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List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

2,108
citations

331670

21
h-index

233421

45
g-index

48
all docs

48
docs citations

48
times ranked

1921
citing authors

#	ARTICLE	IF	CITATIONS
1	Biomechanical changes at the hip, knee, and ankle joints during gait are associated with knee osteoarthritis severity. <i>Journal of Orthopaedic Research</i> , 2008, 26, 332-341.	2.3	396
2	Biomechanical features of gait waveform data associated with knee osteoarthritis. <i>Gait and Posture</i> , 2007, 25, 86-93.	1.4	349
3	Gait and neuromuscular pattern changes are associated with differences in knee osteoarthritis severity levels. <i>Journal of Biomechanics</i> , 2008, 41, 868-876.	2.1	237
4	The Effect of Total Knee Arthroplasty on Knee Joint Kinematics and Kinetics During Gait. <i>Journal of Arthroplasty</i> , 2011, 26, 309-318.	3.1	128
5	Changes in frontal plane dynamics and the loading response phase of the gait cycle are characteristic of severe knee osteoarthritis application of a multidimensional analysis technique. <i>Clinical Biomechanics</i> , 2005, 20, 209-217.	1.2	101
6	The association between knee joint biomechanics and neuromuscular control and moderate knee osteoarthritis radiographic and pain severity. <i>Osteoarthritis and Cartilage</i> , 2011, 19, 186-193.	1.3	88
7	Challenges in dealing with walking speed in knee osteoarthritis gait analyses. <i>Clinical Biomechanics</i> , 2012, 27, 210-212.	1.2	86
8	Body mass index affects knee joint mechanics during gait differently with and without moderate knee osteoarthritis. <i>Osteoarthritis and Cartilage</i> , 2012, 20, 1234-1242.	1.3	74
9	Barefoot running: an evaluation of current hypothesis, future research and clinical applications: Table A1. <i>British Journal of Sports Medicine</i> , 2014, 48, 349-355.	6.7	68
10	Reliability of principal components and discrete parameters of knee angle and moment gait waveforms in individuals with moderate knee osteoarthritis. <i>Gait and Posture</i> , 2013, 38, 421-427.	1.4	50
11	Knee Joint Biomechanics and Neuromuscular Control During Gait Before and After Total Knee Arthroplasty are Sex-specific. <i>Journal of Arthroplasty</i> , 2015, 30, 118-125.	3.1	44
12	Obesity is associated with higher absolute tibiofemoral contact and muscle forces during gait with and without knee osteoarthritis. <i>Clinical Biomechanics</i> , 2016, 31, 79-86.	1.2	44
13	Preoperative gait patterns and BMI are associated with tibial component migration. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2010, 81, 478-486.	3.3	39
14	Asymptomatic and symptomatic individuals with the same radiographic evidence of knee osteoarthritis walk with different knee moments and muscle activity. <i>Journal of Orthopaedic Research</i> , 2017, 35, 1661-1670.	2.3	32
15	A multivariate gait data analysis technique: Application to knee osteoarthritis. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2004, 218, 271-279.	1.8	31
16	Alterations in neuromuscular patterns between pre and one-year post-total knee arthroplasty. <i>Clinical Biomechanics</i> , 2010, 25, 995-1002.	1.2	31
17	Individual Responses to a Barefoot Running Program. <i>American Journal of Sports Medicine</i> , 2016, 44, 777-784.	4.2	29
18	Age and sex differences in normative gait patterns. <i>Gait and Posture</i> , 2021, 88, 109-115.	1.4	28

