

# Jorunn L Helbostad

## List of Publications by Year in descending order

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Version: 2024-02-01

111  
papers

5,842  
citations

81743

39  
h-index

82410

72  
g-index

113  
all docs

113  
docs citations

113  
times ranked

7284  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Estimation of gait cycle characteristics by trunk accelerometry. <i>Journal of Biomechanics</i> , 2004, 37, 121-126.   | 0.9 | 574       |
| 2  | Comprehensive geriatric care for patients with hip fractures: a prospective, randomised, controlled trial. <i>Lancet, The</i> , 2015, 385, 1623-1633.  | 6.3 | 449       |
| 3  | Exercise and rehabilitation delivered through exergames in older adults: An integrative review of technologies, safety and efficacy. <i>International Journal of Medical Informatics</i> , 2016, 85, 1-16.   | 1.6 | 250       |
| 4  | Interstride trunk acceleration variability but not step width variability can differentiate between fit and frail older adults. <i>Gait and Posture</i> , 2005, 21, 164-170.   | 0.6 | 215       |
| 5  | Poor Gait Performance and Prediction of Dementia: Results From a Meta-Analysis. <i>Journal of the American Medical Directors Association</i> , 2016, 17, 482-490.  | 1.2 | 206       |
| 6  | Changes in skeletal muscle mass during palliative chemotherapy in patients with advanced lung cancer. <i>Acta Oncologica</i> , 2015, 54, 340-348.  | 0.8 | 170       |
| 7  | Physical activity monitoring by use of accelerometer-based body-worn sensors in older adults: A systematic literature review of current knowledge and applications. <i>Maturitas</i> , 2012, 71, 13-19.  | 1.0 | 164       |
| 8  | Physical Fatigue Affects Gait Characteristics in Older Persons. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2007, 62, 1010-1015.  | 1.7 | 153       |
| 9  | Mobile Health Applications to Promote Active and Healthy Ageing. <i>Sensors</i> , 2017, 17, 622.   | 2.1 | 151       |
| 10 | The effect of gait speed on lateral balance control during walking in healthy elderly. <i>Gait and Posture</i> , 2003, 18, 27-36.  | 0.6 | 147       |
| 11 | Does walking strategy in older people change as a function of walking distance?. <i>Gait and Posture</i> , 2009, 29, 261-266.  | 0.6 | 136       |
| 12 | Guidelines for Assessment of Gait and Reference Values for Spatiotemporal Gait Parameters in Older Adults: The Biomathics and Canadian Gait Consortiums Initiative. <i>Frontiers in Human Neuroscience</i> , 2017, 11, 353.  | 1.0 | 116       |
| 13 | Consequences of lower extremity and trunk muscle fatigue on balance and functional tasks in older people: A systematic literature review. <i>BMC Geriatrics</i> , 2010, 10, 56.  | 1.1 | 98        |
| 14 | Clinical tools to assess balance in children and adults with cerebral palsy: a systematic review. <i>Developmental Medicine and Child Neurology</i> , 2013, 55, 988-999.   | 1.1 | 96        |
| 15 | The Otago Exercise Program Performed as Group Training Versus Home Training in Fall-prone Older People: A Randomized Controlled Trial. <i>Physiotherapy Research International</i> , 2014, 19, 108-116.  | 0.7 | 85        |
| 16 | Physical Behavior and Function Early After Hip Fracture Surgery in Patients Receiving Comprehensive Geriatric Care or Orthopedic Care--A Randomized Controlled Trial. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2014, 69A, 338-345. | 1.7 | 84        |
| 17 | Gait variability measures may represent different constructs. <i>Gait and Posture</i> , 2010, 32, 98-101.  | 0.6 | 82        |
| 18 | Validation of the Falls Efficacy Scale-International in fall-prone older persons. <i>Age and Ageing</i> , 2010, 39, 259-259.   | 0.7 | 75        |

