

# Jaakko Niinimäki

## List of Publications by Year in descending order

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124  
papers

4,541  
citations

94433

37  
h-index

114465

63  
g-index

125  
all docs

125  
docs citations

125  
times ranked

4185  
citing authors

#	ARTICLE	IF	CITATIONS
1	Vertebral endplate signal changes (Modic change): a systematic literature review of prevalence and association with non-specific low back pain. <i>European Spine Journal</i> , 2008, 17, 1407-1422.	2.2	380
2	Modic Changes in Endplates of Lumbar Vertebral Bodies. <i>Spine</i> , 2007, 32, 1116-1122.	2.0	225
3	Does Lumbar Disc Degeneration on Magnetic Resonance Imaging Associate With Low Back Symptom Severity in Young Finnish Adults?. <i>Spine</i> , 2011, 36, 2180-2189.	2.0	178
4	A Three-Year Follow-up of Lumbar Spine Endplate (Modic) Changes. <i>Spine</i> , 2006, 31, 1714-1718.	2.0	172
5	The Treatment of Disc Herniation-Induced Sciatica With Infliximab. <i>Spine</i> , 2006, 31, 2759-2766.	2.0	161
6	Determinants of Spontaneous Resorption of Intervertebral Disc Herniations. <i>Spine</i> , 2006, 31, 1247-1252.	2.0	155
7	Prevalence of Degenerative Imaging Findings in Lumbar Magnetic Resonance Imaging Among Young Adults. <i>Spine</i> , 2009, 34, 1716-1721.	2.0	141
8	Efficacy of Infliximab for Disc Herniation-Induced Sciatica. <i>Spine</i> , 2004, 29, 2115-2119.	2.0	118
9	The Treatment of Disc Herniation-Induced Sciatica With Infliximab. <i>Spine</i> , 2005, 30, 2724-2728.	2.0	113
10	Modic changesâ€™ Their associations with low back pain and activity limitation: A systematic literature review and meta-analysis. <i>PLoS ONE</i> , 2018, 13, e0200677.	2.5	106
11	Tendon Length, Calf Muscle Atrophy, and Strength Deficit After Acute Achilles Tendon Rupture. <i>Journal of Bone and Joint Surgery - Series A</i> , 2017, 99, 1509-1515.	3.0	102
12	Tumor Necrosis Factor-Î± Monoclonal Antibody, Infliximab, Used to Manage Severe Sciatica. <i>Spine</i> , 2003, 28, 750-753.	2.0	93
13	Association between changes in lumbar Modic changes and low back symptoms over a two-year period. <i>BMC Musculoskeletal Disorders</i> , 2015, 16, 98.	1.9	81
14	Association of Abdominal Obesity with Lumbar Disc Degeneration â€” A Magnetic Resonance Imaging Study. <i>PLoS ONE</i> , 2013, 8, e56244.	2.5	81
15	Assessment of Association Between Low Back Pain and Paraspinal Muscle Atrophy Using Opposed-Phase Magnetic Resonance Imaging. <i>Spine</i> , 2011, 36, 1961-1968.	2.0	79
16	Rotational Dynamics of the Normal Distal Tibiofibular Joint With Weight-Bearing Computed Tomography. <i>Foot and Ankle International</i> , 2016, 37, 627-635.	2.3	77
17	Disability in end-stage knee osteoarthritis. <i>Disability and Rehabilitation</i> , 2009, 31, 370-380.	1.8	75
18	Posterior Translation of the Fibula May Indicate Malreduction. <i>Journal of Orthopaedic Trauma</i> , 2014, 28, 205-209.	1.4	74

