

# Raija Korpelainen

## List of Publications by Year in descending order

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Version: 2024-02-01

119  
papers

16,724  
citations

109264

35  
h-index

22147

113  
g-index

120  
all docs

120  
docs citations

120  
times ranked

25479  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sensitivity and False Alarm Rate of a Fall Sensor in Long-Term Fall Detection in the Elderly. <i>Gerontology</i> , 2015, 61, 61-68.	1.4	12,584
2	Risk Factors for Recurrent Stress Fractures in Athletes. <i>American Journal of Sports Medicine</i> , 2001, 29, 304-310.	1.9	299
3	The Built Environment as a Determinant of Physical Activity: A Systematic Review of Longitudinal Studies and Natural Experiments. <i>Annals of Behavioral Medicine</i> , 2018, 52, 239-251.	1.7	238
4	Modic Changes in Endplates of Lumbar Vertebral Bodies. <i>Spine</i> , 2007, 32, 1116-1122.	1.0	225
5	Intensity of exercise is associated with bone density change in premenopausal women. <i>Osteoporosis International</i> , 2006, 17, 455-463.	1.3	154
6	Effect of impact exercise on bone mineral density in elderly women with low BMD: a population-based randomized controlled 30-month intervention. <i>Osteoporosis International</i> , 2006, 17, 109-118.	1.3	147
7	Effects of high-impact exercise on bone mineral density: a randomized controlled trial in premenopausal women. <i>Osteoporosis International</i> , 2005, 16, 191-197.	1.3	146
8	Effect of impact exercise and its intensity on bone geometry at weight-bearing tibia and femur. <i>Bone</i> , 2007, 40, 604-611.	1.4	117
9	Comparison of real-life accidental falls in older people with experimental falls in middle-aged test subjects. <i>Gait and Posture</i> , 2012, 35, 500-505.	0.6	111
10	Use of Information and Communication Technologies Among Older People With and Without Frailty: A Population-Based Survey. <i>Journal of Medical Internet Research</i> , 2017, 19, e29.	2.1	98
11	Lifestyle factors are associated with osteoporosis in lean women but not in normal and overweight women: a population-based cohort study of 1222 women. <i>Osteoporosis International</i> , 2003, 14, 34-43.	1.3	94
12	Calibration and validation of accelerometer-based activity monitors: A systematic review of machine-learning approaches. <i>Gait and Posture</i> , 2019, 68, 285-299.	0.6	90
13	Association of Abdominal Obesity with Lumbar Disc Degeneration – A Magnetic Resonance Imaging Study. <i>PLoS ONE</i> , 2013, 8, e56244.	1.1	81
14	Assessment of Association Between Low Back Pain and Paraspinal Muscle Atrophy Using Opposed-Phase Magnetic Resonance Imaging. <i>Spine</i> , 2011, 36, 1961-1968.	1.0	79
15	Postural sway and falls in Parkinson's disease: A regression approach. <i>Movement Disorders</i> , 2007, 22, 1927-1935.	2.2	76
16	Effect of daily physical activity on proximal femur. <i>Clinical Biomechanics</i> , 2006, 21, 1-7.	0.5	70
17	Lifelong risk factors for osteoporosis and fractures in elderly women with low body mass index – A population-based study. <i>Bone</i> , 2006, 39, 385-391.	1.4	69
18	Recurrent falls and mortality in Parkinson's disease: a prospective two-year follow-up study. <i>Acta Neurologica Scandinavica</i> , 2011, 123, 193-200.	1.0	68