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|----|--|-----|-----------|
| 19 | Effects of Individually Tailored Physical and Daily Activities in Nursing Home Residents on Activities of Daily Living, Physical Performance and Physical Activity Level: A Randomized Controlled Trial. <i>Gerontology</i> , 2013, 59, 220-229. | 1.4 | 74        |
| 20 | Balance and gait in children with dyslexia. <i>Experimental Brain Research</i> , 2003, 150, 237-244.   | 0.7 | 72        |
| 21 | Effect of exercise training for five years on all cause mortality in older adults—the Generation 100 study: randomised controlled trial. <i>BMJ</i> , The, 2020, 371, m3485.   | 3.0 | 72        |
| 22 | Associations between Physical Activity and Physical and Mental Health- A HUNT 3 Study. <i>Medicine and Science in Sports and Exercise</i> , 2011, 43, 1220-1228.   | 0.2 | 71        |
| 23 | The complexity of daily life walking in older adult community-dwelling fallers and non-fallers. <i>Journal of Biomechanics</i> , 2016, 49, 1420-1428.  | 0.9 | 69        |
| 24 | Long-Term Effects of Individually Tailored Physical Training and Activity on Physical Function, Well-Being and Cognition in Scandinavian Nursing Home Residents: A Randomized Controlled Trial. <i>Gerontology</i> , 2016, 62, 571-580.          | 1.4 | 68        |
| 25 | The FARSEEING real-world fall repository: a large-scale collaborative database to collect and share sensor signals from real-world falls. <i>European Review of Aging and Physical Activity</i> , 2016, 13, 8.                                   | 1.3 | 67        |
| 26 | Fatigue May Contribute to Reduced Physical Activity Among Older People: An Observational Study. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2016, 71, 670-676.  | 1.7 | 64        |
| 27 | Should trunk movement or footfall parameters quantify gait asymmetry in chronic stroke patients?. <i>Gait and Posture</i> , 2008, 27, 552-558.   | 0.6 | 62        |
| 28 | Predicting Trajectories of Functional Decline in 60- to 70-Year-Old People. <i>Gerontology</i> , 2018, 64, 212-221.  | 1.4 | 60        |
| 29 | Effect of physical training on urinary incontinence: a randomized parallel group trial in nursing homes. <i>Clinical Interventions in Aging</i> , 2012, 7, 45.   | 1.3 | 58        |
| 30 | Physical Activity Classification for Elderly People in Free-Living Conditions. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2019, 23, 197-207.   | 3.9 | 56        |
| 31 | Assessing physical functioning: a systematic review of quality of life measures developed for use in palliative care. <i>Palliative Medicine</i> , 2007, 21, 673-682.  | 1.3 | 51        |
| 32 | Recommendations for Standardizing Validation Procedures Assessing Physical Activity of Older Persons by Monitoring Body Postures and Movements. <i>Sensors</i> , 2014, 14, 1267-1277.  | 2.1 | 50        |
| 33 | Effect of in-hospital comprehensive geriatric assessment (CGA) in older people with hip fracture. The protocol of the Trondheim Hip Fracture Trial. <i>BMC Geriatrics</i> , 2011, 11, 18.  | 1.1 | 47        |
| 34 | A randomised controlled study of the long-term effects of exercise training on mortality in elderly people: study protocol for the Generation 100 study. <i>BMJ Open</i> , 2015, 5, e007519-e007519.   | 0.8 | 47        |
| 35 | Performance-based clinical tests of balance and muscle strength used in young seniors: a systematic literature review. <i>BMC Geriatrics</i> , 2019, 19, 9.  | 1.1 | 47        |
| 36 | Patient-focused endpoints in advanced cancer: Criterion-based validation of accelerometer-based activity monitoring. <i>Clinical Nutrition</i> , 2011, 30, 812-821.  | 2.3 | 46        |