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19	Genetic susceptibility of intervertebral disc degeneration among young Finnish adults. <i>BMC Medical Genetics</i> , 2011, 12, 153.	2.1	73
20	Soleus Atrophy Is Common After the Nonsurgical Treatment of Acute Achilles Tendon Ruptures: A Randomized Clinical Trial Comparing Surgical and Nonsurgical Functional Treatments. <i>American Journal of Sports Medicine</i> , 2017, 45, 1395-1404.	4.2	73
21	Initial experience with a wireless personal digital assistant as a teleradiology terminal for reporting emergency computerized tomography scans. <i>Journal of Telemedicine and Telecare</i> , 2000, 6, 45-49.	2.7	68
22	Association of Modic Changes, Schmorl's Nodes, Spondylolytic Defects, High-Intensity Zone Lesions, Disc Herniations, and Radial Tears With Low Back Symptom Severity Among Young Finnish Adults. <i>Spine</i> , 2012, 37, 1231-1239.	2.0	67
23	Impact of constitutional TET2 haploinsufficiency on molecular and clinical phenotype in humans. <i>Nature Communications</i> , 2019, 10, 1252.	12.8	67
24	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.	1.9	66
25	Stability Assessment of the Ankle Mortise in Supination-External Rotation-Type Ankle Fractures: Lack of Additional Diagnostic Value of MRI. <i>Journal of Bone and Joint Surgery - Series A</i> , 2014, 96, 1855-1862.	3.0	66
26	Comparison of Diagnostic Performance of Semi-Quantitative Knee Ultrasound and Knee Radiography with MRI: Oulu Knee Osteoarthritis Study. <i>Scientific Reports</i> , 2016, 6, 22365.	3.3	65
27	BOLD signal increase precedes EEG spike activity—a dynamic penicillin induced focal epilepsy in deep anesthesia. <i>NeuroImage</i> , 2005, 27, 715-724.	4.2	63
28	Interventional and intraoperative MRI at low field scanner—a review. <i>European Journal of Radiology</i> , 2005, 56, 130-142.	2.6	60
29	Genetic Factors Are Associated With Modic Changes in Endplates of Lumbar Vertebral Bodies. <i>Spine</i> , 2008, 33, 1236-1241.	2.0	60
30	Syndesmotic Fixation in Supination-External Rotation Ankle Fractures. <i>Foot and Ankle International</i> , 2014, 35, 988-995.	2.3	54
31	Vertebral endplate change as a feature of intervertebral disc degeneration: a heritability study. <i>European Spine Journal</i> , 2014, 23, 1856-1862.	2.2	54
32	Tumor necrosis factor-alpha monoclonal antibody, infliximab, used to manage severe sciatica. <i>Spine</i> , 2003, 28, 750-3; discussion 753-4.	2.0	54
33	Modic changes in vertebral endplates: a comparison of MR imaging and multislice CT. <i>Skeletal Radiology</i> , 2009, 38, 141-147.	2.0	53
34	Rotational Dynamics of the Talus in a Normal Tibiotalar Joint as Shown by Weight-Bearing Computed Tomography. <i>Journal of Bone and Joint Surgery - Series A</i> , 2016, 98, 568-575.	3.0	44
35	Associations between MRI-defined structural pathology and generalized and localized knee pain—the Oulu Knee Osteoarthritis study. <i>Osteoarthritis and Cartilage</i> , 2016, 24, 1565-1576.	1.3	43
36	Osteoclast activators are elevated in intervertebral disks with Modic changes among patients operated for herniated nucleus pulposus. <i>European Spine Journal</i> , 2016, 25, 207-216.	2.2	41

