

Daina L Sturnieks

List of Publications by Year in descending order

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Version: 2024-02-01

71
papers

2,536
citations

201674

27
h-index

206112

48
g-index

74
all docs

74
docs citations

74
times ranked

3340
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Repeatability of gait data using a functional hip joint centre and a mean helical knee axis. <i>Journal of Biomechanics</i> , 2003, 36, 1159-1168. | 2.1 | 434 |
| 2 | Mild Cognitive Impairment as a Predictor of Falls in Community-Dwelling Older People. <i>American Journal of Geriatric Psychiatry</i> , 2012, 20, 845-853. | 1.2 | 171 |
| 3 | Wearable pendant device monitoring using new wavelet-based methods shows daily life and laboratory gaits are different. <i>Medical and Biological Engineering and Computing</i> , 2016, 54, 663-674. | 2.8 | 126 |
| 4 | Concern About Falls Elicits Changes in Gait Parameters in Conditions of Postural Threat in Older People. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2009, 64A, 237-242. | 3.6 | 122 |
| 5 | Physiological risk factors for falls in older people with lower limb arthritis. <i>Journal of Rheumatology</i> , 2004, 31, 2272-9. | 2.0 | 117 |
| 6 | Knee joint biomechanics following arthroscopic partial meniscectomy. <i>Journal of Orthopaedic Research</i> , 2008, 26, 1075-1080. | 2.3 | 81 |
| 7 | Acute resistance exercise and pressure pain sensitivity in knee osteoarthritis: a randomised crossover trial. <i>Osteoarthritis and Cartilage</i> , 2014, 22, 407-414. | 1.3 | 76 |
| 8 | The association between choice stepping reaction time and falls in older adults—a path analysis model. <i>Age and Ageing</i> , 2010, 39, 99-104. | 1.6 | 75 |
| 9 | Force-Controlled Balance Perturbations Associated with Falls in Older People: A Prospective Cohort Study. <i>PLoS ONE</i> , 2013, 8, e70981. | 2.5 | 72 |
| 10 | Detection of Near Falls Using Wearable Devices: A Systematic Review. <i>Journal of Geriatric Physical Therapy</i> , 2019, 42, 48-56. | 1.1 | 65 |
| 11 | Age-related changes in gait adaptability in response to unpredictable obstacles and stepping targets. <i>Gait and Posture</i> , 2016, 46, 35-41. | 1.4 | 63 |
| 12 | Executive functioning, concern about falling and quadriceps strength mediate the relationship between impaired gait adaptability and fall risk in older people. <i>Gait and Posture</i> , 2018, 59, 188-192. | 1.4 | 59 |
| 13 | Validity and Reliability of Assessment Tools for Measuring Unsupported Sitting in People With a Spinal Cord Injury. <i>Archives of Physical Medicine and Rehabilitation</i> , 2009, 90, 1571-1577. | 0.9 | 55 |
| 14 | Knee Strength and Knee Adduction Moments following Arthroscopic Partial Meniscectomy. <i>Medicine and Science in Sports and Exercise</i> , 2008, 40, 991-997. | 0.4 | 50 |
| 15 | Effect of Reactive Balance Training Involving Repeated Slips and Trips on Balance Recovery Among Older Adults: A Blinded Randomized Controlled Trial. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2019, 74, 1489-1496. | 3.6 | 48 |
| 16 | Validity and reliability of the Swaymeter device for measuring postural sway. <i>BMC Geriatrics</i> , 2011, 11, 63. | 2.7 | 47 |
| 17 | Exposure to trips and slips with increasing unpredictability while walking can improve balance recovery responses with minimum predictive gait alterations. <i>PLoS ONE</i> , 2018, 13, e0202913. | 2.5 | 46 |
| 18 | Angiotensin System “Blocking Medications Are Associated with Fewer Falls over 12 Months in Community-Dwelling Older People. <i>Journal of the American Geriatrics Society</i> , 2013, 61, 776-781. | 2.6 | 41 |