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19	Are the determinants of vertebral endplate changes and severe disc degeneration in the lumbar spine the same? A magnetic resonance imaging study in middle-aged male workers. <i>BMC Musculoskeletal Disorders</i> , 2008, 9, 51.	0.8	66
20	Orthostatic hypotension, balance and falls in Parkinson's disease. <i>Movement Disorders</i> , 2009, 24, 745-751.	2.2	65
21	Genetic Factors Are Associated With Modic Changes in Endplates of Lumbar Vertebral Bodies. <i>Spine</i> , 2008, 33, 1236-1241.	1.0	60
22	Lifestyle intervention has a beneficial effect on eating behavior and long-term weight loss in obese adults. <i>Eating Behaviors</i> , 2015, 18, 179-185.	1.1	53
23	Effect of wrist-worn activity monitor feedback on physical activity behavior: A randomized controlled trial in Finnish young men. <i>Preventive Medicine Reports</i> , 2015, 2, 628-634.	0.8	52
24	Long-term Outcomes of Exercise. <i>Archives of Internal Medicine</i> , 2010, 170, 1548-56.	4.3	50
25	Effect of Exercise on Extraskeletal Risk Factors for Hip Fractures in Elderly Women With Low BMD: A Population-Based Randomized Controlled Trial. <i>Journal of Bone and Mineral Research</i> , 2006, 21, 772-779.	3.1	49
26	Mobility and balance in Parkinson's disease: a population-based study. <i>European Journal of Neurology</i> , 2009, 16, 105-111.	1.7	48
27	Acceleration slope of exercise-induced impacts is a determinant of changes in bone density. <i>Journal of Biomechanics</i> , 2007, 40, 2967-2974.	0.9	45
28	National trends in total cholesterol obscure heterogeneous changes in HDL and non-HDL cholesterol and total-to-HDL cholesterol ratio: a pooled analysis of 458 population-based studies in Asian and Western countries. <i>International Journal of Epidemiology</i> , 2020, 49, 173-192.	0.9	44
29	Gamified physical activation of young men – a Multidisciplinary Population-Based Randomized Controlled Trial (MOPO study). <i>BMC Public Health</i> , 2013, 13, 32.	1.2	41
30	Association between visual degeneration of intervertebral discs and the apparent diffusion coefficient. <i>Magnetic Resonance Imaging</i> , 2009, 27, 641-647.	1.0	40
31	Body mass index is associated with lumbar disc degeneration in young Finnish males: subsample of Northern Finland birth cohort study 1986. <i>BMC Musculoskeletal Disorders</i> , 2013, 14, 87.	0.8	39
32	Measuring Physical Activity in Free-Living Conditions – Comparison of Three Accelerometry-Based Methods. <i>Frontiers in Physiology</i> , 2016, 7, 681.	1.3	39
33	Effect of impact exercise on bone metabolism. <i>Osteoporosis International</i> , 2009, 20, 1725-1733.	1.3	38
34	Risk Factors for Cervical and Trochanteric Hip Fractures in Elderly Women: A Population-Based 10-Year Follow-Up Study. <i>Calcified Tissue International</i> , 2010, 87, 44-51.	1.5	38
35	Effect of office-based brief high-impact exercise on bone mineral density in healthy premenopausal women: the Sendai Bone Health Concept Study. <i>Journal of Bone and Mineral Metabolism</i> , 2010, 28, 568-577.	1.3	36
36	Association between chronic diseases and falls among a sample of older people in Finland. <i>BMC Geriatrics</i> , 2020, 20, 225.	1.1	35

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37	Daily impact score in long-term acceleration measurements of exercise. <i>Journal of Biomechanics</i> , 2010, 43, 1960-1964.	0.9	34
38	Effect of Impact Exercise on Physical Performance and Cardiovascular Risk Factors. <i>Medicine and Science in Sports and Exercise</i> , 2007, 39, 756-763.	0.2	33
39	Effects of Leisure-Time Physical Activity on Vertebral Dimensions in the Northern Finland Birth Cohort 1966. <i>Scientific Reports</i> , 2016, 6, 27844.	1.6	33
40	Isometric Trunk Muscle Strength and Body Sway in Relation to Low Back Pain in Young Adults. <i>Spine</i> , 2008, 33, E435-E441.	1.0	32
41	Feasibility of Gamified Mobile Service Aimed at Physical Activation in Young Men: Population-Based Randomized Controlled Study (MOPO). <i>JMIR MHealth and UHealth</i> , 2017, 5, e146.	1.8	32
42	Assessment of Risk of Femoral Neck Fracture with Radiographic Texture Parameters: A Retrospective Study. <i>Radiology</i> , 2014, 272, 184-191.	3.6	31
43	Health promotion activities of sports clubs and coaches, and health and health behaviours in youth participating in sports clubs: the Health Promoting Sports Club study. <i>BMJ Open Sport and Exercise Medicine</i> , 2015, 1, e000034.	1.4	31
44	Association Between Overweight and Low Back Pain. <i>Spine</i> , 2013, 38, 1026-1033.	1.0	30
45	Fitness, Fatness, Physical Activity, and Autonomic Function in Midlife. <i>Medicine and Science in Sports and Exercise</i> , 2017, 49, 2459-2468.	0.2	30
46	Exercise capacity and mortality – a follow-up study of 3033 subjects referred to clinical exercise testing. <i>Annals of Medicine</i> , 2016, 48, 359-366.	1.5	29
47	Effect of tailored, gamified, mobile physical activity intervention on life satisfaction and self-rated health in young adolescent men: A population-based, randomized controlled trial (MOPO study). <i>Computers in Human Behavior</i> , 2017, 72, 13-22.	5.1	28
48	Compositional Associations of Sleep and Activities within the 24-h Cycle with Cardiometabolic Health Markers in Adults. <i>Medicine and Science in Sports and Exercise</i> , 2021, 53, 324-332.	0.2	28
49	Parental predictors of fruit and vegetable consumption in treatment-seeking overweight children. <i>Journal of Human Nutrition and Dietetics</i> , 2011, 24, 47-53.	1.3	27
50	Intensity and temporal patterns of physical activity and cardiovascular disease risk in midlife. <i>Preventive Medicine</i> , 2019, 124, 33-41.	1.6	27
51	Information behavior in stages of exercise behavior change. <i>Journal of the Association for Information Science and Technology</i> , 2012, 63, 1804-1819.	2.6	26
52	Chronotypes and objectively measured physical activity and sedentary time at midlife. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2020, 30, 1930-1938.	1.3	26
53	Lifestyle risk factors for obesity in 7-year-old children. <i>Obesity Research and Clinical Practice</i> , 2009, 3, 99-107.	0.8	25
54	Lifestyle factors and site-specific risk of hip fracture in community dwelling older women – a 13-year prospective population-based cohort study. <i>BMC Musculoskeletal Disorders</i> , 2012, 13, 173.	0.8	25