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37	Association between visual degeneration of intervertebral discs and the apparent diffusion coefficient. <i>Magnetic Resonance Imaging</i> , 2009, 27, 641-647.	1.8	40
38	Association Between Modic Changes and Low Back Pain in Middle Age. <i>Spine</i> , 2020, 45, 1360-1367.	2.0	40
39	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.	1.9	39
40	Efficacy of zoledronic acid for chronic low back pain associated with Modic changes in magnetic resonance imaging. <i>BMC Musculoskeletal Disorders</i> , 2014, 15, 64.	1.9	38
41	Lumbosacral transitional vertebrae are associated with lumbar degeneration: retrospective evaluation of 3855 consecutive abdominal CT scans. <i>European Radiology</i> , 2020, 30, 3409-3416.	4.5	36
42	Effects of Leisure-Time Physical Activity on Vertebral Dimensions in the Northern Finland Birth Cohort 1966. <i>Scientific Reports</i> , 2016, 6, 27844.	3.3	33
43	Effect of Syndesmosis Injury in SER IV (Weber B) Type Ankle Fractures on Function and Incidence of Osteoarthritis. <i>Foot and Ankle International</i> , 2015, 36, 180-187.	2.3	31
44	Quantitative and qualitative analysis of bone flap resorption in patients undergoing cranioplasty after decompressive craniectomy. <i>Journal of Neurosurgery</i> , 2018, 130, 312-321.	1.6	29
45	Temporal Trends in Vertebral Size and Shape from Medieval to Modern-Day. <i>PLoS ONE</i> , 2009, 4, e4836.	2.5	26
46	The Effect of Infliximab, a Monoclonal Antibody Against TNF- $\alpha$ , on Disc Herniation Resorption. <i>Spine</i> , 2006, 31, 2641-2645.	2.0	25
47	Impaired WNT signaling and the spine Heterozygous WNT1 mutation causes severe age-related spinal pathology. <i>Bone</i> , 2017, 101, 3-9.	2.9	25
48	Three-Year Follow-up of Lumbar Artery Occlusion With Magnetic Resonance Angiography in Patients With Sciatica. <i>Spine</i> , 2004, 29, 1804-1808.	2.0	23
49	The standing fixed flexion view detects narrowing of the joint space better than the standing extended view in patients with moderate osteoarthritis of the knee. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2010, 81, 344-346.	3.3	22
50	Putative Susceptibility Locus on Chromosome 21q for Lumbar Disc Disease (LDD) in the Finnish Population. <i>Journal of Bone and Mineral Research</i> , 2007, 22, 701-707.	2.8	21
51	Justification and active guideline implementation for spine radiography referrals in primary care. <i>Acta Radiologica</i> , 2017, 58, 586-592.	1.1	21
52	Classification of bone flap resorption after cranioplasty: a proposal for a computed tomography-based scoring system. <i>Acta Neurochirurgica</i> , 2019, 161, 473-481.	1.7	21
53	Suture button versus syndesmosis screw fixation in pronation-external rotation ankle fractures: A minimum 6-year follow-up of a randomised controlled trial. <i>Injury</i> , 2021, 52, 3143-3149.	1.7	21
54	The classification of osteonecrosis in patients with cancer: validation of a new radiological classification system. <i>Clinical Radiology</i> , 2015, 70, 1439-1444.	1.1	19

