# Stephen Neil Robinovitch

## List of Publications by Year in Descending Order



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| 99 papers | 3,346 citations | 33 h-index | 56 g-index |
| 101 ext. papers | 3,876 ext. citations | 4.3 avg, IF | 5.46 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 99 | Injuries from falls by older adults in long-term care captured on video: Prevalence of impacts and injuries to body parts.. *BMC Geriatrics*, **2022**, 22, 343 | 4.1 | 1 |
| 98 | Accuracy of Kinovea software in estimating body segment movements during falls captured on standard video: Effects of fall direction, camera perspective and video calibration technique. *PLoS ONE*, **2021**, 16, e0258923 | 3.7 | 2 |
| 97 | Effect of Holding Objects on the Occurrence of Head Impact in Falls by Older Adults: Evidence From Real-Life Falls in Long-Term Care. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2021**, 76, 1463-1470 | 6.4 | 5 |
| 96 | The Role of Fall Biomechanics in the Cause and Prevention of Bone Fractures in Older Adults. *Current Osteoporosis Reports*, **2021**, 19, 381-390 | 5.4 | 3 |
| 95 | Effective stiffness, damping and mass of the body during laboratory simulations of shoulder checks in ice hockey. *Sports Biomechanics*, **2021**, 1-12 | 2.2 | 0 |
| 94 | The Effect of Fall Biomechanics on Risk for Hip Fracture in Older Adults: A Cohort Study of Video-Captured Falls in Long-Term Care. *Journal of Bone and Mineral Research*, **2020**, 35, 1914-1922 | 6.3 | 19 |
| 93 | American society of biomechanics journal of biomechanics award 2019: Circumstances of head impacts in mens university ice hockey. *Journal of Biomechanics*, **2020**, 108, 109882 | 2.9 | 1 |
| 92 | Estimating Trunk and Neck Stabilization for Avoiding Head Impact during Real-World Falls in Older Adults. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2020**, 2020, 4823-4826 | 0.9 | 3 |
| 91 | Recreational Therapy to Promote Mobility in Long-Term Care: A Scoping Review. *Journal of Aging and Physical Activity*, **2020**, 29, 142-161 | 1.6 | 3 |
| 90 | The Flooring for Injury Prevention (FLIP) Study of compliant flooring for the prevention of fall-related injuries in long-term care: A randomized trial. *PLoS Medicine*, **2019**, 16, e1002843 | 11.6 | 19 |
| 89 | Effect of body configuration at step contact on balance recovery from sideways perturbations. *Human Movement Science*, **2019**, 66, 383-389 | 2.4 | 1 |
| 88 | A comparison of the magnitude and duration of linear and rotational head accelerations generated during hand-, elbow- and shoulder-to-head checks delivered by hockey players. *Journal of Biomechanics*, **2019**, 91, 43-50 | 2.9 | 5 |
| 87 | Relationships between orthostatic hypotension, frailty, falling and mortality in elderly care home residents. *BMC Geriatrics*, **2019**, 19, 80 | 4.1 | 25 |
| 86 | Effectiveness of Hip Protectors to Reduce Risk for Hip Fracture from Falls in Long-Term Care. *Journal of the American Medical Directors Association*, **2019**, 20, 1397-1403.e1 | 5.9 | 10 |
| 85 | Development of a stick-on hip protector: A multiple methods study to improve hip protector design for older adults in the acute care environment. *Journal of Rehabilitation and Assistive Technologies Engineering*, **2019**, 6, 2055668319877314 | 1.7 | 2 |
| 84 | Similarity of Repeated Falls in Older Long-Term Care Residents: Do the Circumstances of Past Falls Predict Those of Future Falls?. *Journal of the American Medical Directors Association*, **2019**, 20, 386-387 | 5.9 | 2 |
| 83 | Brain Vital Signs: Expanding From the Auditory to Visual Modality. *Frontiers in Neuroscience*, **2018**, 12, 968 | 5.1 | 11 |