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|----|--|-----|-----------|
| 37 | Identification of gait domains and key gait variables following hip fracture. BMC Geriatrics, 2015, 15, 150.   | 1.1 | 45        |
| 38 | The relationship between trunk control in sitting and during gait in children and adolescents with cerebral palsy. Developmental Medicine and Child Neurology, 2015, 57, 344-350.  | 1.1 | 45        |
| 39 | Comparison of programs for determining temporal-spatial gait variables from instrumented walkway data: PKmas versus GAITRite. BMC Research Notes, 2014, 7, 542.  | 0.6 | 41        |
| 40 | Brain Structure Covariance Associated With Gait Control in Aging. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2019, 74, 705-713.  | 1.7 | 41        |
| 41 | Changes in gait symmetry, gait velocity and self-reported function following total hip replacement. Journal of Rehabilitation Medicine, 2011, 43, 787-793.   | 0.8 | 39        |
| 42 | Altered vision destabilizes gait in older persons. Gait and Posture, 2009, 30, 233-238.  | 0.6 | 38        |
| 43 | Who benefits from orthogeriatric treatment? Results from the Trondheim hip-fracture trial. BMC Geriatrics, 2016, 16, 49.   | 1.1 | 38        |
| 44 | Development and delivery of patient treatment in the Trondheim Hip Fracture Trial. A new geriatric in-hospital pathway for elderly patients with hip fracture. BMC Research Notes, 2012, 5, 355.   | 0.6 | 37        |
| 45 | Designing for Movement Quality in Exergames: Lessons Learned from Observing Senior Citizens Playing Stepping Games. Gerontology, 2015, 61, 186-194.  | 1.4 | 35        |
| 46 | Conceptualizing a Dynamic Fall Risk Model Including Intrinsic Risks and Exposures. Journal of the American Medical Directors Association, 2017, 18, 921-927.   | 1.2 | 35        |
| 47 | Fall detection algorithms for real-world falls harvested from lumbar sensors in the elderly population: A machine learning approach. , 2016, 2016, 3712-3715.  |     | 34        |
| 48 | Protocol for the PreventIT feasibility randomised controlled trial of a lifestyle-integrated exercise intervention in young older adults. BMJ Open, 2019, 9, e023526.  | 0.8 | 34        |
| 49 | App-based Self-administrable Clinical Tests of Physical Function: Development and Usability Study. JMIR MHealth and UHealth, 2020, 8, e16507.  | 1.8 | 33        |
| 50 | Criteria of gait asymmetry in patients with hip osteoarthritis. Physiotherapy Theory and Practice, 2012, 28, 134-141.  | 0.6 | 32        |
| 51 | The Adapted Lifestyle-Integrated Functional Exercise Program for Preventing Functional Decline in Young Seniors: Development and Initial Evaluation. Gerontology, 2019, 65, 362-374.   | 1.4 | 32        |
| 52 | Consensus based framework for digital mobility monitoring. PLoS ONE, 2021, 16, e0256541.   | 1.1 | 31        |
| 53 | A First Step in the Development of an International Self-Report Instrument for Physical Functioning in Palliative Cancer Care: A Systematic Literature Review and an Expert Opinion Evaluation Study. Journal of Pain and Symptom Management, 2009, 37, 196-205. | 0.6 | 30        |
| 54 | Reliability and validity of the Trunk Impairment Scale in children and adolescents with cerebral palsy. Research in Developmental Disabilities, 2013, 34, 2075-2084.   | 1.2 | 30        |