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55	Age-related trends in vertebral dimensions. <i>Journal of Anatomy</i> , 2015, 226, 434-439.	1.5	18
56	The effect of zoledronic acid on type and volume of Modic changes among patients with low back pain. <i>BMC Musculoskeletal Disorders</i> , 2017, 18, 274.	1.9	17
57	Sex estimation from dimensions of the fourth lumbar vertebra in Northern Finns of 20, 30, and 46 years of age. <i>Forensic Science International</i> , 2018, 290, 350.e1-350.e6.	2.2	17
58	Approaches for certification of electronic prescription software. <i>International Journal of Medical Informatics</i> , 1997, 47, 175-182.	3.3	16
59	Serum biomarkers for Modic changes in patients with chronic low back pain. <i>European Spine Journal</i> , 2021, 30, 1018-1027.	2.2	16
60	PLS3 Mutations Cause Severe Age and Sex-Related Spinal Pathology. <i>Frontiers in Endocrinology</i> , 2020, 11, 393.	3.5	15
61	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.	1.9	14
62	Estimation of stature from dimensions of the fourth lumbar vertebra in contemporary middle-aged Finns. <i>Forensic Science International</i> , 2018, 292, 71-77.	2.2	14
63	Longitudinal Analysis of Paraspinal Muscle Cross-Sectional Area During Early Adulthood – A 10-Year Follow-Up MRI Study. <i>Scientific Reports</i> , 2019, 9, 19497.	3.3	14
64	The Association of Lumbosacral Transitional Vertebrae with Low Back Pain and Lumbar Degenerative Findings in MRI. <i>Spine</i> , 2022, 47, 153-162.	2.0	14
65	Genome-wide meta-analysis identifies genetic locus on chromosome 9 associated with Modic changes. <i>Journal of Medical Genetics</i> , 2019, 56, 420-426.	3.2	13
66	Association of lumbar artery narrowing, degenerative changes in disc and endplate and apparent diffusion in disc on postcontrast enhancement of lumbar intervertebral disc. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2009, 22, 101-109.	2.0	12
67	A characteristic time sequence of epileptic activity in EEG during dynamic penicillin-induced focal epilepsy – A preliminary study. <i>Seizure: the Journal of the British Epilepsy Association</i> , 2011, 20, 513-519.	2.0	12
68	Modeling skeletal traits and functions of the upper body: Comparing archaeological and anthropological material. <i>Journal of Anthropological Archaeology</i> , 2013, 32, 347-351.	1.6	12
69	Effect of occupational physical activities on vertebral dimensions in midlife in the Northern Finland Birth Cohort 1966. <i>Occupational and Environmental Medicine</i> , 2017, 74, 351-356.	2.8	12
70	Effect of early life physical growth on midlife vertebral dimensions – The Northern Finland Birth Cohort 1966 study. <i>Bone</i> , 2017, 101, 172-178.	2.9	12
71	Does bone scintigraphy show Modic changes associated with increased bone turnover?. <i>European Journal of Radiology Open</i> , 2020, 7, 100222.	1.6	12
72	A portable diagnostic workstation based on a Webpad: implementation and evaluation. <i>Journal of Telemedicine and Telecare</i> , 2003, 9, 225-229.	2.7	11

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73	Influence of physical activity on vertebral size. <i>Osteoporosis International</i> , 2011, 22, 371-372.	3.1	11
74	Association between adolescent sport activities and lumbar disk degeneration among young adults. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2017, 27, 1993-2001.	2.9	11
75	Late vertebral side effects in long-term survivors of irradiated childhood brain tumor. <i>PLoS ONE</i> , 2018, 13, e0209193.	2.5	11
76	Body Mass Index Trajectories From Birth to Midlife and Vertebral Dimensions in Midlife: the Northern Finland Birth Cohort 1966 Study. <i>JBMR Plus</i> , 2019, 3, 37-44.	2.7	11
77	Bone Density and Texture from Minimally Post-Processed Knee Radiographs in Subjects with Knee Osteoarthritis. <i>Annals of Biomedical Engineering</i> , 2019, 47, 1181-1190.	2.5	11
78	T2-weighted magnetic resonance imaging texture as predictor of low back pain: A texture analysis-based classification pipeline to symptomatic and asymptomatic cases. <i>Journal of Orthopaedic Research</i> , 2021, 39, 2428-2438.	2.3	11
79	Preoperative measurements on MRI in Chiari 1 patients fail to predict outcome after decompressive surgery. <i>Acta Neurochirurgica</i> , 2021, 163, 2005-2014.	1.7	11
80	Magnetic resonance imaging (MRI)-defined cartilage degeneration and joint pain are associated with poor physical function in knee osteoarthritis – the Oulu Knee Osteoarthritis study. <i>Osteoarthritis and Cartilage</i> , 2017, 25, 1829-1840.	1.3	10
81	Dairy- and supplement-based calcium intake in adulthood and vertebral dimensions in midlife – the Northern Finland Birth Cohort 1966 Study. <i>Osteoporosis International</i> , 2019, 30, 985-994.	3.1	10
82	The Effect of Zoledronic Acid on Serum Biomarkers among Patients with Chronic Low Back Pain and Modic Changes in Lumbar Magnetic Resonance Imaging. <i>Diagnostics</i> , 2019, 9, 212.	2.6	10
83	Association of lumbar disc degeneration with low back pain in middle age in the Northern Finland Birth Cohort 1966. <i>BMC Musculoskeletal Disorders</i> , 2022, 23, 359.	1.9	10
84	Poor Acetabular Component Orientation Increases Revision Risk in Metal-on-Metal Hip Arthroplasty. <i>Journal of Arthroplasty</i> , 2017, 32, 2204-2207.	3.1	9
85	The Association of Body Size, Shape and Composition with Vertebral Size in Midlife – The Northern Finland Birth Cohort 1966 Study. <i>Scientific Reports</i> , 2019, 9, 3944.	3.3	9
86	Objectively Measured Physical Activity Is Associated with Vertebral Size in Midlife. <i>Medicine and Science in Sports and Exercise</i> , 2019, 51, 1606-1612.	0.4	9
87	Fibular nailing for fixation of ankle fractures in patients at high risk of surgical wound infection. <i>Foot and Ankle Surgery</i> , 2020, 26, 784-789.	1.7	9
88	Adverse events due to unnecessary radiation exposure in medical imaging reported in Finland. <i>Radiography</i> , 2020, 26, e195-e200.	2.1	9
89	Mobile teleradiology with smartphone terminals as a part of a multimedia electronic patient record. <i>International Congress Series</i> , 2005, 1281, 916-921.	0.2	8
90	Influence of physical activity on vertebral strength during late adolescence. <i>Spine Journal</i> , 2013, 13, 184-189.	1.3	8

