

# Andrew E Anderson

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9435341/publications.pdf>

Version: 2024-02-01

74  
papers

3,076  
citations

185998

28  
h-index

161609

54  
g-index

75  
all docs

75  
docs citations

75  
times ranked

2282  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Subject-Specific Finite Element Model of the Pelvis: Development, Validation and Sensitivity Studies. <i>Journal of Biomechanical Engineering</i> , 2005, 127, 364-373.   | 0.6 | 294       |
| 2  | Validation of Finite Element Predictions of Cartilage Contact Pressure in the Human Hip Joint. <i>Journal of Biomechanical Engineering</i> , 2008, 130, 051008.   | 0.6 | 214       |
| 3  | Radiographic Prevalence of Femoroacetabular Impingement in Collegiate Football Players. <i>Journal of Bone and Joint Surgery - Series A</i> , 2011, 93, e111.   | 1.4 | 213       |
| 4  | Verification, validation and sensitivity studies in computational biomechanics. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2007, 10, 171-184.   | 0.9 | 190       |
| 5  | Role of the acetabular labrum in load support across the hip joint. <i>Journal of Biomechanics</i> , 2011, 44, 2201-2206.   | 0.9 | 179       |
| 6  | Finite element prediction of cartilage contact stresses in normal human hips. <i>Journal of Orthopaedic Research</i> , 2012, 30, 1133-1139.   | 1.2 | 172       |
| 7  | Effects of idealized joint geometry on finite element predictions of cartilage contact stresses in the hip. <i>Journal of Biomechanics</i> , 2010, 43, 1351-1357.   | 0.9 | 160       |
| 8  | Influence of Ankle Position and Radiographic Projection Angle on Measurement of Supramalleolar Alignment on the Anteroposterior and Hindfoot Alignment Views. <i>Foot and Ankle International</i> , 2015, 36, 1352-1361.                  | 1.1 | 88        |
| 9  | Correlations between the alpha angle and femoral head asphericity: Implications and recommendations for the diagnosis of cam femoroacetabular impingement. <i>European Journal of Radiology</i> , 2014, 83, 788-796.                      | 1.2 | 80        |
| 10 | Medial Distal Tibial Angle: Comparison between Weightbearing Mortise View and Hindfoot Alignment View. <i>Foot and Ankle International</i> , 2012, 33, 655-661.   | 1.1 | 78        |
| 11 | Statistical shape modeling of cam femoroacetabular impingement. <i>Journal of Orthopaedic Research</i> , 2013, 31, 1620-1626.   | 1.2 | 74        |
| 12 | Soft tissue artifact causes significant errors in the calculation of joint angles and range of motion at the hip. <i>Gait and Posture</i> , 2017, 55, 184-190.  | 0.6 | 72        |
| 13 | Accuracy and Feasibility of Dual Fluoroscopy and Model-Based Tracking to Quantify in Vivo Hip Kinematics During Clinical Exams. <i>Journal of Applied Biomechanics</i> , 2014, 30, 461-470.   | 0.3 | 70        |
| 14 | Subject-Specific Analysis of Joint Contact Mechanics: Application to the Study of Osteoarthritis and Surgical Planning. <i>Journal of Biomechanical Engineering</i> , 2013, 135, 021003.  | 0.6 | 59        |
| 15 | Hip Internal Rotation Is Correlated to Radiographic Findings of Cam Femoroacetabular Impingement in Collegiate Football Players. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2012, 28, 1661-1670.                  | 1.3 | 57        |
| 16 | Accuracy and feasibility of high-speed dual fluoroscopy and model-based tracking to measure in vivo ankle arthrokinematics. <i>Gait and Posture</i> , 2015, 41, 888-893.  | 0.6 | 54        |
| 17 | Higher medially-directed joint reaction forces are a characteristic of dysplastic hips: A comparative study using subject-specific musculoskeletal models. <i>Journal of Biomechanics</i> , 2017, 54, 80-87.                              | 0.9 | 50        |
| 18 | Accuracy of Functional and Predictive Methods to Calculate the Hip Joint Center in Young Non-pathologic Asymptomatic Adults with Dual Fluoroscopy as a Reference Standard. <i>Annals of Biomedical Engineering</i> , 2016, 44, 2168-2180. | 1.3 | 48        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Correlation between radiographic measures of acetabular morphology with 3D femoral head coverage in patients with acetabular retroversion. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2012, 83, 233-239.  | 1.2 | 44        |
