# Shirley Rietdyk

List of Publications by Year
in descending order



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|---|---|---|---|
| 56 papers | 2,250 citations | 236925 25 h-index | 223800 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. Gait and Posture, 1993, 1, 45-60. | 1.4 | 276 |
| 2 | Ankle Muscle Stiffness in the Control of Balance During Quiet Standing. Journal of Neurophysiology, 2001, 85, 2630-2633. | 1.8 | 239 |
| 3 | Balance recovery from medio-lateral perturbations of the upper body during standing. Journal of Biomechanics, 1999, 32, 1149-1158. | 2.1 | 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. Journal of Motor Behavior, 1996, 28, 35-47. | 0.9 | 134 |
| 5 | Control of adaptive locomotion: effect of visual obstruction and visual cues in the environment. Experimental Brain Research, 2006, 169, 272-278. | 1.5 | 103 |
| 6 | What guides the selection of alternate foot placement during locomotion in humans. Experimental Brain Research, 1999, 128, 441-450. | 1.5 | 91 |
| 7 | Age-related changes in balance control system: initiation of stepping. Clinical Biomechanics, 1993, 8, 179-184. | 1.2 | 88 |
| 8 | Task-Dependent Postural Control Throughout the Lifespan. Exercise and Sport Sciences Reviews, 2013, 41, 123-132. | 3.0 | 73 |
| 9 | Multiple timescales in postural dynamics associated with vision and a secondary task are revealed by wavelet analysis. Experimental Brain Research, 2009, 197, 297-310. | 1.5 | 72 |
| 10 | Visual exteroceptive information provided during obstacle crossing did not modify the lower limb trajectory. Neuroscience Letters, 2007, 418, 60-65. | 2.1 | 71 |
| 11 | Falls in young adults: Perceived causes and environmental factors assessed with a daily online survey. Human Movement Science, 2016, 46, 86-95. | 1.4 | 66 |
| 12 | Dynamic stability of a human standing on a balance board. Journal of Biomechanics, 2013, 46, 2593-2602. | 2.1 | 64 |
| 13 | Factors leading to obstacle contact during adaptive locomotion. Experimental Brain Research, 2012, 223, 219-231. | 1.5 | 56 |
| 14 | The effect of the visual characteristics of obstacles on risk of tripping and gait parameters during locomotion. Ophthalmic and Physiological Optics, 2011, 31, 302-310. | 2.0 | 45 |
| 15 | Gait initiation: The first four steps in adults aged 20â€“25 years, 65â€“79 years, and 80â€“91 years. Gait and Posture, 2014, 39, 490-494. | 1.4 | 42 |
| 16 | Memory-guided obstacle crossing: more failures were observed for the trail limb versus lead limb. Experimental Brain Research, 2014, 232, 2131-2142. | 1.5 | 41 |
| 17 | Comparison of two-dimensional and three-dimensional systems for kinematic analysis of the sagittal motion of canine hind limbs during walking. American Journal of Veterinary Research, 2008, 69, 1116-1122. | 0.6 | 39 |
| 18 | Context-dependent reflex control: some insights into the role of balance. Experimental Brain Research, 1998, 119, 251-259. | 1.5 | 38 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Proactive gait strategies to mitigate risk of obstacle contact are more prevalent with advancing age. Gait and Posture, 2015, 41, 233-239. | 1.4 | 38 |
| 20 | A wearable smartphone-enabled camera-based system for gait assessment. Gait and Posture, 2015, 42, 138-144. | 1.4 | 35 |
| 21 | Limit cycle oscillations in standing human posture. Journal of Biomechanics, 2016, 49, 1170-1179. | 2.1 | 35 |
| 22 | Postural Asymmetries in Response to Holding Evenly and Unevenly Distributed Loads During Self-Selected Stance. Journal of Motor Behavior, 2011, 43, 345-355. | 0.9 | 33 |
| 23 | Walking while talking: Young adults flexibly allocate resources between speech and gait. Gait and Posture, 2018, 64, 59-62. | 1.4 | 32 |
| 24 | Changes in the control of obstacle crossing in middle age become evident as gait task difficulty increases. Gait and Posture, 2019, 70, 254-259. | 1.4 | 31 |
| 25 | Whole-body human-to-humanoid motion transfer. , 0, , . | | 28 |
| 26 | Influence of an unexpected perturbation on adaptive gait behavior. Gait and Posture, 2011, 34, 439-441. | 1.4 | 27 |
| 27 | Falls in young adults: The effect of sex, physical activity, and prescription medications. PLoS ONE, 2021, 16, e0250360. | 2.5 | 23 |
| 28 | Proactive stability control while carrying loads and negotiating an elevated surface. Experimental Brain Research, 2005, 165, 44-53. | 1.5 | 19 |