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91	The association between knee breadth and body mass: The Northern Finland Birth Cohort 1966 case study. <i>American Journal of Physical Anthropology</i> , 2019, 170, 196-206.	2.1	8
92	A Whole Exome Study Identifies Novel Candidate Genes for Vertebral Bone Marrow Signal Changes (Modic Changes). <i>Spine</i> , 2017, 42, 1201-1206.	2.0	7
93	Changes in vertebral dimensions in early adulthood – A 10-year follow-up MRI-study. <i>Bone</i> , 2019, 121, 196-203.	2.9	7
94	Acoustic emissions and kinematic instability of the osteoarthritic knee joint: comparison with radiographic findings. <i>Scientific Reports</i> , 2021, 11, 19558.	3.3	7
95	Two-center validation of the Oulu resorption score for bone flap resorption after autologous cranioplasty. <i>Clinical Neurology and Neurosurgery</i> , 2022, 212, 107083.	1.4	7
96	Discovery Elbow System: clinical and radiological results after 2- to 10-year follow-up. <i>European Journal of Orthopaedic Surgery and Traumatology</i> , 2017, 27, 901-907.	1.4	6
97	Association of Modic changes with health-related quality of life among patients referred to spine surgery. <i>Scandinavian Journal of Pain</i> , 2014, 5, 36-40.	1.3	5
98	Gravidity, Parity, and Vertebral Dimensions in the Northern Finland Birth Cohort 1966. <i>Spine</i> , 2018, 43, E1102-E1108.	2.0	5
99	Randomized Controlled Trial of the Clinical Recovery and Biodegradation of Polylactide-co-glycolide Implants Used in the Intramedullary Nailing of Children’s Forearm Shaft Fractures with at Least Four Years of Follow-Up. <i>Journal of Clinical Medicine</i> , 2021, 10, 995.	2.4	5
100	Association Between Vertebral Dimensions and Lumbar Modic Changes. <i>Spine</i> , 2021, 46, E415-E425.	2.0	5
101	Suspected tuberculosis in an early 17th-century northern Finnish mummy – A computed tomography case study. <i>International Journal of Paleopathology</i> , 2016, 14, 69-73.	1.4	4
102	Computed tomography of mummified human remains in old Finnish churches, a case study: the mummified remains of a 17th-century vicar revisited. <i>Post-Medieval Archaeology</i> , 2016, 50, 368-379.	0.6	4
103	Potential case of gynecomastia in mummified remains of an early modern period northern finnish vicar. <i>Clinical Anatomy</i> , 2018, 31, 641-644.	2.7	4
104	Body mass estimation from dimensions of the fourth lumbar vertebra in middle-aged Finns. <i>Legal Medicine</i> , 2019, 40, 5-16.	1.3	4
105	Sex estimation from knee breadth dimensions in a Finnish population. <i>Legal Medicine</i> , 2021, 51, 101873.	1.3	4
106	Emergence of teleradiology, PACS, and other radiology IT solutions in <i>Acta Radiologica</i> . <i>Acta Radiologica</i> , 2021, 62, 1525-1533.	1.1	4
107	Eating Behavior Traits, Weight Loss Attempts, and Vertebral Dimensions Among the General Northern Finnish Population. <i>Spine</i> , 2019, 44, E1264-E1271.	2.0	3
108	Retention of metals in periprosthetic tissues of patients with metal-on-metal total hip arthroplasty is reflected in the synovial fluid to blood cobalt transfer ratio in the presence of a pseudotumour. <i>BMC Musculoskeletal Disorders</i> , 2020, 21, 610.	1.9	3

