

# 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	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
2	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
3	Template-Based Recognition of Human Locomotion in IMU Sensor Data Using Dynamic Time Warping. <i>Sensors</i> , 2021, 21, 2601.	2.1	3
4	Interventions for reducing sedentary behaviour in community-dwelling older adults. <i>The Cochrane Library</i> , 2021, 2021, CD012784.	1.5	20
5	Classical Machine Learning Versus Deep Learning for the Older Adults Free-Living Activity Classification. <i>Sensors</i> , 2021, 21, 4669.	2.1	15
6	Consensus based framework for digital mobility monitoring. <i>PLoS ONE</i> , 2021, 16, e0256541.	1.1	31
7	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
8	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
9	Effect of exercise training for five years on all cause mortality in older adults—the Generation 100 study: randomised controlled trial. <i>BMJ, The</i> , 2020, 371, m3485.	3.0	72
10	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
11	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
12	Predicting Advanced Balance Ability and Mobility with an Instrumented Timed Up and Go Test. <i>Sensors</i> , 2020, 20, 4987.	2.1	15
13	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
14	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
15	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
16	App-based Self-administrable Clinical Tests of Physical Function: Development and Usability Study. <i>JMIR MHealth and UHealth</i> , 2020, 8, e16507.	1.8	33
17	Brain Structure Covariance Associated With Gait Control in Aging. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2019, 74, 705-713.	1.7	41
18	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

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19	Development of a clinical prediction model for the onset of functional decline in people aged 65–75 years: pooled analysis of four European cohort studies. <i>BMC Geriatrics</i> , 2019, 19, 179.	1.1	24
20	The Adapted Lifestyle-Integrated Functional Exercise Program for Preventing Functional Decline in Young Seniors: Development and Initial Evaluation. <i>Gerontology</i> , 2019, 65, 362-374.	1.4	32
21	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
22	Protocol for the PreventIT feasibility randomised controlled trial of a lifestyle-integrated exercise intervention in young older adults. <i>BMJ Open</i> , 2019, 9, e023526.	0.8	34
23	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
24	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
25	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
26	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
27	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
28	Predicting Trajectories of Functional Decline in 60- to 70-Year-Old People. <i>Gerontology</i> , 2018, 64, 212-221.	1.4	60
29	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
30	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
31	The Potential for Technology to Enhance Physical Activity Among Older People. , 2018, , 713-731.		2
32	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
33	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
34	Conceptualizing a Dynamic Fall Risk Model Including Intrinsic Risks and Exposures. <i>Journal of the American Medical Directors Association</i> , 2017, 18, 921-927.	1.2	35
35	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. <i>Gait and Posture</i> , 2017, 57, 23-24.	0.6	1
36	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

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37	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
38	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
39	Interventions for reducing sedentary behaviour in community-dwelling older adults. <i>The Cochrane Library</i> , 2017, , .	1.5	11
40	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
41	Mobile Health Applications to Promote Active and Healthy Ageing. <i>Sensors</i> , 2017, 17, 622.	2.1	151
42	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
43	Advances in Long Term Physical Behaviour Monitoring. <i>BioMed Research International</i> , 2016, 2016, 1-2.	0.9	3
44	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
45	Exergaming in Older Adults: Movement Characteristics While Playing Stepping Games. <i>Frontiers in Psychology</i> , 2016, 7, 964.	1.1	29
46	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
47	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
48	Towards holistic free-living assessment in Parkinson's disease: Unification of gait and fall algorithms with a single accelerometer. , 2016, 2016, 651-654.		16
49	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
50	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
51	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
52	Fall detection algorithms for real-world falls harvested from lumbar sensors in the elderly population: A machine learning approach. , 2016, 2016, 3712-3715.		34
53	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
54	Who benefits from orthogeriatric treatment? Results from the Trondheim hip-fracture trial. <i>BMC Geriatrics</i> , 2016, 16, 49.	1.1	38