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|----|--|------|-----------|
| 19 | Visuospatial Tasks Affect Locomotor Control More than Nonspatial Tasks in Older People. PLoS ONE, 2014, 9, e109802. | 2.5 | 40 |
| 20 | Effects of Spatial and Nonspatial Memory Tasks on Choice Stepping Reaction Time in Older People. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2008, 63, 1063-1068. | 3.6 | 36 |
| 21 | Sensorimotor and Cognitive Predictors of Impaired Gait Adaptability in Older People. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2017, 72, glw171. | 3.6 | 36 |
| 22 | Aging. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2018, 159, 157-171. | 1.8 | 35 |
| 23 | Risk factors for falls in older people with cognitive impairment living in the community: Systematic review and meta-analysis. Ageing Research Reviews, 2021, 71, 101452. | 10.9 | 35 |
| 24 | The effect of lower limb muscle fatigue on obstacle negotiation during walking in older adults. Gait and Posture, 2013, 37, 506-510. | 1.4 | 34 |
| 25 | Sensorimotor and neuropsychological correlates of force perturbations that induce stepping in older adults. Gait and Posture, 2012, 36, 356-360. | 1.4 | 33 |
| 26 | Detection of simultaneous movement at two human arm joints. Journal of Physiology, 2007, 585, 833-842. | 2.9 | 32 |
| 27 | Reduced strength, poor balance and concern about falls mediate the relationship between knee pain and fall risk in older people. BMC Geriatrics, 2020, 20, 94. | 2.7 | 32 |
| 28 | The influence of age, anxiety and concern about falling on postural sway when standing at an elevated level. Human Movement Science, 2016, 49, 206-215. | 1.4 | 31 |
| 29 | Fatigue induced changes to kinematic and kinetic gait parameters following six minutes of walking in people with multiple sclerosis. Disability and Rehabilitation, 2016, 38, 535-543. | 1.8 | 31 |
| 30 | Pain Is Associated With Poor Balance in Community-Dwelling Older Adults: A Systematic Review and Meta-analysis. Journal of the American Medical Directors Association, 2020, 21, 597-603.e8. | 2.5 | 29 |
| 31 | Association of Postural Sway with Disability Status and Cerebellar Dysfunction in People with Multiple Sclerosis. International Journal of MS Care, 2015, 17, 146-151. | 1.0 | 28 |
| 32 | Muscle activations to stabilize the knee following arthroscopic partial meniscectomy. Clinical Biomechanics, 2011, 26, 292-297. | 1.2 | 26 |
| 33 | Pain and Anxiety Mediate the Relationship Between Dizziness and Falls in Older People. Journal of the American Geriatrics Society, 2013, 61, 423-428. | 2.6 | 23 |
| 34 | A pilot study of reactive balance training using trips and slips with increasing unpredictability in young and older adults: Biomechanical mechanisms, falls and clinical feasibility. Clinical Biomechanics, 2019, 67, 171-179. | 1.2 | 22 |
| 35 | People With Parkinson's Disease Exhibit Reduced Cognitive and Motor Cortical Activity When Undertaking Complex Stepping Tasks Requiring Inhibitory Control. Neurorehabilitation and Neural Repair, 2020, 34, 1088-1098. | 2.9 | 21 |
| 36 | Adiposity Estimated Using Dual Energy X-Ray Absorptiometry and Body Mass Index and Its Association with Cognition in Elderly Adults. Journal of the American Geriatrics Society, 2014, 62, 2311-2318. | 2.6 | 18 |

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|----|---|-----|-----------|
| 37 | Impact of pain on reactive balance and falls in community-dwelling older adults: a prospective cohort study. <i>Age and Ageing</i> , 2020, 49, 982-988. | 1.6 | 17 |
| 38 | Reducing the burden of dizziness in middle-aged and older people: A multifactorial, tailored, single-blind randomized controlled trial. <i>PLoS Medicine</i> , 2018, 15, e1002620. | 8.4 | 15 |
| 39 | Impaired weight transfer persists at least four months after hip fracture and rehabilitation. <i>Clinical Rehabilitation</i> , 2010, 24, 565-573. | 2.2 | 14 |
| 40 | Effects of Nonslip Socks on the Gait Patterns of Older People When Walking on a Slippery Surface. <i>Journal of the American Podiatric Medical Association</i> , 2013, 103, 471-479. | 0.3 | 14 |
| 41 | High Arterial Pulse Wave Velocity Is a Risk Factor for Falls in Community-Dwelling Older People. <i>Journal of the American Geriatrics Society</i> , 2014, 62, 1534-1539. | 2.6 | 14 |
| 42 | Dorsiflexion Assist Orthosis Reduces the Physiological Cost and Mitigates Deterioration in Strength and Balance Associated With Walking in People With Multiple Sclerosis. <i>Archives of Physical Medicine and Rehabilitation</i> , 2015, 96, 226-232.e1. | 0.9 | 13 |
| 43 | Risk factors for falls in community-dwelling older people with mild cognitive impairment: a prospective one-year study. <i>PeerJ</i> , 0, 10, e13484. | 2.0 | 13 |
| 44 | Walking for six minutes increases both simple reaction time and stepping reaction time in moderately disabled people with Multiple Sclerosis. <i>Multiple Sclerosis and Related Disorders</i> , 2014, 3, 457-462. | 2.0 | 12 |
| 45 | Effect of cognitive-only and cognitive-motor training on preventing falls in community-dwelling older people: protocol for the smart±step randomised controlled trial. <i>BMJ Open</i> , 2019, 9, e029409. | 1.9 | 12 |
| 46 | Internet-Based Implementation of Non-Pharmacological Interventions of the "People Getting a Grip on Arthritis" Educational Program: An International Online Knowledge Translation Randomized Controlled Trial Design Protocol. <i>JMIR Research Protocols</i> , 2015, 4, e19. | 1.0 | 11 |
| 47 | Optimizing successful balance recovery from unexpected trips and slips. <i>Journal of Biomechanical Science and Engineering</i> , 2018, 13, 17-00558-17-00558. | 0.3 | 10 |
| 48 | The Relationship Between Daily Physical Activity and Pain in Individuals with Knee Osteoarthritis. <i>Pain Medicine</i> , 2020, 21, 2481-2495. | 1.9 | 10 |
| 49 | Physical activity patterns and function 3 months after arthroscopic partial meniscectomy. <i>Journal of Science and Medicine in Sport</i> , 2013, 16, 195-199. | 1.3 | 9 |
| 50 | How important are perturbation responses and joint proprioception to knee osteoarthritis?. <i>Journal of Applied Physiology</i> , 2014, 116, 1-2. | 2.5 | 8 |
| 51 | Perturbation-Based Balance Training Using Repeated Trips on a Walkway vs. Belt Accelerations on a Treadmill: A Cross-Over Randomised Controlled Trial in Community-Dwelling Older Adults. <i>Frontiers in Sports and Active Living</i> , 2021, 3, 702320. | 1.8 | 7 |
| 52 | Relationship between whole body oxygen consumption and skeletal muscle glucose metabolism during walking in older adults: FDG PET study. <i>Aging Clinical and Experimental Research</i> , 2011, 23, 175-182. | 2.9 | 6 |
| 53 | Negligible Impact on Posture From 5-Diopter Vertical Yoked Prisms. , 2015, 56, 2980. | | 6 |
| 54 | Cognitive and Motor Cortical Activity During Cognitively Demanding Stepping Tasks in Older People at Low and High Risk of Falling. <i>Frontiers in Medicine</i> , 2021, 8, 554231. | 2.6 | 6 |