| 20 | In-vivo hip arthrokinematics during supine clinical exams: Application to the study of femoroacetabular impingement. <i>Journal of Biomechanics</i> , 2015, 48, 2879-2886.   | 0.9 | 44        |
| 21 | Cartilage Thickness: Factors Influencing Multidetector CT Measurements in a Phantom Study. <i>Radiology</i> , 2008, 246, 133-141.  | 3.6 | 43        |
| 22 | Specimen-specific predictions of contact stress under physiological loading in the human hip: validation and sensitivity studies. <i>Biomechanics and Modeling in Mechanobiology</i> , 2014, 13, 387-400.  | 1.4 | 43        |
| 23 | Three-dimensional Quantification of Femoral Head Shape in Controls and Patients with Cam-type Femoroacetabular Impingement. <i>Annals of Biomedical Engineering</i> , 2013, 41, 1162-1171.   | 1.3 | 39        |
| 24 | In-vivo quantification of dynamic hip joint center errors and soft tissue artifact. <i>Gait and Posture</i> , 2016, 50, 246-251.   | 0.6 | 38        |
| 25 | Acetabular Cartilage Thickness: Accuracy of Three-Dimensional Reconstructions from Multidetector CT Arthrograms in a Cadaver Study. <i>Radiology</i> , 2010, 255, 544-552.   | 3.6 | 37        |
| 26 | Subject-specific Patterns of Femur-labrum Contact are Complex and Vary in Asymptomatic Hips and Hips With Femoroacetabular Impingement. <i>Clinical Orthopaedics and Related Research</i> , 2014, 472, 3912-3922.  | 0.7 | 37        |
| 27 | Which Two-dimensional Radiographic Measurements of Cam Femoroacetabular Impingement Best Describe the Three-dimensional Shape of the Proximal Femur?. <i>Clinical Orthopaedics and Related Research</i> , 2019, 477, 242-253.  | 0.7 | 37        |
| 28 | In Vivo Kinematics of the Tibiotalar and Subtalar Joints in Asymptomatic Subjects: A High-Speed Dual Fluoroscopy Study. <i>Journal of Biomechanical Engineering</i> , 2016, 138, .   | 0.6 | 35        |
| 29 | Application of High-Speed Dual Fluoroscopy to Study In Vivo Tibiotalar and Subtalar Kinematics in Patients With Chronic Ankle Instability and Asymptomatic Control Subjects During Dynamic Activities. <i>Foot and Ankle International</i> , 2017, 38, 1236-1248.              | 1.1 | 29        |
| 30 | In Vivo Measurements of the Ischiofemoral Space in Recreationally Active Participants During Dynamic Activities: A High-Speed Dual Fluoroscopy Study. <i>American Journal of Sports Medicine</i> , 2017, 45, 2901-2910.  | 1.9 | 29        |
| 31 | Do Your Routine Radiographs to Diagnose Cam Femoroacetabular Impingement Visualize the Region of the Femoral Head-Neck Junction You Intended?. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2019, 35, 1796-1806.   | 1.3 | 29        |
| 32 | Quantitative comparison of cortical bone thickness using correspondence-based shape modeling in patients with cam femoroacetabular impingement. <i>Journal of Orthopaedic Research</i> , 2017, 35, 1743-1753.  | 1.2 | 26        |
| 33 | Statistical shape modeling of the talocrural joint using a hybrid multi-articulation joint approach. <i>Scientific Reports</i> , 2021, 11, 7314.   | 1.6 | 23        |
| 34 | Hip rotation during standing and dynamic activities and the compensatory effect of femoral anteversion: An in-vivo analysis of asymptomatic young adults using three-dimensional computed tomography models and dual fluoroscopy. <i>Gait and Posture</i> , 2018, 61, 276-281. | 0.6 | 22        |
| 35 | Morphologic analysis of the subtalar joint using statistical shape modeling. <i>Journal of Orthopaedic Research</i> , 2020, 38, 2625-2633.   | 1.2 | 22        |
| 36 | Compensatory Motion of the Subtalar Joint Following Tibiotalar Arthrodesis. <i>Journal of Bone and Joint Surgery - Series A</i> , 2020, 102, 600-608.  | 1.4 | 22        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | Soft tissue artifact causes underestimation of hip joint kinematics and kinetics in a rigid-body musculoskeletal model. <i>Journal of Biomechanics</i> , 2020, 108, 109890.  | 0.9 | 21        |
