# Kevin J Deluzio

List of Publications by Year
in descending order



| 59 | 3,345 | 159585 30 | 149698 56 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 62 | 62 | 62 | 2853 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Influence of Articular Geometry and Tibial Tubercle Location on Patellofemoral Kinematics and Contact Mechanics. Journal of Applied Biomechanics, 2022, 38, 58-66. | 0.8 | 4 |
| 2 | Clothing condition does not affect meaningful clinical interpretation in markerless motion capture. Journal of Biomechanics, 2022, 141, 111182. | 2.1 | 14 |
| 3 | A comparison of centre of pressure behaviour and ground reaction force magnitudes when individuals walk overground and on an instrumented treadmill. Gait and Posture, 2021, 83, 174-176. | 1.4 | 11 |
| 4 | Inter-session repeatability of markerless motion capture gait kinematics. Journal of Biomechanics, 2021, 121, 110422. | 2.1 | 60 |
| 5 | Assessment of spatiotemporal gait parameters using a deep learning algorithm-based markerless motion capture system. Journal of Biomechanics, 2021, 122, 110414. | 2.1 | 64 |
| 6 | Knee extension moment arm variations relate to mechanical function in walking and running. Journal of the Royal Society Interface, 2021, 18, 20210326. | 3.4 | 6 |
| 7 | Concurrent assessment of gait kinematics using marker-based and markerless motion capture. Journal of Biomechanics, 2021, 127, 110665. | 2.1 | 98 |
| 8 | Measures of movement and mobility used in clinical practice and research: a scoping review. JBI Evidence Synthesis, 2021, 19, 341-403. | 1.3 | 4 |
| 9 | The Effect of Ankle Brace Use on a 3-Step Volleyball Spike Jump Height. Arthroscopy, Sports Medicine, and Rehabilitation, 2020, 2, e461-e467. | 1.7 | 5 |
| 10 | Contributions of muscles and external forces to medial knee load reduction due to osteoarthritis braces. Knee, 2019, 26, 564-577. | 1.6 | 19 |
| 11 | The effect of articular geometry features identified using statistical shape modelling on knee biomechanics. Medical Engineering and Physics, 2019, 66, 47-55. | 1.7 | 33 |
| 12 | Movement and Mobility. Advances in Nursing Science, 2019, 42, E11-E23. | 1.1 | 6 |
| 13 | Self-Selected walking speed increases when individuals are aware of being recorded. Gait and Posture, 2019, 68, 78-80. | 1.4 | 17 |
| 14 | Relationship Between Lateral Patellar Stability and Tibial Tubercle Location for Varying Patellofemoral Geometries. Journal of Biomechanical Engineering, 2019, 141, . | 1.3 | 4 |
| 15 | Identification of good candidates for valgus bracing as a treatment for medial knee osteoarthritis. Journal of Orthopaedic Research, 2018, 36, 351-356. | 2.3 | 4 |
| 16 | Operator Bias Errors Are Reduced Using Standing Marker Alignment Device for Repeated Visit Studies. Journal of Biomechanical Engineering, 2018, 140, . | 1.3 | 6 |
| 17 | Measures of movement and mobility used in clinical practice and research. JBI Database of Systematic Reviews and Implementation Reports, 2018, 16, 2279-2287. | 1.7 | 3 |
| 18 | Prediction of Knee Joint Contact Forces From External Measures Using Principal Component Prediction and Reconstruction. Journal of Applied Biomechanics, 2018, 34, 419-423. | 0.8 | 2 |

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|---|---|---|---|
| 19 | Validation of method for analysing mechanics of unloader brace for medial knee osteoarthritis. Journal of Biomechanics, 2018, 76, 253-258. | 2.1 | 2 |
| 20 | How symmetric are metal-on-metal hip resurfacing patients during gait? Insights for the rehabilitation. Journal of Biomechanics, 2017, 58, 37-44. | 2.1 | 7 |
| 21 | A Comparison of Self-Selected Walking Speeds and Walking Speed Variability When Data Are Collected During Repeated Discrete Trials and During Continuous Walking. Journal of Applied Biomechanics, 2017, 33, 384-387. | 0.8 | 42 |
| 22 | Sensitivity of medial and lateral knee contact force predictions to frontal plane alignment and contact locations. Journal of Biomechanics, 2017, 57, 125-130. | 2.1 | 23 |
| 23 | Response to Letter to the Editor concerning â€œHow symmetric are metal-on-metal hip resurfacing patients during gait? Insights for the rehabilitationâ€. Journal of Biomechanics, 2017, 63, 204-205. | 2.1 | 1 |
| 24 | Commentary on â€œModelling knee flexion effects on joint power absorption and adduction momentâ€. Knee, 2017, 24, 1256-1257. | 1.6 | 0 |
| 25 | Correcting waveform bias using principal component analysis: Applications in multicentre motion analysis studies. Gait and Posture, 2017, 51, 153-158. | 1.4 | 3 |
| 26 | Ipsilateral and contralateral foot pronation affect lower limb and trunk biomechanics of individuals with knee osteoarthritis during gait. Clinical Biomechanics, 2016, 34, 30-37. | 1.2 | 21 |
| 27 | Mild leg length discrepancy affects lower limbs, pelvis and trunk biomechanics of individuals with knee osteoarthritis during gait. Clinical Biomechanics, 2016, 38, 1-7. | 1.2 | 39 |
| 28 | A Global Gait Asymmetry Index. Journal of Applied Biomechanics, 2016, 32, 171-177. | 0.8 | 29 |
| 29 | Biomechanical strategies implemented to compensate for mild leg length discrepancy during gait. Gait and Posture, 2016, 46, 147-153. | 1.4 | 67 |
| 30 | Effect of implant geometry on range of motion in reverse shoulder arthroplasty assessed using glenohumeral separation distance. Journal of Shoulder and Elbow Surgery, 2015, 24, 1359-1366. | 2.6 | 12 |
| 31 | Energy expended and knee joint load accumulated when walking, running, or standing for the same amount of time. Gait and Posture, 2015, 41, 326-328. | 1.4 | 12 |
| 32 | Increased unilateral foot pronation affects lower limbs and pelvic biomechanics during walking. Gait and Posture, 2015, 41, 395-401. | 1.4 | 65 |
| 33 | Selective lateral muscle activation in moderate medial knee osteoarthritis subjects does not unload medial knee condyle. Journal of Biomechanics, 2014, 47, 1409-1415. | 2.1 | 49 |
| 34 | Interpreting principal components in biomechanics: Representative extremes and single component reconstruction. Journal of Electromyography and Kinesiology, 2013, 23, 1304-1310. | 1.7 | 101 |
| 35 | Factors affecting the stability of reverse shoulder arthroplasty: a biomechanical study. Journal of Shoulder and Elbow Surgery, 2013, 22, 439-444. | 2.6 | 65 |
| 36 | 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. Risk Management and Healthcare Policy, 2012, 5, 65. | 2.5 | 63 |