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|----|---|-----|-----------|
| 55 | Implementing falls prevention research into policy and practice: an overview of a new National Health and Medical Research Council Partnership Grant. <i>NSW Public Health Bulletin</i> , 2011, 22, 84. | 0.3 | 6 |
| 56 | Exercise for falls prevention in older people: Assessing the knowledge of exercise science students. <i>Journal of Science and Medicine in Sport</i> , 2010, 13, 59-64. | 1.3 | 5 |
| 57 | Identifying Key Risk Factors for Dizziness Handicap in Middle-Aged and Older People. <i>Journal of the American Medical Directors Association</i> , 2020, 21, 344-350.e2. | 2.5 | 5 |
| 58 | Predictors of development and persistence of musculoskeletal pain in community-dwelling older people: A two-year longitudinal study. <i>Geriatrics and Gerontology International</i> , 2021, 21, 519-524. | 1.5 | 5 |
| 59 | Calling on exercise scientists to participate in broader efforts to prevent falls in older adults. <i>Journal of Science and Medicine in Sport</i> , 2006, 9, 195-198. | 1.3 | 4 |
| 60 | Tailored multifactorial intervention to improve dizziness symptoms and quality of life, balance and gait in dizziness sufferers aged over 50 years: protocol for a randomised controlled trial. <i>BMC Geriatrics</i> , 2017, 17, 56. | 2.7 | 4 |
| 61 | Health professional student education related to the prevention of falls in older people: A survey of universities in Australia and New Zealand. <i>Australasian Journal on Ageing</i> , 2018, 37, E116-E119. | 0.9 | 3 |
| 62 | Individual factors that influence task performance on a straight ladder in older people. <i>Experimental Gerontology</i> , 2020, 142, 111127. | 2.8 | 3 |
| 63 | Individual factors that influence task performance on a stepladder in older people. <i>Safety Science</i> , 2021, 136, 105152. | 4.9 | 3 |
| 64 | Ladder Use in Older People: Type, Frequency, Tasks and Predictors of Risk Behaviours. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 9799. | 2.6 | 3 |
| 65 | Reactive balance responses to a trip and slip during gait in people with multiple sclerosis. <i>Clinical Biomechanics</i> , 2021, 90, 105511. | 1.2 | 3 |
| 66 | Situational factors that influence overreaching on a ladder during a gutter clearing task among older adults. <i>Applied Ergonomics</i> , 2022, 104, 103794. | 3.1 | 2 |
| 67 | Transfer effects of step training on stepping performance in untrained directions in older adults: A randomized controlled trial. <i>Gait and Posture</i> , 2017, 54, 50-55. | 1.4 | 1 |
| 68 | A busy day has minimal effect on factors associated with falls in older people: An ecological randomised crossover trial. <i>Experimental Gerontology</i> , 2018, 106, 192-197. | 2.8 | 1 |
| 69 | 20 Optic Flow Stimuli Effects on Standing Balance in Young and Older People with Low and High Fall Risk. <i>Age and Ageing</i> , 2019, 48, iv6-iv8. | 1.6 | 0 |
| 70 | Biomechanics of Balance and Falling. , 2021, , 105-118. | | 0 |
| 71 | Impact of pathological conditions on postural reflex latency and adaptability following unpredictable perturbations: A systematic review and meta-analysis. <i>Gait and Posture</i> , 2022, 95, 149-159. | 1.4 | 0 |