| 38 | In Vivo Pelvic and Hip Joint Kinematics in Patients With Cam Femoroacetabular Impingement Syndrome: A Dual Fluoroscopy Study. <i>Journal of Orthopaedic Research</i> , 2020, 38, 823-833.  | 1.2 | 20        |
| 39 | Age-related differences in humerothoracic, scapulothoracic, and glenohumeral kinematics during elevation and rotation motions. <i>Journal of Biomechanics</i> , 2021, 117, 110266.   | 0.9 | 20        |
| 40 | Accuracy of 3D dual echo steady state (DESS) MR arthrography to quantify acetabular cartilage thickness. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 42, 1329-1338.   | 1.9 | 18        |
| 41 | Musculoskeletal models with generic and subject-specific geometry estimate different joint biomechanics in dysplastic hips. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2019, 22, 259-270.                              | 0.9 | 18        |
| 42 | Predicting tibiotalar and subtalar joint angles from skin-marker data with dual-fluoroscopy as a reference standard. <i>Gait and Posture</i> , 2016, 49, 136-143.  | 0.6 | 17        |
| 43 | Benchmarking off-the-shelf statistical shape modeling tools in clinical applications. <i>Medical Image Analysis</i> , 2022, 76, 102271.  | 7.0 | 17        |
| 44 | Subject-Specific Axes of Rotation Based on Talar Morphology Do Not Improve Predictions of Tibiotalar and Subtalar Joint Kinematics. <i>Annals of Biomedical Engineering</i> , 2017, 45, 2109-2121.   | 1.3 | 16        |
| 45 | Three-dimensional femoral head coverage in the standing position represents that measured in vivo during gait. <i>Clinical Anatomy</i> , 2018, 31, 1177-1183.  | 1.5 | 15        |
| 46 | Imaging of the subtalar joint: A novel approach to an old problem. <i>Journal of Orthopaedic Research</i> , 2019, 37, 921-926.   | 1.2 | 15        |
| 47 | Changes in chondrolabral mechanics, coverage, and congruency following periacetabular osteotomy for treatment of acetabular retroversion: A patient-specific finite element study. <i>Journal of Orthopaedic Research</i> , 2017, 35, 2567-2576. | 1.2 | 14        |
| 48 | Reliable interpretation of scapular kinematics depends on coordinate system definition. <i>Gait and Posture</i> , 2020, 81, 183-190.   | 0.6 | 13        |
| 49 | How Does Chondrolabral Damage and Labral Repair Influence the Mechanics of the Hip in the Setting of Cam Morphology? A Finite-Element Modeling Study. <i>Clinical Orthopaedics and Related Research</i> , 2022, 480, 602-615.                    | 0.7 | 12        |
| 50 | Does Removal of Subchondral Cortical Bone Provide Sufficient Resection Depth for Treatment of Cam Femoroacetabular Impingement?. <i>Clinical Orthopaedics and Related Research</i> , 2017, 475, 1977-1986.                                       | 0.7 | 10        |
| 51 | Can measurements from an anteroposterior radiograph predict pelvic sagittal inclination?. <i>Journal of Orthopaedic Research</i> , 2020, 38, 1477-1485.  | 1.2 | 10        |
| 52 | Total Ankle Replacement Provides Symmetrical Postoperative Kinematics: A Biplane Fluoroscopy Imaging Study. <i>Foot and Ankle International</i> , 2022, 43, 818-829.   | 1.1 | 10        |
| 53 | The effect of pelvic tilt on three-dimensional coverage of the femoral head: A computational simulation study using patient-specific anatomy. <i>Anatomical Record</i> , 2021, 304, 258-265.   | 0.8 | 8         |
| 54 | The modified Shriners Hospitals for Children Greenville (mSHCG) multi-segment foot model provides clinically acceptable measurements of ankle and midfoot angles: A dual fluoroscopy study. <i>Gait and Posture</i> , 2021, 85, 258-265.         | 0.6 | 8         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 55 | Modified False-Profile Radiograph of the Hip Provides Better Visualization of the Anterosuperior Femoral Head-Neck Junction. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2018, 34, 1236-1243.  | 1.3 | 7         |