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|----|--|-----|-----------|
| 55 | Improved Prediction of Falls in Community-Dwelling Older Adults Through Phase-Dependent Entropy of Daily-Life Walking. <i>Frontiers in Aging Neuroscience</i> , 2018, 10, 44.  | 1.7 | 30        |
| 56 | Concurrent validity and reliability of the Community Balance and Mobility scale in young-older adults. <i>BMC Geriatrics</i> , 2018, 18, 156.  | 1.1 | 30        |
| 57 | Gait characteristics in children and adolescents with cerebral palsy assessed with a trunk-worn accelerometer. <i>Research in Developmental Disabilities</i> , 2014, 35, 1773-1781.  | 1.2 | 29        |
| 58 | Exergaming in Older Adults: Movement Characteristics While Playing Stepping Games. <i>Frontiers in Psychology</i> , 2016, 7, 964.  | 1.1 | 29        |
| 59 | The long-term effect of being treated in a geriatric ward compared to an orthopaedic ward on six measures of free-living physical behavior 4 and 12 months after a hip fracture - a randomised controlled trial. <i>BMC Geriatrics</i> , 2015, 15, 160.  | 1.1 | 28        |
| 60 | A Physical Activity Reference Data-Set Recorded from Older Adults Using Body-Worn Inertial Sensors and Video Technologyâ€”The ADAPT Study Data-Set. <i>Sensors</i> , 2017, 17, 559.  | 2.1 | 28        |
| 61 | The Discriminant Value of Phase-Dependent Local Dynamic Stability of Daily Life Walking in Older Adult Community-Dwelling Fallers and Nonfallers. <i>BioMed Research International</i> , 2015, 2015, 1-11.   | 0.9 | 27        |
| 62 | A comparison study of local dynamic stability measures of daily life walking in older adult community-dwelling fallers and non-fallers. <i>Journal of Biomechanics</i> , 2016, 49, 1498-1503.  | 0.9 | 27        |
| 63 | Short-term repeatability of body sway during quiet standing in people with hemiparesis and in frail older adults11No commercial party having a direct financial interest in the results of the research supporting this article has or will confer a benefit on the author(s) or on any organization with which the author(s) is/are associated.. <i>Archives of Physical Medicine and Rehabilitation</i> , 2004, 85, 993-999. | 0.5 | 25        |
| 64 | Feasibility and changes in symptoms and functioning following inpatient cancer rehabilitation. <i>Acta Oncologica</i> , 2012, 51, 1070-1080.   | 0.8 | 25        |
| 65 | Performance Evaluation of State of the Art Systems for Physical Activity Classification of Older Subjects Using Inertial Sensors in a Real Life Scenario: A Benchmark Study. <i>Sensors</i> , 2016, 16, 2105.  | 2.1 | 25        |
| 66 | Interrater and test-retest reliability and validity of the Norwegian version of the BESTest and mini-BESTest in people with increased risk of falling. <i>BMC Geriatrics</i> , 2017, 17, 92.   | 1.1 | 25        |
| 67 | Short and long-term clinical effectiveness and cost-effectiveness of a late-phase community-based balance and gait exercise program following hip fracture. The EVA-Hip Randomised Controlled Trial. <i>PLoS ONE</i> , 2019, 14, e0224971.   | 1.1 | 25        |
| 68 | Smartphone Apps to Support Falls Rehabilitation Exercise: App Development and Usability and Acceptability Study. <i>JMIR MHealth and UHealth</i> , 2020, 8, e15460.  | 1.8 | 25        |
| 69 | Modulation of Gait During Visual Adaptation to Dark. <i>Journal of Motor Behavior</i> , 2006, 38, 118-125.   | 0.5 | 24        |
| 70 | Development of a clinical prediction model for the onset of functional decline in people aged 65â€“75 years: pooled analysis of four European cohort studies. <i>BMC Geriatrics</i> , 2019, 19, 179.   | 1.1 | 24        |
| 71 | One-year health and care costs after hip fracture for home-dwelling elderly patients in Norway: Results from the Trondheim Hip Fracture Trial. <i>Scandinavian Journal of Public Health</i> , 2016, 44, 791-798.   | 1.2 | 22        |
| 72 | Interventions for reducing sedentary behaviour in community-dwelling older adults. <i>The Cochrane Library</i> , 2021, 2021, CD012784.   | 1.5 | 20        |