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| 82 | Hand forces exerted by long-term care staff when pushing wheelchairs on compliant and non-compliant flooring. *Applied Ergonomics*, **2018**, 71, 95-101 | 4.2 | 5 |
| 81 | Determinants of staff commitment to hip protectors in long-term care: A cross-sectional survey. *International Journal of Nursing Studies*, **2018**, 82, 139-148 | 5.8 | 2 |
| 80 | Biomechanical and physiological age differences in a simulated forward fall on outstretched hands in women. *Clinical Biomechanics*, **2018**, 52, 102-108 | 2.2 | 17 |
| 79 | The Association Between Fall Frequency, Injury Risk, and Characteristics of Falls in Older Residents of Long-Term Care: Do Recurrent Fallers Fall More Safely?. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2018**, 73, 786-791 | 6.4 | 10 |
| 78 | Sex Differences in the Circumstances Leading to Falls: Evidence From Real-Life Falls Captured on Video in Long-Term Care. *Journal of the American Medical Directors Association*, **2018**, 19, 130-135.e1 | 5.9 | 24 |
| 77 | Perceptions about Compliant Flooring from Senior Managers in Long-Term Care. *Journal of Housing for the Elderly*, **2018**, 32, 194-210 | 1.6 | 4 |
| 76 | Video-Based Analysis of Heart Rate Applied to Falls **2018**, | | 3 |
| 75 | Ecology of falls. *Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn*, **2018**, 159, 147-154 | 3 | 0 |
| 74 | A comparison of accuracy of fall detection algorithms (threshold-based vs. machine learning) using waist-mounted tri-axial accelerometer signals from a comprehensive set of falls and non-fall trials. *Medical and Biological Engineering and Computing*, **2017**, 55, 45-55 | 3.1 | 90 |
| 73 | The Effect of Shoulder Pad Design on Head Impact Severity during Checking. *Medicine and Science in Sports and Exercise*, **2017**, 49, 573-580 | 1.2 | 3 |
| 72 | Female Age-Related Differences in Biomechanics and Muscle Activity During Descents on the Outstretched Arms. *Journal of Aging and Physical Activity*, **2017**, 25, 474-481 | 1.6 | 5 |
| 71 | Association between Sedentary Behaviour and Physical, Cognitive, and Psychosocial Status among Older Adults in Assisted Living. *BioMed Research International*, **2017**, 2017, 9160504 | 3 | 33 |
| 70 | Validation of accuracy of SVM-based fall detection system using real-world fall and non-fall datasets. *PLoS ONE*, **2017**, 12, e0180318 | 3.7 | 37 |
| 69 | Clinical Risk Factors for Head Impact During Falls in Older Adults: A Prospective Cohort Study in Long-Term Care. *Journal of Head Trauma Rehabilitation*, **2017**, 32, 168-177 | 3 | 21 |
| 68 | Validation and psychometric properties of the commitment to hip protectors (C-HiP) index in long-term care providers of British Columbia, Canada: a cross-sectional survey. *BMC Geriatrics*, **2017** , 17, 103 | 4.1 | 3 |
| 67 | Accuracy of a wavelet-based fall detection approach using an accelerometer and a barometric pressure sensor. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2017**, | 0.9 | 8 |
| 66 | Compliant flooring to prevent fall-related injuries in older adults: A scoping review of biomechanical efficacy, clinical effectiveness, cost-effectiveness, and workplace safety. *PLoS ONE*, **2017**, 12, e0171652 | 3.7 | 31 |
| 65 | External Hand Forces Exerted by Long-Term Care Staff to Push Floor-Based Lifts: Effects of Flooring System and Resident Weight. *Human Factors*, **2016**, 58, 927-43 | 3.8 | 11 |

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| 64 | Risk factors for hip impact during real-life falls captured on video in long-term care. *Osteoporosis International*, **2016**, 27, 537-47 | 5.3 | 27 |
| 63 | Identifying the number and location of body worn sensors to accurately classify walking, transferring and sedentary activities. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2016**, 2016, 5003-5006 | 0.9 | 6 |
| 62 | Study protocol for the Flooring for Injury Prevention (FLIP) Study: a randomised controlled trial in long-term care. *Injury Prevention*, **2016**, 22, 453-460 | 3.2 | 9 |
| 61 | Falls and Parkinson's Disease: Evidence from Video Recordings of Actual Fall Events. *Journal of the American Geriatrics Society*, **2016**, 64, 96-101 | 5.6 | 30 |
| 60 | Agreement between video footage and fall incident reports on the circumstances of falls in long-term care. *Journal of the American Medical Directors Association*, **2015**, 16, 388-94 | 5.9 | 24 |
| 59 | Inertial sensing-based pre-impact detection of falls involving near-fall scenarios. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, **2015**, 23, 258-66 | 4.8 | 81 |
| 58 | Cardiovascular responses to orthostasis and their association with falls in older adults. *BMC Geriatrics*, **2015**, 15, 174 | 4.1 | 16 |
| 57 | Using video capture to investigate the causes of falls in long-term care. *Gerontologist, The*, **2015**, 55, 483-94 | 5 | 11 |
| 56 | Home-safety modifications to reduce injuries from falls. *Lancet, The*, **2015**, 385, 205-6 | 40 | 2 |
| 55 | Distinguishing the causes of falls in humans using an array of wearable tri-axial accelerometers. *Gait and Posture*, **2014**, 39, 506-12 | 2.6 | 37 |
| 54 | Predictors of serious consequences of falls in residential aged care: analysis of more than 70,000 falls from residents of Bavarian nursing homes. *Journal of the American Medical Directors Association*, **2014**, 15, 559-63 | 5.9 | 41 |
| 53 | Measurement of the effect of playground surface materials on hand impact forces during upper limb fall arrests. *Journal of Applied Biomechanics*, **2014**, 30, 276-81 | 1.2 | 3 |
| 52 | Effect of ambient light and age-related macular degeneration on precision walking. *Optometry and Vision Science*, **2014**, 91, 990-9 | 2.1 | 7 |
| 51 | Biometric system for measuring gait and fall characteristics captured on video. *Journal of Biomechanical Engineering*, **2014**, 136, | 2.1 | 2 |
| 50 | Effects of age-related macular degeneration and ambient light on curb negotiation. *Optometry and Vision Science*, **2014**, 91, 975-89 | 2.1 | 13 |
| 49 | The effect of window size and lead time on pre-impact fall detection accuracy using support vector machine analysis of waist mounted inertial sensor data. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2014**, 2014, 30-3 | 0.9 | 17 |
| 48 | Autonomy, choice, patient-centered care, and hip protectors: the experience of residents and staff in long-term care. *Journal of Applied Gerontology*, **2014**, 33, 690-709 | 3.3 | 9 |
| 47 | The effect of orthostatic stress type on cardiovascular control. *Blood Pressure Monitoring*, **2014**, 19, 327-38 | 1.3 | 9 |