| 56 | Methodology for Measurement of in vivo Tibiotalar Kinematics After Total Ankle Replacement Using Dual Fluoroscopy. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 375.   | 2.0 | 7         |
| 57 | Patients with cam-type femoroacetabular impingement demonstrate increased change in bone-to-bone distance during walking: A dual fluoroscopy study. <i>Journal of Orthopaedic Research</i> , 2023, 41, 161-169.   | 1.2 | 7         |
| 58 | Inclusion of the Acetabular Labrum Reduces Simulated Range of Motion of the Hip Compared With Bone Contact Models. <i>Arthroscopy, Sports Medicine, and Rehabilitation</i> , 2020, 2, e779-e787.  | 0.8 | 6         |
| 59 | Effect of Patient Positioning on Measurement of the Anterior Center-Edge Angle on False-Profile Radiographs and Its 3-Dimensional Mapping to the Acetabular Rim. <i>Orthopaedic Journal of Sports Medicine</i> , 2022, 10, 232596712110738.                                 | 0.8 | 6         |
| 60 | CORR Insights®: Increased Hip Stresses Resulting From a Cam Deformity and Decreased Femoral Neck-Shaft Angle During Level Walking. <i>Clinical Orthopaedics and Related Research</i> , 2017, 475, 1009-1012.  | 0.7 | 5         |
| 61 | Assessment of Acetabular Morphology Using the Acetabular Anterior Center-Edge Angle on Modified False-Profile Radiographs. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2019, 35, 3060-3066.  | 1.3 | 5         |
| 62 | The effect of using different coordinate systems on in-vivo hip angles can be estimated from computed tomography images. <i>Journal of Biomechanics</i> , 2019, 95, 109318.   | 0.9 | 5         |
| 63 | Novel model for the induction of postnatal murine hip deformity. <i>Journal of Orthopaedic Research</i> , 2019, 37, 151-160.  | 1.2 | 4         |
| 64 | Combined Estimation of Shape and Pose for Statistical Analysis of Articulating Joints. <i>Lecture Notes in Computer Science</i> , 2020, 12474, 111-121.   | 1.0 | 3         |
| 65 | Prediction of Femoral Head Coverage from Articulated Statistical Shape Models of Patients with Developmental Dysplasia of the Hip. <i>Journal of Orthopaedic Research</i> , 2021, , .   | 1.2 | 3         |
| 66 | Longitudinal study of knee load avoidant movement behavior after total knee arthroplasty with recommendations for future retraining interventions. <i>Knee</i> , 2021, 30, 90-99.   | 0.8 | 2         |
| 67 | The anterior center edge angle has limited ability to predict three-dimensional coverage of the femoral head in patients with developmental dysplasia of the hip undergoing curved periacetabular osteotomy. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2022, , 1. | 1.3 | 2         |
| 68 | Ankle strength, muscle size, and adipose content following unilateral tibiotalar arthrodesis. <i>Journal of Orthopaedic Research</i> , 2019, 37, 1143-1152.   | 1.2 | 1         |
| 69 | CORR Insights®: Head-Neck Osteoplasty has Minor Effect on the Strength of an Ovine Cam-FAI Model: In Vitro and Finite Element Analyses. <i>Clinical Orthopaedics and Related Research</i> , 2016, 474, 2641-2644.   | 0.7 | 0         |
| 70 | CORR Insights®: Patient Age and Hip Morphology Alter Joint Mechanics in Computational Models of Patients with Hip Dysplasia. <i>Clinical Orthopaedics and Related Research</i> , 2019, 477, 1246-1248.  | 0.7 | 0         |
| 71 | CORR Insights®: Does Coronal Plane Malalignment of the Tibial Insert in Total Ankle Arthroplasty Alter Distal Foot Bone Mechanics? A Cadaveric Gait Study. <i>Clinical Orthopaedics and Related Research</i> , 2020, 478, 1696-1698.  | 0.7 | 0         |
| 72 | In Vivo Quantification of Hip Arthrokinematics during Dynamic Weight-bearing Activities using Dual Fluoroscopy. <i>Journal of Visualized Experiments</i> , 2021, , .  | 0.2 | 0         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 73 | CORR Insights®: Is Anterior Rotation of the Acetabulum Necessary to Normalize Joint Contact Pressure in Periacetabular Osteotomy? A Finite-element Analysis Study. Clinical Orthopaedics and Related Research, 2021, Publish Ahead of Print, . | 0.7 | 0         |
| 74 | Pathomechanics of the Dysplastic Hip. , 2020, , 39-53.   |     | 0         |