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109	Newborns, Infants, and Adolescents in Postmedieval Northern Finland: A Case Study from Keminmaa. <i>Historical Archaeology</i> , 2021, 55, 30-48.	0.3	3
110	Investigating errors in medical imaging: medical malpractice cases in Finland. <i>Insights Into Imaging</i> , 2021, 12, 86.	3.4	3
111	The association between physical activity and vertebral dimension change in early adulthood â€œ The Northern Finland Birth Cohort 1986 study. <i>Bone Reports</i> , 2021, 14, 101060.	0.4	3
112	Correlation between the degree of pain relief following discoblock and short-term surgical disability outcome among patients with suspected discogenic low back pain. <i>Scandinavian Journal of Pain</i> , 2022, 22, 526-532.	1.3	3
113	Response to â€œLetter Regarding: Rotational Dynamics of the Normal Distal Tibiofibular Joint With Weight-Bearing Computed Tomographyâ€œ. <i>Foot and Ankle International</i> , 2016, 37, 1152-1153.	2.3	2
114	Association between device-measured physical activity and lumbar Modic changes. <i>BMC Musculoskeletal Disorders</i> , 2020, 21, 630.	1.9	2
115	Air gap technique is recommended in axiolateral hip radiographs. <i>Journal of Applied Clinical Medical Physics</i> , 2020, 21, 210-217.	1.9	2
116	Baseline anthropometric indices predict change in vertebral size in early adulthood â€œ A 10-year follow-up MRI study. <i>Bone</i> , 2020, 138, 115506.	2.9	2
117	Temporal Trends in Vertebral Dimensions â€œ a case study from Finland. <i>Scientific Reports</i> , 2020, 10, 1635.	3.3	2
118	Syndesmosis fixation in supination-external rotation ankle fractures. Long-Term results of a prospective randomised study. <i>Foot and Ankle Surgery</i> , 2022, 28, 229-234.	1.7	2
119	Stability-Based Classification of Ankle Fracturesâ€”The Long-Term Outcome After 11â€“13 Years of Follow-up. <i>Journal of Orthopaedic Trauma</i> , 2021, 35, 227-233.	1.4	1
120	Improving anatomical stature estimation method. The relationship between living stature and intervertebral disc thickness. <i>HOMO- Journal of Comparative Human Biology</i> , 2020, 71, 37-42.	0.7	1
121	Detecting Patient Safety Errors by Characterizing Incidents Reported by Medical Imaging Staff. <i>Frontiers in Public Health</i> , 2022, 10, 846604.	2.7	1
122	Accelerometer-measured physical activity is associated with knee breadth in middle-aged Finns â€œ a population-based study. <i>BMC Musculoskeletal Disorders</i> , 2022, 23, .	1.9	1
123	Is Brain MRI Needed in Diagnostic Evaluation of Mild Intellectual Disability?. <i>Neuropediatrics</i> , 2021, 52, 027-033.	0.6	0
124	Vertebral bone marrow (Modic) changes. , 2022, , 223-252.		0