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55	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
56	Testâ€“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
57	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
58	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
59	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
60	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
61	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
62	Identification of gait domains and key gait variables following hip fracture. <i>BMC Geriatrics</i> , 2015, 15, 150.	1.1	45
63	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
64	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
65	Quantification of Outdoor Mobility by Use of Accelerometer-Measured Physical Behaviour. <i>BioMed Research International</i> , 2015, 2015, 1-7.	0.9	6
66	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
67	Comprehensive geriatric care for patients with hip fractures: a prospective, randomised, controlled trial. <i>Lancet, The</i> , 2015, 385, 1623-1633.	6.3	449
68	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
69	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
70	Effectiveness of Task Specific Gait and Balance Exercise 4â€“Months After Hip Fracture: Protocol of a Randomized Controlled Trial â€“ The Evaâ€“Hip Study. <i>Physiotherapy Research International</i> , 2015, 20, 87-99.	0.7	9
71	The relationship between trunk control in sitting and during gait in children and adolescents with cerebral palsy. <i>Developmental Medicine and Child Neurology</i> , 2015, 57, 344-350.	1.1	45
72	Designing for Movement Quality in Exergames: Lessons Learned from Observing Senior Citizens Playing Stepping Games. <i>Gerontology</i> , 2015, 61, 186-194.	1.4	35

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73	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
74	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
75	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
76	Comparison of programs for determining temporal-spatial gait variables from instrumented walkway data: PKmas versus GAITRite. <i>BMC Research Notes</i> , 2014, 7, 542.	0.6	41
77	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
78	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
79	Designing Smart Home Technology for Fall Prevention in Older People. <i>Communications in Computer and Information Science</i> , 2014, , 485-490.	0.4	5
80	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
81	Reliability and validity of the Trunk Impairment Scale in children and adolescents with cerebral palsy. <i>Research in Developmental Disabilities</i> , 2013, 34, 2075-2084.	1.2	30
82	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
83	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
84	Change in Vision, Visual Disability, and Health After Cataract Surgery. <i>Optometry and Vision Science</i> , 2013, 90, 392-399.	0.6	15
85	Feasibility and changes in symptoms and functioning following inpatient cancer rehabilitation. <i>Acta Oncologica</i> , 2012, 51, 1070-1080.	0.8	25
86	Criteria of gait asymmetry in patients with hip osteoarthritis. <i>Physiotherapy Theory and Practice</i> , 2012, 28, 134-141.	0.6	32
87	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
88	Development and delivery of patient treatment in the Trondheim Hip Fracture Trial. A new geriatric in-hospital pathway for elderly patients with hip fracture. <i>BMC Research Notes</i> , 2012, 5, 355.	0.6	37
89	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
90	Familiarisation to body weight supported treadmill training for patients post-stroke. <i>Gait and Posture</i> , 2011, 34, 467-472.	0.6	9

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91	Changes in gait symmetry, gait velocity and self-reported function following total hip replacement. <i>Journal of Rehabilitation Medicine</i> , 2011, 43, 787-793.	0.8	39
92	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
93	Development of a computer-administered mobility questionnaire. <i>Supportive Care in Cancer</i> , 2011, 19, 745-755.	1.0	3
94	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
95	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
96	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
97	Validation of the Falls Efficacy Scale-International in fall-prone older persons. <i>Age and Ageing</i> , 2010, 39, 259-259.	0.7	75
98	Gait variability measures may represent different constructs. <i>Gait and Posture</i> , 2010, 32, 98-101.	0.6	82
99	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
100	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. <i>Journal of Pain and Symptom Management</i> , 2009, 37, 196-205.	0.6	30
101	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
102	Altered vision destabilizes gait in older persons. <i>Gait and Posture</i> , 2009, 30, 233-238.	0.6	38
103	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
104	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
105	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
106	Modulation of Gait During Visual Adaptation to Dark. <i>Journal of Motor Behavior</i> , 2006, 38, 118-125.	0.5	24
107	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
108	Estimation of gait cycle characteristics by trunk accelerometry. <i>Journal of Biomechanics</i> , 2004, 37, 121-126.	0.9	574

#	ARTICLE	IF	CITATIONS
109	Short-term repeatability of body sway during quiet standing in people with hemiparesis and in frail older adults 11No 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.. Archives of Physical Medicine and Rehabilitation, 2004, 85, 888-898.	0.5	25
110	Balance and gait in children with dyslexia. Experimental Brain Research, 2003, 150, 237-244.	0.7	72
111	The effect of gait speed on lateral balance control during walking in healthy elderly. Gait and Posture, 2003, 18, 27-36.	0.6	147