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55	Everyday health information literacy among young men compared with adults with high risk for metabolic syndrome – a cross-sectional population-based study. <i>Journal of Information Science</i> , 2016, 42, 344-355.	2.0	25
56	Physical activity from adolescence to young adulthood: patterns of change, and their associations with activity domains and sedentary time. <i>International Journal of Behavioral Nutrition and Physical Activity</i> , 2021, 18, 85.	2.0	25
57	Physical activity and fitness in 8-year-old overweight and normal weight children and their parents. <i>International Journal of Circumpolar Health</i> , 2012, 71, 17621.	0.5	23
58	Ruptures of the Achilles Tendon: Relationship to Inequality in Length of Legs and to Patterns in the Foot and Ankle. <i>Foot and Ankle International</i> , 1998, 19, 683-687.	1.1	20
59	Fall detection in the older people: from laboratory to real-life. <i>Proceedings of the Estonian Academy of Sciences</i> , 2014, 63, 253.	0.9	20
60	Feasibility of mobile mental wellness training for older adults. <i>Geriatric Nursing</i> , 2018, 39, 499-505.	0.9	20
61	Physical Activity, Residential Environment, and Nature Relatedness in Young Men – A Population-Based MOPO Study. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 2322.	1.2	18
62	Accumulation patterns of sedentary time and breaks and their association with cardiometabolic health markers in adults. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2021, 31, 1489-1507.	1.3	18
63	Association of lumbar arterial stenosis with low back symptoms: A cross-sectional study using two-dimensional time-of-flight magnetic resonance angiography. <i>Acta Radiologica</i> , 2009, 50, 48-54.	0.5	17
64	Everyday health information literacy in relation to health behavior and physical fitness: A population-based study among young men. <i>Library and Information Science Research</i> , 2016, 38, 308-318.	1.2	16
65	Physical activity is associated with cardiac autonomic function in adolescent men. <i>PLoS ONE</i> , 2019, 14, e0222121.	1.1	16
66	Correlates of physical activity behavior in adults: a data mining approach. <i>International Journal of Behavioral Nutrition and Physical Activity</i> , 2020, 17, 94.	2.0	16
67	Physical Activity, Screen Time and Sleep among Youth Participating and Non-Participating in Organized Sports – The Finnish Health Promoting Sports Club (FHPSC) Study. <i>Advances in Physical Education</i> , 2016, 06, 378-388.	0.2	16
68	Reproducibility and Reference Values of Inclinometric Balance and Isometric Trunk Muscle Strength Measurements in Finnish Young Adults. <i>Journal of Strength and Conditioning Research</i> , 2009, 23, 1618-1626.	1.0	15
69	Low back and neck and shoulder pain in members and non-members of adolescents' sports clubs: the Finnish Health Promoting Sports Club (FHPSC) study. <i>BMC Musculoskeletal Disorders</i> , 2016, 17, 263.	0.8	15
70	Time-course of exercise and its association with 12-month bone changes. <i>BMC Musculoskeletal Disorders</i> , 2009, 10, 138.	0.8	14
71	High-impact exercise in adulthood and vertebral dimensions in midlife - the Northern Finland Birth Cohort 1966 study. <i>BMC Musculoskeletal Disorders</i> , 2017, 18, 433.	0.8	14
72	Evaluating and Enhancing the Generalization Performance of Machine Learning Models for Physical Activity Intensity Prediction From Raw Acceleration Data. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020, 24, 27-38.	3.9	14