| 29 | The Rough-Terrain Problem: Accurate Foot Targeting as a Function of Visual Information Regarding Target Location. Journal of Motor Behavior, 2009, 42, 37-48. | 0.9 | 19 |
| 30 | Locomotor Adaptation versus Perceptual Adaptation when Stepping Over an Obstacle with a Height Illusion. PLoS ONE, 2010, 5, e11544. | 2.5 | 19 |
| 31 | An active balance board system with real-time control of stiffness and time-delay to assess mechanisms of postural stability. Journal of Biomechanics, 2017, 60, 48-56. | 2.1 | 18 |
| 32 | Anticipatory locomotor adjustments of the trail limb during surface accommodation. Gait and Posture, 2006, 23, 268-272. | 1.4 | 16 |
| 33 | Synergies in the ground reaction forces and moments during double support in curb negotiation in young and older adults. Journal of Biomechanics, 2020, 106, 109837. | 2.1 | 16 |
| 34 | The relationship between intermittent limit cycles and postural instability associated with Parkinson's disease. Journal of Sport and Health Science, 2016, 5, 14-24. | 6.5 | 15 |
| 35 | Waterloo Vision and Mobility Study: Normal gait characteristics during dark and light adaptation in individuals with age-related maculopathy. Gait and Posture, 1995, 3, 227-235. | 1.4 | 14 |
| 36 | Gait characteristics during inadvertent obstacle contacts in young, middle-aged and older adults. Gait and Posture, 2020, 77, 100-104. | 1.4 | 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. Clinical Biomechanics, 2005, 20, 1085-1093. | 1.2 | 12 |
| 39 | The Waterloo Vision and Mobility Study: postural control strategies in subjects with ARM. Ophthalmic and Physiological Optics, 1995, 15, 553-9. | 2.0 | 12 |
| 40 | Step length synergy is weaker in older adults during obstacle crossing. Journal of Biomechanics, 2021, 118, 110311. | 2.1 | 11 |
| 41 | Does the step length requirement in the subsequent step influence the strategies used for step length regulation in the current step?. Human Movement Science, 1994, 13, 109-127. | 1.4 | 10 |
| 42 | Experimental Verification of a Substructure-Based Model to Describe Pedestrianâ€“Bridge Interaction. Journal of Bridge Engineering, 2018, 23, . | 2.9 | 10 |
| 43 | The relative contributions of sagittal, frontal, and transverse joint works to self-paced incline and decline slope walking. Journal of Biomechanics, 2019, 92, 35-44. | 2.1 | 10 |
| 44 | Structured uncertainty for a pedestrian-structure interaction model. Journal of Sound and Vibration, 2020, 474, 115237. | 3.9 | 10 |
| 45 | The efficacy of the Microsoft KinectTM to assess human bimanual coordination. Behavior Research Methods, 2017, 49, 1030-1047. | 4.0 | 9 |
| 46 | A modelling approach to the dynamics of gait initiation. Journal of the Royal Society Interface, 2017, 14, 20170043. | 3.4 | 6 |
| 47 | Failures in adaptive locomotion: trial-and-error exploration to determine adequate foot elevation over obstacles. Experimental Brain Research, 2018, 236, 187-194. | 1.5 | 5 |
| 48 | Gaze diversion affects cognitive and motor performance in young adults when stepping over obstacles. Gait and Posture, 2019, 73, 273-278. | 1.4 | 5 |
| 49 | Changes to gait speed when romantic partners walk together: Effect of age and obstructed pathway. Gait and Posture, 2021, 85, 285-289. | 1.4 | 5 |
| 50 | Interpolation techniques to reduce error in measurement of toe clearance during obstacle avoidance. Journal of Biomechanics, 2012, 45, 196-198. | 2.1 | 4 |
| 51 | Parkinsonâ€™s patients delay fixations when circumventing an obstacle and performing a dual cognitive task. Gait and Posture, 2019, 73, 291-298. | 1.4 | 4 |
| 52 | Spatio-temporal assessment of gait kinematics in vertical pedestrian-structure interaction. Structures, 2021, 31, 1199-1206. | 3.6 | 3 |
| 53 | Sensitivity of the Toe Height to Multijoint Angular Changes in the Lower Limbs During Unobstructed and Obstructed Gait. Journal of Applied Biomechanics, 2021, 37, 224-232. | 0.8 | 1 |
| 54 | Exercise Training to Improve Independence and Quality of Life in Impaired Individuals. Exercise and Sport Sciences Reviews, 2012, 40, 117. | 3.0 | 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. | 0.5 | 0 |
| 56 | Effects of shortâ€term protein supplementation on muscle work efficiency in elderly adults. FASEB Journal, 2013, 27, 1053.1. | 0.5 | 0 |