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|----|---|-----|-----------|
| 73 | Multiple Days of Monitoring Are Needed to Obtain a Reliable Estimate of Physical Activity in Hip-Fracture Patients. <i>Journal of Aging and Physical Activity</i> , 2014, 22, 173-177.  | 0.5 | 18        |
| 74 | Complexity of Daily Physical Activity Is More Sensitive Than Conventional Metrics to Assess Functional Change in Younger Older Adults. <i>Sensors</i> , 2018, 18, 2032.   | 2.1 | 18        |
| 75 | Effect of 5 years of exercise training on the cardiovascular risk profile of older adults: the Generation 100 randomized trial. <i>European Heart Journal</i> , 2022, 43, 2065-2075.  | 1.0 | 17        |
| 76 | Measurement of physical activity in cancer survivors—a comparison of the HUNT 1 Physical Activity Questionnaire (HUNT 1 PA-Q) with the International Physical Activity Questionnaire (IPAQ) and aerobic capacity. <i>Supportive Care in Cancer</i> , 2013, 21, 449-458. | 1.0 | 16        |
| 77 | Treadmill Training or Progressive Strength Training to Improve Walking in People with Multiple Sclerosis? A Randomized Parallel Group Trial. <i>Physiotherapy Research International</i> , 2016, 21, 228-236.   | 0.7 | 16        |
| 78 | Towards holistic free-living assessment in Parkinson's disease: Unification of gait and fall algorithms with a single accelerometer. , 2016, 2016, 651-654.   |     | 16        |
| 79 | Change in Vision, Visual Disability, and Health After Cataract Surgery. <i>Optometry and Vision Science</i> , 2013, 90, 392-399.  | 0.6 | 15        |
| 80 | Predicting Advanced Balance Ability and Mobility with an Instrumented Timed Up and Go Test. <i>Sensors</i> , 2020, 20, 4987.  | 2.1 | 15        |
| 81 | Classical Machine Learning Versus Deep Learning for the Older Adults Free-Living Activity Classification. <i>Sensors</i> , 2021, 21, 4669.  | 2.1 | 15        |
| 82 | Stakeholder Attitudes Toward and Values Embedded in a Sensor-Enhanced Personal Emergency Response System. <i>Interacting With Computers</i> , 2016, 28, 598-611.  | 1.0 | 14        |
| 83 | Association Between Falls and Brain Subvolumes: Results from a Cross-Sectional Analysis in Healthy Older Adults. <i>Brain Topography</i> , 2017, 30, 272-280.   | 0.8 | 14        |
| 84 | My husband is not ill; he has memory loss - caregivers' perspectives on health care services for persons with dementia. <i>BMC Geriatrics</i> , 2019, 19, 75.   | 1.1 | 14        |
| 85 | The Association Between Gait Characteristics and Ambulatory Physical Activity in Older People: A Cross-Sectional and Longitudinal Observational Study Using Generation 100 Data. <i>Journal of Aging and Physical Activity</i> , 2017, 25, 10-19.                       | 0.5 | 13        |
| 86 | Brain gray matter volume associations with gait speed and related structural covariance networks in cognitively healthy individuals and in patients with mild cognitive impairment: A cross-sectional study. <i>Experimental Gerontology</i> , 2019, 122, 116-122.      | 1.2 | 13        |
| 87 | Fatigue Alters the Pattern of Physical Activity Behavior in Older Adults: Observational Analysis of Data from the Generation 100 Study. <i>Journal of Aging and Physical Activity</i> , 2016, 24, 633-641.  | 0.5 | 12        |
| 88 | Digital Technology to Deliver a Lifestyle-Integrated Exercise Intervention in Young Seniors—The PreventIT Feasibility Randomized Controlled Trial. <i>Frontiers in Digital Health</i> , 2020, 2, 10.  | 1.5 | 12        |
| 89 | Evaluating the Feasibility and Intercorrelation of Measurements on the Functioning of Residents Living in Scandinavian Nursing Homes. <i>Physical and Occupational Therapy in Geriatrics</i> , 2010, 28, 154-169.   | 0.2 | 11        |
| 90 | Interventions for reducing sedentary behaviour in community-dwelling older adults. <i>The Cochrane Library</i> , 2017, , .  | 1.5 | 11        |