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| 46 | Maintaining standing balance by handrail grasping. *Gait and Posture*, **2014**, 39, 258-64 | 2.6 | 17 |
| 45 | Development and validation of a questionnaire for analyzing real-life falls in long-term care captured on video. *BMC Geriatrics*, **2013**, 13, 40 | 4.1 | 30 |
| 44 | Video capture of the circumstances of falls in elderly people residing in long-term care: an observational study. *Lancet, The*, **2013**, 381, 47-54 | 40 | 516 |
| 43 | Falls in older people in long-term care--authorsSreply. *Lancet, The*, **2013**, 381, 1180 | 40 | 1 |
| 42 | The effects of initial movement dynamics on human responses to postural perturbations. *Human Movement Science*, **2013**, 32, 857-65 | 2.4 | 4 |
| 41 | Understanding contextual factors in falls in long-term care facilities. *Quality in Ageing and Older Adults*, **2013**, 14, 160-166 | 0.9 | 1 |
| 40 | Prevalence of and factors associated with head impact during falls in older adults in long-term care. *Cmaj*, **2013**, 185, E803-10 | 3.5 | 52 |
| 39 | Quantification of the trade-off between force attenuation and balance impairment in the design of compliant safety floors. *Journal of Applied Biomechanics*, **2013**, 29, 563-72 | 1.2 | 14 |
| 38 | Estimation of Attitude and External Acceleration Using Inertial Sensor Measurement During Various Dynamic Conditions. *IEEE Transactions on Instrumentation and Measurement*, **2012**, 61, 2262-2273 | 5.2 | 129 |
| 37 | Distinguishing near-falls from daily activities with wearable accelerometers and gyroscopes using Support Vector Machines. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2012**, 2012, 5837-40 | 0.9 | 11 |
| 36 | The body configuration at step contact critically determines the successfulness of balance recovery in response to large backward perturbations. *Gait and Posture*, **2012**, 35, 462-6 | 2.6 | 25 |
| 35 | Transmission of force in the lumbosacral spine during backward falls. *Spine*, **2012**, 37, E519-27 | 3.3 | 13 |
| 34 | The effects of pad geometry and material properties on the biomechanical effectiveness of 26 commercially available hip protectors. *Journal of Biomechanics*, **2011**, 44, 2627-35 | 2.9 | 44 |
| 33 | An analysis of the accuracy of wearable sensors for classifying the causes of falls in humans. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, **2011**, 19, 670-6 | 4.8 | 68 |
| 32 | Age differences in energy absorption in the upper extremity during a descent movement: implications for arresting a fall. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2010**, 65, 312-7 | 6.4 | 36 |
| 31 | The European Standard testing method for motorcyclistsSprotective clothing (EN 1621-1) is unsuitable for hip protectors. *Injury*, **2010**, 41, 430-1; author reply 431 | 2.5 | 1 |
| 30 | Characterizing the effective stiffness of the pelvis during sideways falls on the hip. *Journal of Biomechanics*, **2010**, 43, 1898-904 | 2.9 | 37 |
| 29 | Hip protectors: recommendations for biomechanical testing--an international consensus statement (part I). *Osteoporosis International*, **2009**, 20, 1977-88 | 5.3 | 56 |