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73	Health information literacy and stage of change in relation to physical activity information seeking and avoidance: A population-based study among young men. Proceedings of the Association for Information Science and Technology, 2015, 52, 1-11.	0.3	13
74	Profiles of sedentary and non-sedentary young men – a population-based MOPO study. BMC Public Health, 2015, 15, 1164.	1.2	13
75	Lifelong Physical Activity and Cardiovascular Autonomic Function in Midlife. Medicine and Science in Sports and Exercise, 2016, 48, 1506-1513.	0.2	13
76	Association of lumbar artery narrowing, degenerative changes in disc and endplate and apparent diffusion in disc on postcontrast enhancement of lumbar intervertebral disc. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2009, 22, 101-109.	1.1	12
77	Measurement of osteogenic exercise – how to interpret accelerometric data?. Frontiers in Physiology, 2011, 2, 73.	1.3	12
78	Musculoskeletal examination in young athletes and non-athletes: the Finnish Health Promoting Sports Club (FHPSC) study. BMJ Open Sport and Exercise Medicine, 2018, 4, e000376.	1.4	12
79	Residential relocation trajectories and neighborhood density, mixed land use and access networks as predictors of walking and bicycling in the Northern Finland Birth Cohort 1966. International Journal of Behavioral Nutrition and Physical Activity, 2019, 16, 88.	2.0	12
80	Health behaviours associated with video gaming in adolescent men: a cross-sectional population-based MOPO study. BMC Public Health, 2020, 20, 415.	1.2	12
81	Leisure-time physical activity is associated with socio-economic status beyond income – Cross-sectional survey of the Northern Finland Birth Cohort 1966 study. Economics and Human Biology, 2021, 41, 100969.	0.7	12
82	Coaches™ Health Promotion Activity and Substance Use in Youth Sports. Societies, 2017, 7, 4.	0.8	11
83	Disordered eating behavior, health and motives to exercise in young men: cross-sectional population-based MOPO study. BMC Public Health, 2016, 16, 483.	1.2	9
84	Å–MPSQ-Short Score and determinants of chronic pain: cross-sectional results from a middle-aged birth cohort. European Journal of Physical and Rehabilitation Medicine, 2018, 54, 34-40.	1.1	9
85	Prolonged bouts of sedentary time and cardiac autonomic function in midlife. Translational Sports Medicine, 2019, 2, 341-350.	0.5	9
86	Objectively Measured Physical Activity Is Associated with Vertebral Size in Midlife. Medicine and Science in Sports and Exercise, 2019, 51, 1606-1612.	0.2	9
87	Resting Electrocardiogram and Blood Pressure in Young Endurance and Nonendurance Athletes and Nonathletes. Journal of Athletic Training, 2021, 56, 484-490.	0.9	9
88	Screening everyday health information literacy among four populations. Health Information and Libraries Journal, 2020, 37, 192-203.	1.3	8
89	The associations between adolescents™ sports club participation and dietary habits. Translational Sports Medicine, 2021, 4, 617-626.	0.5	8
90	Individual Factors Affecting Preferences for Feedback Message Tactics in the Contexts of Physical Activity. Journal of Health Communication, 2015, 20, 220-229.	1.2	7