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|-----|--|-----|-----------|
| 91  | Creating and Validating a Shortened Version of the Community Balance and Mobility Scale for Application in People Who Are 61 to 70 Years of Age. <i>Physical Therapy</i> , 2020, 100, 180-191.                                   | 1.1 | 11        |
| 92  | Gait, physical function, and physical activity in three groups of home-dwelling older adults with different severity of cognitive impairment – a cross-sectional study. <i>BMC Geriatrics</i> , 2021, 21, 670.                   | 1.1 | 10        |
| 93  | Familiarisation to body weight supported treadmill training for patients post-stroke. <i>Gait and Posture</i> , 2011, 34, 467-472.   | 0.6 | 9         |
| 94  | Effectiveness of Task Specific Gait and Balance Exercise 4€%Months After Hip Fracture: Protocol of a Randomized Controlled Trial – The Eva€Hip Study. <i>Physiotherapy Research International</i> , 2015, 20, 87-99.             | 0.7 | 9         |
| 95  | Video analysis validation of a real-time physical activity detection algorithm based on a single waist mounted tri-axial accelerometer sensor. , 2016, 2016, 4881-4884.  |     | 9         |
| 96  | Reading from the Black Box: What Sensors Tell Us about Resting and Recovery after Real-World Falls. <i>Gerontology</i> , 2018, 64, 90-95.  | 1.4 | 9         |
| 97  | Systematic content evaluation and review of measurement properties of questionnaires for measuring self-reported fatigue among older people. <i>Quality of Life Research</i> , 2015, 24, 2239-2255.                              | 1.5 | 8         |
| 98  | Attitudes Towards Adapted Lifestyle-Integrated Functional Exercise Developed for 60€70-Year-Olds: Perceptions of Participants and Trainers. <i>Gerontology</i> , 2019, 65, 599-609.  | 1.4 | 7         |
| 99  | Can smartphone technology be used to support an effective home exercise intervention to prevent falls amongst community dwelling older adults?: the TOGETHER feasibility RCT study protocol. <i>BMJ Open</i> , 2019, 9, e028100. | 0.8 | 7         |
| 100 | One-to-One and Group-Based Teleconferencing for Falls Rehabilitation: Usability, Acceptability, and Feasibility Study. <i>JMIR Rehabilitation and Assistive Technologies</i> , 2021, 8, e19690.                                  | 1.1 | 7         |
| 101 | Quantification of Outdoor Mobility by Use of Accelerometer-Measured Physical Behaviour. <i>BioMed Research International</i> , 2015, 2015, 1-7.  | 0.9 | 6         |
| 102 | Test€retest reliability of the Test of Infant Motor Performance Screening Items in infants at risk for impaired functional motor performance. <i>Early Human Development</i> , 2016, 93, 43-46.                                  | 0.8 | 6         |
| 103 | The association of basic and challenging motor capacity with mobility performance and falls in young seniors. <i>Archives of Gerontology and Geriatrics</i> , 2020, 90, 104134.  | 1.4 | 5         |
| 104 | Client, caregiver, volunteer, and therapist views on a voluntary supported group exercise programme for older adults with dementia. <i>BMC Geriatrics</i> , 2020, 20, 235.   | 1.1 | 5         |
| 105 | Balance and Gait After First Minor Ischemic Stroke in People 70 Years of Age or Younger: A Prospective Observational Cohort Study. <i>Physical Therapy</i> , 2020, 100, 798-806.   | 1.1 | 5         |
| 106 | Designing Smart Home Technology for Fall Prevention in Older People. <i>Communications in Computer and Information Science</i> , 2014, , 485-490.  | 0.4 | 5         |
| 107 | Development of a computer-administered mobility questionnaire. <i>Supportive Care in Cancer</i> , 2011, 19, 745-755.   | 1.0 | 3         |
| 108 | Advances in Long Term Physical Behaviour Monitoring. <i>BioMed Research International</i> , 2016, 2016, 1-2.   | 0.9 | 3         |

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|-----|--|-----|-----------|
| 109 | Template-Based Recognition of Human Locomotion in IMU Sensor Data Using Dynamic Time Warping. Sensors, 2021, 21, 2601.   | 2.1 | 3         |
| 110 | The Potential for Technology to Enhance Physical Activity Among Older People. , 2018, , 713-731.   |     | 2         |
| 111 | Typical temporal statistics associated with postural transitions that were recorded from older adults during a both a semi-structured and a free-living protocol recorded using video technology. Gait and Posture, 2017, 57, 23-24. | 0.6 | 1         |