

Kevin J Deluzio

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

3,345
citations

159585

30
h-index

149698

56
g-index

62
all docs

62
docs citations

62
times ranked

2853
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	Knee and hip kinetics during normal stair climbing. <i>Gait and Posture</i> , 2002, 16, 31-37.	1.4	252
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	Knee biomechanics of moderate OA patients measured during gait at a self-selected and fast walking speed. <i>Journal of Biomechanics</i> , 2007, 40, 1754-1761.	2.1	197
5	Principal component models of knee kinematics and kinetics: Normal vs. pathological gait patterns. <i>Human Movement Science</i> , 1997, 16, 201-217.	1.4	169
6	Effect of a Home Program of Hip Abductor Exercises on Knee Joint Loading, Strength, Function, and Pain in People With Knee Osteoarthritis: A Clinical Trial. <i>Physical Therapy</i> , 2010, 90, 895-904.	2.4	142
7	Gender differences exist in osteoarthritic gait. <i>Clinical Biomechanics</i> , 2007, 22, 400-409.	1.2	127
8	Neuromuscular and Lower Limb Biomechanical Differences Exist between Male and Female Elite Adolescent Soccer Players during an Unanticipated Side-cut Maneuver. <i>American Journal of Sports Medicine</i> , 2007, 35, 1888-1900.	4.2	119
9	Effects of Pelvic Asymmetry and Low Back Pain on Trunk Kinematics During Sitting: A Comparison With Standing. <i>Spine</i> , 2006, 31, E135-E143.	2.0	102
10	Interpreting principal components in biomechanics: Representative extremes and single component reconstruction. <i>Journal of Electromyography and Kinesiology</i> , 2013, 23, 1304-1310.	1.7	101
11	Concurrent assessment of gait kinematics using marker-based and markerless motion capture. <i>Journal of Biomechanics</i> , 2021, 127, 110665.	2.1	98
12	Muscle co-activation patterns during walking in those with severe knee osteoarthritis. <i>Clinical Biomechanics</i> , 2008, 23, 71-80.	1.2	89
13	Comparative Fixation of Tibial Plateau Fractures Using ??-BSM???, a Calcium Phosphate Cement, Versus Cancellous Bone Graft. <i>Journal of Orthopaedic Trauma</i> , 2005, 19, 698-702.	1.4	67
14	Biomechanical strategies implemented to compensate for mild leg length discrepancy during gait. <i>Gait and Posture</i> , 2016, 46, 147-153.	1.4	67
15	Differentiating lifting technique between those who develop low back pain and those who do not. <i>Clinical Biomechanics</i> , 2005, 20, 254-263.	1.2	66
16	Factors affecting the stability of reverse shoulder arthroplasty: a biomechanical study. <i>Journal of Shoulder and Elbow Surgery</i> , 2013, 22, 439-444.	2.6	65
17	Increased unilateral foot pronation affects lower limbs and pelvic biomechanics during walking. <i>Gait and Posture</i> , 2015, 41, 395-401.	1.4	65
18	Effects of Pelvic Skeletal Asymmetry on Trunk Movement. <i>Spine</i> , 2006, 31, E71-E79.	2.0	64

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19	Assessment of spatiotemporal gait parameters using a deep learning algorithm-based markerless motion capture system. <i>Journal of Biomechanics</i> , 2021, 122, 110414.	2.1	64
20	Economics of less invasive spinal surgery: an analysis of hospital cost differences between open and minimally invasive instrumented spinal fusion procedures during the perioperative period. <i>Risk Management and Healthcare Policy</i> , 2012, 5, 65.	2.5	63
21	Gender differences exist in neuromuscular control patterns during the pre-contact and early stance phase of an unanticipated side-cut and cross-cut maneuver in 15-18 years old adolescent soccer players. <i>Journal of Electromyography and Kinesiology</i> , 2009, 19, e370-e379.	1.7	61
22	Inter-session repeatability of markerless motion capture gait kinematics. <i>Journal of Biomechanics</i> , 2021, 121, 110422.	2.1	60
23	A procedure to validate three-dimensional motion assessment systems. <i>Journal of Biomechanics</i> , 1993, 26, 753-759.	2.1	56
24	Gait assessment in unicompartmental knee arthroplasty patients: Principal component modelling of gait waveforms and clinical status. <i>Human Movement Science</i> , 1999, 18, 701-711.	1.4	52
25	Selective lateral muscle activation in moderate medial knee osteoarthritis subjects does not unload medial knee condyle. <i>Journal of Biomechanics</i> , 2014, 47, 1409-1415.	2.1	49
26	A biomechanical analysis of trunk and pelvis motion during gait in subjects with knee osteoarthritis compared to control subjects. <i>Clinical Biomechanics</i> , 2010, 25, 1003-1010.	1.2	43
27	Accuracy of single-plane fluoroscopy in determining relative position and orientation of total knee replacement components. <i>Journal of Biomechanics</i> , 2011, 44, 784-787.	2.1	43
28	A Comparison of Self-Selected Walking Speeds and Walking Speed Variability When Data Are Collected During Repeated Discrete Trials and During Continuous Walking. <i>Journal of Applied Biomechanics</i> , 2017, 33, 384-387.	0.8	42
29	Mild leg length discrepancy affects lower limbs, pelvis and trunk biomechanics of individuals with knee osteoarthritis during gait. <i>Clinical Biomechanics</i> , 2016, 38, 1-7.	1.2	39
30	Principal component analysis of lifting waveforms. <i>Clinical Biomechanics</i> , 2006, 21, 567-578.	1.2	37
31	The effect of articular geometry features identified using statistical shape modelling on knee biomechanics. <i>Medical Engineering and Physics</i> , 2019, 66, 47-55.	1.7	33
32	A Global Gait Asymmetry Index. <i>Journal of Applied Biomechanics</i> , 2016, 32, 171-177.	0.8	29
33	Sensitivity of medial and lateral knee contact force predictions to frontal plane alignment and contact locations. <i>Journal of Biomechanics</i> , 2017, 57, 125-130.	2.1	23
34	Detecting differences between asymptomatic and osteoarthritic gait is influenced by changing the knee adduction moment model. <i>Gait and Posture</i> , 2008, 27, 485-492.	1.4	22
35	Robust features of knee osteoarthritis in joint moments are independent of reference frame selection. <i>Clinical Biomechanics</i> , 2011, 26, 65-70.	1.2	22
36	Ipsilateral and contralateral foot pronation affect lower limb and trunk biomechanics of individuals with knee osteoarthritis during gait. <i>Clinical Biomechanics</i> , 2016, 34, 30-37.	1.2	21