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91	Acute and overuse injuries among sports club members and non-members: the Finnish Health Promoting Sports Club (FHPSC) study. <i>BMC Musculoskeletal Disorders</i> , 2019, 20, 32.	0.8	7
92	Agreement between an Image-Based Dietary Assessment Method and a Written Food Diary among Adolescents with Type 1 Diabetes. <i>Nutrients</i> , 2021, 13, 1319.	1.7	7
93	Relationship Between Everyday Health Information Literacy and Attitudes Towards Mobile Technology Among Older People. <i>Communications in Computer and Information Science</i> , 2018, , 450-459.	0.4	7
94	Detecting and profiling sedentary young men using machine learning algorithms. , 2014, , .		6
95	Association between low-frequency ultrasound and hip fracturesâ€™comparison with DXA-based BMD. <i>BMC Musculoskeletal Disorders</i> , 2014, 15, 208.	0.8	6
96	Satellite Imaging-Based Residential Greenness and Accelerometry Measured Physical Activity at Midlifeâ€™Population-Based Northern Finland Birth Cohort 1966 Study. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 9202.	1.2	6
97	Cross-cultural comparison of depressive symptoms on the Beck Depression Inventory-II, across six population samples. <i>BJPsych Open</i> , 2022, 8, e46.	0.3	6
98	Reliability of an inclinometric method for assessment of body sway. <i>Technology and Health Care</i> , 2005, 13, 115-124.	0.5	5
99	Gamified Persuasion. <i>International Journal of Sociotechnology and Knowledge Development</i> , 2014, 6, 1-17.	0.4	5
100	Opinions and use of mobile information technology among older people in northern finland - preliminary results of a population based study. <i>Proceedings of the Association for Information Science and Technology</i> , 2016, 53, 1-5.	0.3	5
101	Association Between Vertebral Dimensions and Lumbar Modic Changes. <i>Spine</i> , 2021, 46, E415-E425.	1.0	5
102	Accelerometry-Based Characteristics of Overall Sedentary Behavior and Sitting in Middle-Aged Adults. <i>Measurement in Physical Education and Exercise Science</i> , 2019, 23, 249-257.	1.3	4
103	Parental Factors Related to Physical Activity among Adolescent Men Living in Built and Natural Environment: A Population-Based MOPO Study. <i>Journal of Environmental and Public Health</i> , 2021, 2021, 1-9.	0.4	4
104	High insulin levels are positively associated with peripheral nervous system function. <i>Acta Neurologica Scandinavica</i> , 2009, 119, 107-112.	1.0	3
105	Exercise and Fitness Are Related to Peripheral Nervous System Function in Overweight Adults. <i>Medicine and Science in Sports and Exercise</i> , 2010, 42, 1241-1245.	0.2	3
106	Association between accelerometer-measured physical activity, glucose metabolism, and waist circumference in older adults. <i>Diabetes Research and Clinical Practice</i> , 2021, 178, 108937.	1.1	3
107	Gaming for health across various areas of life. , 2018, , .		2
108	Perceived loneliness among home-dwelling older adults with and without memory disorder: A population-based study. <i>Nordic Journal of Nursing Research</i> , 2019, 39, 76-84.	0.6	2

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109	Association between device-measured physical activity and lumbar Modic changes. BMC Musculoskeletal Disorders, 2020, 21, 630.	0.8	2
110	Haemoglobin, iron status and lung function of adolescents participating in organised sports in the Finnish Health Promoting Sports Club Study. BMJ Open Sport and Exercise Medicine, 2020, 6, e000804.	1.4	2
111	Physical activity profiles and glucose metabolism – A population-based cross-sectional study in older adults. Translational Sports Medicine, 2021, 4, 439.	0.5	2
112	Software Design Principles for Digital Behavior Change Interventions - Lessons Learned from the MOPO Study. , 2016, , .		2
113	Association between the strain rate of exercise-induced impacts and changes in bone density. Journal of Biomechanics, 2006, 39, S22.	0.9	1
114	Association of Insulin and Cholesterol Levels With Peripheral Nervous System Function in Overweight Adults: A 3-Year Follow-up. Journal of Clinical Neurophysiology, 2017, 34, 492-496.	0.9	1
115	Computer game and wearable sensors based approach to promote physical activity for young men. , 2017, , .		1
116	Associations of fitness and physical activity with orthostatic responses of heart rate and blood pressure at midlife. Scandinavian Journal of Medicine and Science in Sports, 2019, 29, 874-885.	1.3	1
117	Infant motor development and physical activity and sedentary time at midlife. Scandinavian Journal of Medicine and Science in Sports, 2021, 31, 1450-1460.	1.3	1
118	Accelerometer-measured physical activity is associated with knee breadth in middle-aged Finns – a population-based study. BMC Musculoskeletal Disorders, 2022, 23, .	0.8	1
119	Cross-Sectional Associations of Sedentary Behavior and Sitting with Serum Lipid Biomarkers in Midlife. Medicine and Science in Sports and Exercise, 2022, 54, 1261-1270.	0.2	0