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| 28 | Low stiffness floors can attenuate fall-related femoral impact forces by up to 50% without substantially impairing balance in older women. *Accident Analysis and Prevention*, **2009**, 41, 642-50 | 6.1 | 57 |
| 27 | Modeling of postural stability borders during heel-toe rocking. *Gait and Posture*, **2009**, 30, 161-7 | 2.6 | 10 |
| 26 | Older fallers with poor working memory overestimate their postural limits. *Archives of Physical Medicine and Rehabilitation*, **2008**, 89, 1335-40 | 2.8 | 53 |
| 25 | The force attenuation provided by hip protectors depends on impact velocity, pelvic size, and soft tissue stiffness. *Journal of Biomechanical Engineering*, **2008**, 130, 061005 | 2.1 | 56 |
| 24 | Preventing fall-related vertebral fractures: effect of floor stiffness on peak impact forces during backward falls. *Spine*, **2008**, 33, 1856-62 | 3.3 | 22 |
| 23 | Effect of soft shell hip protectors on pressure distribution to the hip during sideways falls. *Osteoporosis International*, **2008**, 19, 1067-75 | 5.3 | 44 |
| 22 | Automated postural responses are modified in a functional manner by instruction. *Experimental Brain Research*, **2008**, 186, 571-80 | 2.3 | 25 |
| 21 | Reducing hip fracture risk during sideways falls: evidence in young adults of the protective effects of impact to the hands and stepping. *Journal of Biomechanics*, **2007**, 40, 2612-8 | 2.9 | 112 |
| 20 | The effect of step length on young and elderly womenS ability to recover balance. *Clinical Biomechanics*, **2007**, 22, 574-80 | 2.2 | 78 |
| 19 | Effect of compliant flooring on impact force during falls on the hip. *Journal of Orthopaedic Research* , **2006**, 24, 1405-11 | 3.8 | 44 |
| 18 | Mechanisms underlying age-related differences in ability to recover balance with the ankle strategy. *Gait and Posture*, **2006**, 23, 59-68 | 2.6 | 78 |
| 17 | Wrist impact velocities are smaller in forward falls than backward falls from standing. *Journal of Biomechanics*, **2006**, 39, 1804-11 | 2.9 | 30 |
| 16 | Neuromuscular versus behavioural influences on reaching performance in young and elderly women. *Gait and Posture*, **2005**, 22, 258-66 | 2.6 | 4 |
| 15 | Postural steadiness during quiet stance does not associate with ability to recover balance in older women. *Clinical Biomechanics*, **2005**, 20, 776-83 | 2.2 | 50 |
| 14 | Effect of mouthguards on the transmission of force across the human jaw. *Clinical Journal of Sport Medicine*, **2005**, 15, 313-9 | 3.2 | 11 |
| 13 | Time requirement for young and elderly women to move into a position for breaking a fall with outstretched hands. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2005** , 60, 1553-7 | 6.4 | 35 |
| 12 | Elderly nursing home and day care participants are less likely than young adults to approach imbalance during voluntary forward reaching. *Experimental Aging Research*, **2004**, 30, 275-90 | 1.7 | 4 |
| 11 | Effect of the "squat protective response" on impact velocity during backward falls. *Journal of Biomechanics*, **2004**, 37, 1329-37 | 2.9 | 56 |

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| 10 | Strategies for avoiding hip impact during sideways falls. *Journal of Bone and Mineral Research*, **2003**, 18, 1267-73 | 6.3 | 61 |
| 9 | Effect of strength and speed of torque development on balance recovery with the ankle strategy. *Journal of Neurophysiology*, **2002**, 88, 613-20 | 3.2 | 74 |
| 8 | An analysis of the effect of lower extremity strength on impact severity during a backward fall. *Journal of Biomechanical Engineering*, **2001**, 123, 590-8 | 2.1 | 45 |
| 7 | Impact severity in self-initiated sits and falls associates with center-of-gravity excursion during descent. *Journal of Biomechanics*, **2000**, 33, 863-70 | 2.9 | 19 |
| 6 | Biomechanical influences on balance recovery by stepping. *Journal of Biomechanics*, **1999**, 32, 1099-106 | 2.9 | 76 |
| 5 | Prediction of upper extremity impact forces during falls on the outstretched hand. *Journal of Biomechanics*, **1998**, 31, 1169-76 | 2.9 | 167 |
| 4 | Surface stiffness affects impact force during a fall on the outstretched hand. *Journal of Orthopaedic Research*, **1998**, 16, 309-13 | 3.8 | 63 |
| 3 | Perception of postural limits during reaching. *Journal of Motor Behavior*, **1998**, 30, 352-8 | 1.4 | 56 |
| 2 | Distribution of contact force during impact to the hip. *Annals of Biomedical Engineering*, **1997**, 25, 499-508 | 4.7 | 60 |
| 1 | Force attenuation in trochanteric soft tissues during impact from a fall. *Journal of Orthopaedic Research*, **1995**, 13, 956-62 | 3.8 | 138 |