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19	Equivalent 2-year stabilization of uncemented tibial component migration despite higher early migration compared with cemented fixation: an RSA study on 360 total knee arthroplasties. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2019, 90, 172-178.	3.3	26
20	Inducible Displacement of a Trabecular Metal Tibial Monoblock Component. <i>Journal of Arthroplasty</i> , 2010, 25, 893-900.	3.1	24
21	Obesity is associated with prolonged activity of the quadriceps and gastrocnemii during gait. <i>Journal of Electromyography and Kinesiology</i> , 2015, 25, 951-958.	1.7	23
22	Longitudinal evidence links joint level mechanics and muscle activation patterns to 3-year medial joint space narrowing. <i>Clinical Biomechanics</i> , 2019, 61, 233-239.	1.2	21
23	Loading rate increases during barefoot running in habitually shod runners: Individual responses to an unfamiliar condition. <i>Gait and Posture</i> , 2016, 46, 47-52.	1.4	19
24	Baseline Gait Muscle Activation Patterns Differ for Osteoarthritis Patients Who Undergo Total Knee Arthroplasty Five to Eight Years Later From Those Who Do Not. <i>Arthritis Care and Research</i> , 2021, 73, 549-558.	3.4	13
25	A cadaver model evaluating femoral intramedullary reaming: a comparison between new reamer design (Pressure Sentinel) and a novel suction/irrigation reamer (RIA). <i>Injury</i> , 2010, 41, S38-S42.	1.7	12
26	Pre-operative muscle activation patterns during walking are associated with TKA tibial implant migration. <i>Clinical Biomechanics</i> , 2012, 27, 936-942.	1.2	12
27	Changes in the Functional Flexion Axis of the Knee Before and After Total Knee Arthroplasty Using a Navigation System. <i>Journal of Arthroplasty</i> , 2014, 29, 1388-1393.	3.1	10
28	Differences in Baseline Joint Moments and Muscle Activation Patterns Associated With Knee Osteoarthritis Progression When Defined Using a Clinical Versus a Structural Outcome. <i>Journal of Applied Biomechanics</i> , 2020, 36, 39-51.	0.8	9
29	Intraoperative passive knee kinematics during total knee arthroplasty surgery. <i>Journal of Orthopaedic Research</i> , 2015, 33, 1611-1619.	2.3	8
30	Individual Gait Features Are Associated with Clinical Improvement After Total Knee Arthroplasty. <i>JBJS Open Access</i> , 2020, 5, e0038-e0038.	1.5	8
31	Early Identification of Patient Satisfaction Two Years After Total Knee Arthroplasty. <i>Journal of Arthroplasty</i> , 2021, 36, 2473-2479.	3.1	8
32	Patient-specific Functional Analysis: The Key to the Next Revolution Towards the Treatment of Hip and Knee Osteoarthritis. <i>Journal of Orthopaedic Research</i> , 2019, 37, 1754-1759.	2.3	7
33	Gait biomechanics phenotypes among total knee arthroplasty candidates by machine learning cluster analysis. <i>Journal of Orthopaedic Research</i> , 2023, 41, 335-344.	2.3	7
34	The Knee Adduction Moment During Gait is Associated With the Adduction Angle Measured During Computer-Assisted Total Knee Arthroplasty. <i>Journal of Arthroplasty</i> , 2012, 27, 1244-1250.	3.1	6
35	Effect on Oxygen Cost of Transport from 8-Weeks of Progressive Training with Barefoot Running. <i>International Journal of Sports Medicine</i> , 2015, 36, 1100-1105.	1.7	6
36	Quantifying Achievable Levels of Improvement in Knee Joint Biomechanics During Gait After Total Knee Arthroplasty Relative to Osteoarthritis Severity. <i>Journal of Applied Biomechanics</i> , 2021, 37, 130-138.	0.8	6

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37	Association Between Knee Joint Muscle Activation and Knee Joint Moment Patterns During Walking in Moderate Medial Compartment Knee Osteoarthritis: Implications for Secondary Prevention. Archives of Physical Medicine and Rehabilitation, 2021, 102, 1910-1917.	0.9	6
38	Association of Low Physical Activity Levels With Gait Patterns Considered at Risk for Clinical Knee Osteoarthritis Progression. ACR Open Rheumatology, 2021, 3, 753-763.	2.1	4
39	Sex differences in the regularity and symmetry of gait in older adults with and without knee osteoarthritis. Gait and Posture, 2022, 95, 192-197.	1.4	4
40	Limiting the Risk of Osteoarthritis After Anterior Cruciate Ligament Injury: Are Health Care Providers Missing the Opportunity to Intervene?. Arthritis Care and Research, 2021, 73, 1754-1762.	3.4	3
41	The associations of implant and patient factors with migration of the tibial component differ by sex. Bone and Joint Journal, 2022, 104-B, 444-451.	4.4	3
42	The reliability of radiostereometric analysis in determining physeal motion in slipped capital femoral epiphysis in standard uniplanar and low-dose EOS biplanar radiography: a phantom model study. Journal of Pediatric Orthopaedics Part B, 2018, 27, 496-502.	0.6	2
43	Predicting recovery after lumbar spinal stenosis surgery: A protocol for a historical cohort study using data from the Canadian Spine Outcomes Research Network (CSORN). Canadian Journal of Pain, 2020, 4, 19-25.	1.7	1
44	Effects of Knee Osteoarthritis and Joint Replacement Surgery on Gait. , 2017, , 1-29.		1
45	Single Versus Multiple Monitoring Periods for Accelerometer-Measured Physical Activity in Medial Knee Osteoarthritis and Asymptomatic Controls. Journal for the Measurement of Physical Behaviour, 2020, 3, 29-38.	0.8	1
46	Effects of Knee Osteoarthritis and Joint Replacement Surgery on Gait. , 2018, , 1521-1549.		0