Janie L Astephen Wilson

List of Publications by Year
in descending order

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	Gait biomechanics phenotypes among total knee arthroplasty candidates by machine learning cluster analysis. Journal of Orthopaedic Research, 2023, 41, 335-344.	2.3	7
2	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
3	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
4	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
5	Baseline Gait Muscle Activation Patterns Differ for Osteoarthritis Patients Who Undergo Total Knee Arthroplasty Five to Eight Years Later From Those Who Do Not. Arthritis Care and Research, 2021, 73, 549-558.	3.4	13
6	Quantifying Achievable Levels of Improvement in Knee Joint Biomechanics During Gait After Total Knee Arthroplasty Relative to Osteoarthritis Severity. Journal of Applied Biomechanics, 2021, 37, 130-138.	0.8	6
7	Age and sex differences in normative gait patterns. Gait and Posture, 2021, 88, 109-115.	1.4	28
8	Early Identification of Patient Satisfaction Two Years After Total Knee Arthroplasty. Journal of Arthroplasty, 2021, 36, 2473-2479.	3.1	8
9	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
10	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
11	Individual Gait Features Are Associated with Clinical Improvement After Total Knee Arthroplasty. JBJS Open Access, 2020, 5, e0038-e0038.	1.5	8
12	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
13	Differences in Baseline Joint Moments and Muscle Activation Patterns Associated With Knee Osteoarthritis Progression When Defined Using a Clinical Versus a Structural Outcome. Journal of Applied Biomechanics, 2020, 36, 39-51.	0.8	9
14	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
15	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. Monthly Notices of the Royal Astronomical Society: Letters, 2019, 90, 172-178.	3.3	26
16	Patientâ€Specific Functional Analysis: The Key to the Next Revolution Towards the Treatment of Hip and Knee Osteoarthritis. Journal of Orthopaedic Research, 2019, 37, 1754-1759.	2.3	7
17	Longitudinal evidence links joint level mechanics and muscle activation patterns to 3-year medial joint space narrowing. Clinical Biomechanics, 2019, 61, 233-239.	1.2	21
18	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

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19	Effects of Knee Osteoarthritis and Joint Replacement Surgery on Gait. , 2018, , 1521-1549.		0
20	Asymptomatic and symptomatic individuals with the same radiographic evidence of knee osteoarthritis walk with different knee moments and muscle activity. Journal of Orthopaedic Research, 2017, 35, 1661-1670.	2.3	32
21	Effects of Knee Osteoarthritis and Joint Replacement Surgery on Gait. , 2017, , 1-29.		1
22	Loading rate increases during barefoot running in habitually shod runners: Individual responses to an unfamiliar condition. Gait and Posture, 2016, 46, 47-52.	1.4	19
23	Individual Responses to a Barefoot Running Program. American Journal of Sports Medicine, 2016, 44, 777-784.	4.2	29
24	Obesity is associated with higher absolute tibiofemoral contact and muscle forces during gait with and without knee osteoarthritis. Clinical Biomechanics, 2016, 31, 79-86.	1.2	44
25	Effect on Oxygen Cost of Transport from 8-Weeks of Progressive Training with Barefoot Running. International Journal of Sports Medicine, 2015, 36, 1100-1105.	1.7	6
26	Intraoperative passive knee kinematics during total knee arthroplasty surgery. Journal of Orthopaedic Research, 2015, 33, 1611-1619.	2.3	8
27	Obesity is associated with prolonged activity of the quadriceps and gastrocnemii during gait. Journal of Electromyography and Kinesiology, 2015, 25, 951-958.	1.7	23
28	Knee Joint Biomechanics and Neuromuscular Control During Gait Before and After Total Knee Arthroplasty are Sex-specific. Journal of Arthroplasty, 2015, 30, 118-125.	3.1	44
29	Changes in the Functional Flexion Axis of the Knee Before and After Total Knee Arthroplasty Using a Navigation System. Journal of Arthroplasty, 2014, 29, 1388-1393.	3.1	10
30	Barefoot running: an evaluation of current hypothesis, future research and clinical applications: TableÂ1. British Journal of Sports Medicine, 2014, 48, 349-355.	6.7	68
31	Reliability of principal components and discrete parameters of knee angle and moment gait waveforms in individuals with moderate knee osteoarthritis. Gait and Posture, 2013, 38, 421-427.	1.4	50
32	Pre-operative muscle activation patterns during walking are associated with TKA tibial implant migration. Clinical Biomechanics, 2012, 27, 936-942.	1.2	12
33	Challenges in dealing with walking speed in knee osteoarthritis gait analyses. Clinical Biomechanics, 2012, 27, 210-212.	1.2	86
34	Body mass index affects knee joint mechanics during gait differently with and without moderate knee osteoarthritis. Osteoarthritis and Cartilage, 2012, 20, 1234-1242.	1.3	74
35	The Knee Adduction Moment During Gait is Associated With the Adduction Angle Measured During Computer-Assisted Total Knee Arthroplasty. Journal of Arthroplasty, 2012, 27, 1244-1250.	3.1	6
36	The association between knee joint biomechanics and neuromuscular control and moderate knee osteoarthritis radiographic and pain severity. Osteoarthritis and Cartilage, 2011, 19, 186-193.	1.3	88

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37	The Effect of Total Knee Arthroplasty on Knee Joint Kinematics and Kinetics During Gait. Journal of Arthroplasty, 2011, 26, 309-318.	3.1	128
38	Inducible Displacement of a Trabecular Metal Tibial Monoblock Component. Journal of Arthroplasty, 2010, 25, 893-900.	3.1	24
39	A cadaver model evaluating femoral intramedullary reaming: a comparison between new reamer design (Pressure Sentinel) and a novel suction/irrigation reamer (RIA). Injury, 2010, 41, S38-S42.	1.7	12
40	Alterations in neuromuscular patterns between pre and one-year post-total knee arthroplasty. Clinical Biomechanics, 2010, 25, 995-1002.	1.2	31
41	Preoperative gait patterns and BMI are associated with tibial component migration. Monthly Notices of the Royal Astronomical Society: Letters, 2010, 81, 478-486.	3.3	39
42	Biomechanical changes at the hip, knee, and ankle joints during gait are associated with knee osteoarthritis severity. Journal of Orthopaedic Research, 2008, 26, 332-341.	2.3	396
43	Gait and neuromuscular pattern changes are associated with differences in knee osteoarthritis severity levels. Journal of Biomechanics, 2008, 41, 868-876.	2.1	237
44	Biomechanical features of gait waveform data associated with knee osteoarthritis. Gait and Posture, 2007, 25, 86-93.	1.4	349
45	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. Clinical Biomechanics, 2005, 20, 209-217.	1.2	101
46	A multivariate gait data analysis technique: Application to knee osteoarthritis. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2004, 218, 271-279.	1.8	31