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|---|---|---|---|
| 37 | Robust features of knee osteoarthritis in joint moments are independent of reference frame selection. Clinical Biomechanics, 2011, 26, 65-70. | 1.2 | 22 |
| 38 | Accuracy of single-plane fluoroscopy in determining relative position and orientation of total knee replacement components. Journal of Biomechanics, 2011, 44, 784-787. | 2.1 | 43 |
| 39 | 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. Physical Therapy, 2010, 90, 895-904. | 2.4 | 142 |
| 40 | A biomechanical analysis of trunk and pelvis motion during gait in subjects with knee osteoarthritis compared to control subjects. Clinical Biomechanics, 2010, 25, 1003-1010. | 1.2 | 43 |
| 41 | Implementation and validation of an implant-based coordinate system for RSA migration calculation. Journal of Biomechanics, 2009, 42, 2387-2393. | 2.1 | 12 |
| 42 | Pendulum-based method for determining the temporal accuracy of digital video-based motion capture systems. Gait and Posture, 2009, 29, 349-353. | 1.4 | 1 |
| 43 | 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 15â€“18 years old adolescent soccer players. Journal of Electromyography and Kinesiology, 2009, 19, e370-e379. | 1.7 | 61 |
| 44 | 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 |
| 45 | Gait and neuromuscular pattern changes are associated with differences in knee osteoarthritis severity levels. Journal of Biomechanics, 2008, 41, 868-876. | 2.1 | 237 |
| 46 | Detecting differences between asymptomatic and osteoarthritic gait is influenced by changing the knee adduction moment model. Gait and Posture, 2008, 27, 485-492. | 1.4 | 22 |
| 47 | Muscle co-activation patterns during walking in those with severe knee osteoarthritis. Clinical Biomechanics, 2008, 23, 71-80. | 1.2 | 89 |
| 48 | Neuromuscular and Lower Limb Biomechanical Differences Exist between Male and Female Elite Adolescent Soccer Players during an Unanticipated Side-cut Maneuver. American Journal of Sports Medicine, 2007, 35, 1888-1900. | 4.2 | 119 |
| 49 | Gender differences exist in osteoarthritic gait. Clinical Biomechanics, 2007, 22, 400-409. | 1.2 | 127 |
| 50 | Knee biomechanics of moderate OA patients measured during gait at a self-selected and fast walking speed. Journal of Biomechanics, 2007, 40, 1754-1761. | 2.1 | 197 |
| 51 | Principal component analysis of lifting waveforms. Clinical Biomechanics, 2006, 21, 567-578. | 1.2 | 37 |
| 52 | Effects of Pelvic Skeletal Asymmetry on Trunk Movement. Spine, 2006, 31, E71-E79. | 2.0 | 64 |
| 53 | Effects of Pelvic Asymmetry and Low Back Pain on Trunk Kinematics During Sitting: A Comparison With Standing. Spine, 2006, 31, E135-E143. | 2.0 | 102 |
| 54 | Comparative Fixation of Tibial Plateau Fractures Using ??-BSM???, a Calcium Phosphate Cement, Versus Cancellous Bone Graft. Journal of Orthopaedic Trauma, 2005, 19, 698-702. | 1.4 | 67 |

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| 55 | Differentiating lifting technique between those who develop low back pain and those who do not. Clinical Biomechanics, 2005, 20, 254-263. | 1.2 | 66 |
| 56 | Knee and hip kinetics during normal stair climbing. Gait and Posture, 2002, 16, 31-37. | 1.4 | 252 |
| 57 | Gait assessment in unicompartmental knee arthroplasty patients: Principal component modelling of gait waveforms and clinical status. Human Movement Science, 1999, 18, 701-711. | 1.4 | 52 |
| 58 | Principal component models of knee kinematics and kinetics: Normal vs. pathological gait patterns. Human Movement Science, 1997, 16, 201-217. | 1.4 | 169 |
| 59 | A procedure to validate three-dimensional motion assessment systems. Journal of Biomechanics, 1993, 26, 753-759. | 2.1 | 56 |