, 69, 1116-1122.	0.3	39
18	Context-dependent reflex control: some insights into the role of balance. <i>Experimental Brain Research</i> , 1998, 119, 251-259.	0.7	38

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19	Proactive gait strategies to mitigate risk of obstacle contact are more prevalent with advancing age. <i>Gait and Posture</i> , 2015, 41, 233-239.	0.6	38
20	A wearable smartphone-enabled camera-based system for gait assessment. <i>Gait and Posture</i> , 2015, 42, 138-144.	0.6	35
21	Limit cycle oscillations in standing human posture. <i>Journal of Biomechanics</i> , 2016, 49, 1170-1179.	0.9	35
22	Postural Asymmetries in Response to Holding Evenly and Unevenly Distributed Loads During Self-Selected Stance. <i>Journal of Motor Behavior</i> , 2011, 43, 345-355.	0.5	33
23	Walking while talking: Young adults flexibly allocate resources between speech and gait. <i>Gait and Posture</i> , 2018, 64, 59-62.	0.6	32
24	Changes in the control of obstacle crossing in middle age become evident as gait task difficulty increases. <i>Gait and Posture</i> , 2019, 70, 254-259.	0.6	31
25	Whole-body human-to-humanoid motion transfer. , 0, , .		28
26	Influence of an unexpected perturbation on adaptive gait behavior. <i>Gait and Posture</i> , 2011, 34, 439-441.	0.6	27
27	Falls in young adults: The effect of sex, physical activity, and prescription medications. <i>PLoS ONE</i> , 2021, 16, e0250360.	1.1	23
28	Proactive stability control while carrying loads and negotiating an elevated surface. <i>Experimental Brain Research</i> , 2005, 165, 44-53.	0.7	19
29	The Rough-Terrain Problem: Accurate Foot Targeting as a Function of Visual Information Regarding Target Location. <i>Journal of Motor Behavior</i> , 2009, 42, 37-48.	0.5	19
30	Locomotor Adaptation versus Perceptual Adaptation when Stepping Over an Obstacle with a Height Illusion. <i>PLoS ONE</i> , 2010, 5, e11544.	1.1	19
31	An active balance board system with real-time control of stiffness and time-delay to assess mechanisms of postural stability. <i>Journal of Biomechanics</i> , 2017, 60, 48-56.	0.9	18
32	Anticipatory locomotor adjustments of the trail limb during surface accommodation. <i>Gait and Posture</i> , 2006, 23, 268-272.	0.6	16
33	Synergies in the ground reaction forces and moments during double support in curb negotiation in young and older adults. <i>Journal of Biomechanics</i> , 2020, 106, 109837.	0.9	16
34	The relationship between intermittent limit cycles and postural instability associated with Parkinson's disease. <i>Journal of Sport and Health Science</i> , 2016, 5, 14-24.	3.3	15
35	Waterloo Vision and Mobility Study: Normal gait characteristics during dark and light adaptation in individuals with age-related maculopathy. <i>Gait and Posture</i> , 1995, 3, 227-235.	0.6	14
36	Gait characteristics during inadvertent obstacle contacts in young, middle-aged and older adults. <i>Gait and Posture</i> , 2020, 77, 100-104.	0.6	14

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37	Visual Control of Adaptive Locomotion and Changes Due to Natural Ageing. , 2017, , 55-72.		13
38	Work experience mitigated age-related differences in balance and mobility during surface accommodation. <i>Clinical Biomechanics</i> , 2005, 20, 1085-1093.	0.5	12
39	The Waterloo Vision and Mobility Study: postural control strategies in subjects with ARM. <i>Ophthalmic and Physiological Optics</i> , 1995, 15, 553-9.	1.0	12
40	Step length synergy is weaker in older adults during obstacle crossing. <i>Journal of Biomechanics</i> , 2021, 118, 110311.	0.9	11
41	Does the step length requirement in the subsequent step influence the strategies used for step length regulation in the current step?. <i>Human Movement Science</i> , 1994, 13, 109-127.	0.6	10
42	Experimental Verification of a Substructure-Based Model to Describe Pedestrianâ€“Bridge Interaction. <i>Journal of Bridge Engineering</i> , 2018, 23, .	1.4	10
43	The relative contributions of sagittal, frontal, and transverse joint works to self-paced incline and decline slope walking. <i>Journal of Biomechanics</i> , 2019, 92, 35-44.	0.9	10
44	Structured uncertainty for a pedestrian-structure interaction model. <i>Journal of Sound and Vibration</i> , 2020, 474, 115237.	2.1	10
45	The efficacy of the Microsoft KinectTM to assess human bimanual coordination. <i>Behavior Research Methods</i> , 2017, 49, 1030-1047.	2.3	9
46	A modelling approach to the dynamics of gait initiation. <i>Journal of the Royal Society Interface</i> , 2017, 14, 20170043.	1.5	6
47	Failures in adaptive locomotion: trial-and-error exploration to determine adequate foot elevation over obstacles. <i>Experimental Brain Research</i> , 2018, 236, 187-194.	0.7	5
48	Gaze diversion affects cognitive and motor performance in young adults when stepping over obstacles. <i>Gait and Posture</i> , 2019, 73, 273-278.	0.6	5
49	Changes to gait speed when romantic partners walk together: Effect of age and obstructed pathway. <i>Gait and Posture</i> , 2021, 85, 285-289.	0.6	5
50	Interpolation techniques to reduce error in measurement of toe clearance during obstacle avoidance. <i>Journal of Biomechanics</i> , 2012, 45, 196-198.	0.9	4
51	Parkinsonâ€™s patients delay fixations when circumventing an obstacle and performing a dual cognitive task. <i>Gait and Posture</i> , 2019, 73, 291-298.	0.6	4
52	Spatio-temporal assessment of gait kinematics in vertical pedestrian-structure interaction. <i>Structures</i> , 2021, 31, 1199-1206.	1.7	3
53	Sensitivity of the Toe Height to Multijoint Angular Changes in the Lower Limbs During Unobstructed and Obstructed Gait. <i>Journal of Applied Biomechanics</i> , 2021, 37, 224-232.	0.3	1
54	Exercise Training to Improve Independence and Quality of Life in Impaired Individuals. <i>Exercise and Sport Sciences Reviews</i> , 2012, 40, 117.	1.6	0

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55	Effects of whey protein supplementation on dietary compensation and muscle energetics in elderly adults. FASEB Journal, 2013, 27, 1075.7.	0.2	0
56	Effects of short-term protein supplementation on muscle work efficiency in elderly adults. FASEB Journal, 2013, 27, 1053.1.	0.2	0