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37	Contributions of muscles and external forces to medial knee load reduction due to osteoarthritis braces. <i>Knee</i> , 2019, 26, 564-577.	1.6	19
38	Self-Selected walking speed increases when individuals are aware of being recorded. <i>Gait and Posture</i> , 2019, 68, 78-80.	1.4	17
39	Clothing condition does not affect meaningful clinical interpretation in markerless motion capture. <i>Journal of Biomechanics</i> , 2022, 141, 111182.	2.1	14
40	Implementation and validation of an implant-based coordinate system for RSA migration calculation. <i>Journal of Biomechanics</i> , 2009, 42, 2387-2393.	2.1	12
41	Effect of implant geometry on range of motion in reverse shoulder arthroplasty assessed using glenohumeral separation distance. <i>Journal of Shoulder and Elbow Surgery</i> , 2015, 24, 1359-1366.	2.6	12
42	Energy expended and knee joint load accumulated when walking, running, or standing for the same amount of time. <i>Gait and Posture</i> , 2015, 41, 326-328.	1.4	12
43	A comparison of centre of pressure behaviour and ground reaction force magnitudes when individuals walk overground and on an instrumented treadmill. <i>Gait and Posture</i> , 2021, 83, 174-176.	1.4	11
44	How symmetric are metal-on-metal hip resurfacing patients during gait? Insights for the rehabilitation. <i>Journal of Biomechanics</i> , 2017, 58, 37-44.	2.1	7
45	Operator Bias Errors Are Reduced Using Standing Marker Alignment Device for Repeated Visit Studies. <i>Journal of Biomechanical Engineering</i> , 2018, 140, .	1.3	6
46	Movement and Mobility. <i>Advances in Nursing Science</i> , 2019, 42, E11-E23.	1.1	6
47	Knee extension moment arm variations relate to mechanical function in walking and running. <i>Journal of the Royal Society Interface</i> , 2021, 18, 20210326.	3.4	6
48	The Effect of Ankle Brace Use on a 3-Step Volleyball Spike Jump Height. <i>Arthroscopy, Sports Medicine, and Rehabilitation</i> , 2020, 2, e461-e467.	1.7	5
49	Identification of good candidates for valgus bracing as a treatment for medial knee osteoarthritis. <i>Journal of Orthopaedic Research</i> , 2018, 36, 351-356.	2.3	4
50	Measures of movement and mobility used in clinical practice and research: a scoping review. <i>JBIEvidence Synthesis</i> , 2021, 19, 341-403.	1.3	4
51	Relationship Between Lateral Patellar Stability and Tibial Tubercle Location for Varying Patellofemoral Geometries. <i>Journal of Biomechanical Engineering</i> , 2019, 141, .	1.3	4
52	Influence of Articular Geometry and Tibial Tubercle Location on Patellofemoral Kinematics and Contact Mechanics. <i>Journal of Applied Biomechanics</i> , 2022, 38, 58-66.	0.8	4
53	Correcting waveform bias using principal component analysis: Applications in multicentre motion analysis studies. <i>Gait and Posture</i> , 2017, 51, 153-158.	1.4	3
54	Measures of movement and mobility used in clinical practice and research. <i>JBIDatabase of Systematic Reviews and Implementation Reports</i> , 2018, 16, 2279-2287.	1.7	3

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55	Prediction of Knee Joint Contact Forces From External Measures Using Principal Component Prediction and Reconstruction. <i>Journal of Applied Biomechanics</i> , 2018, 34, 419-423.	0.8	2
56	Validation of method for analysing mechanics of unloader brace for medial knee osteoarthritis. <i>Journal of Biomechanics</i> , 2018, 76, 253-258.	2.1	2
57	Pendulum-based method for determining the temporal accuracy of digital video-based motion capture systems. <i>Gait and Posture</i> , 2009, 29, 349-353.	1.4	1
58	Response to Letter to the Editor concerning "How symmetric are metal-on-metal hip resurfacing patients during gait? Insights for the rehabilitation", <i>Journal of Biomechanics</i> , 2017, 63, 204-205.	2.1	1
59	Commentary on "Modelling knee flexion effects on joint power absorption and adduction moment", <i>Knee</i> , 2017, 24, 1256-1257.	1.6	0