

William Anderst

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

2,920
citations

430874

18
h-index

254184

43
g-index

48
all docs

48
docs citations

48
times ranked

1836
citing authors

#	ARTICLE	IF	CITATIONS
1	The effect of lateral extra-articular tenodesis on in vivo cartilage contact in combined anterior cruciate ligament reconstruction. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2022, 30, 61-70.	4.2	13
2	Symmetry and sex differences in knee kinematics and ACL elongation in healthy collegiate athletes during high-impact activities revealed through dynamic biplane radiography. <i>Journal of Orthopaedic Research</i> , 2022, 40, 239-251.	2.3	8
3	Does Femoral Head Translation Vary by Sex and Side in Asymptomatic Hips During a Weightbearing Apprehension Test?. <i>Clinical Orthopaedics and Related Research</i> , 2022, Publish Ahead of Print, .	1.5	1
4	Within-subject effects of standardized prosthetic socket modifications on physical function and patient-reported outcomes. <i>Trials</i> , 2022, 23, 299.	1.6	1
5	Healthy ankle and hindfoot kinematics during gait: Sex differences, asymmetry and coupled motion revealed through dynamic biplane radiography. <i>Journal of Biomechanics</i> , 2021, 116, 110220.	2.1	12
6	Lateral Extra-articular Tenodesis Contributes Little to Change In Vivo Kinematics After Anterior Cruciate Ligament Reconstruction: A Randomized Controlled Trial. <i>American Journal of Sports Medicine</i> , 2021, 49, 1803-1812.	4.2	24
7	Syndesmosis Repair Affects in Vivo Distal Interosseous Tibiofibular Ligament Elongation Under Static Loads and During Dynamic Activities. <i>Journal of Bone and Joint Surgery - Series A</i> , 2021, 103, 1927-1936.	3.0	4
8	Residual limb shear strain during gait is correlated with patient reported outcomes for persons with transfemoral amputation. <i>Journal of Biomechanics</i> , 2021, 129, 110826.	2.1	0
9	An automated method for defining anatomic coordinate systems in the hindfoot. <i>Journal of Biomechanics</i> , 2020, 109, 109951.	2.1	16
10	Tibiofemoral helical axis of motion during the full gait cycle measured using biplane radiography. <i>Medical Engineering and Physics</i> , 2020, 86, 65-70.	1.7	5
11	Motion of the residual femur within the socket during gait is associated with patient-reported problems in transfemoral amputees. <i>Journal of Biomechanics</i> , 2020, 112, 110050.	2.1	8
12	Bilateral Symmetry, Sex Differences, and Primary Shape Factors in Ankle and Hindfoot Bone Morphology. <i>Foot & Ankle Orthopaedics</i> , 2020, 5, 247301142090879.	0.2	11
13	Validation and application of dynamic biplane radiography to study in vivo ankle joint kinematics during high-demand activities. <i>Journal of Biomechanics</i> , 2020, 103, 109696.	2.1	15
14	In Vivo Ankle Kinematics Revealed Through Biplane Radiography: Current Concepts, Recent Literature, and Future Directions. <i>Current Reviews in Musculoskeletal Medicine</i> , 2020, 13, 77-85.	3.5	6
15	Knee Kinematics of Healthy Adults Measured Using Biplane Radiography. <i>Journal of Biomechanical Engineering</i> , 2020, 142, .	1.3	5
16	Determining Subject-Specific Lower-Limb Muscle Architecture Data for Musculoskeletal Models Using Diffusion Tensor Imaging. <i>Journal of Biomechanical Engineering</i> , 2019, 141, .	1.3	17
17	The Complex Relationship Between In Vivo ACL Elongation and Knee Kinematics During Walking and Running. <i>Journal of Orthopaedic Research</i> , 2019, 37, 1920-1928.	2.3	24
18	Asymmetry in healthy adult knee kinematics revealed through biplane radiography of the full gait cycle. <i>Journal of Orthopaedic Research</i> , 2019, 37, 609-614.	2.3	18

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19	Unloader knee brace increases medial compartment joint space during gait in knee osteoarthritis patients. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2019, 27, 2354-2360.	4.2	3
20	Anterior Cruciate Ligament Reconstruction Affects Tibiofemoral Joint Congruency During Dynamic Functional Movement. <i>American Journal of Sports Medicine</i> , 2018, 46, 1566-1574.	4.2	11
21	Anterior cruciate ligament tibial insertion site is elliptical or triangular shaped in healthy young adults: high-resolution 3-T MRI analysis. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2018, 26, 485-490.	4.2	29
22	Knee hyperextension does not adversely affect dynamic in vivo kinematics after anterior cruciate ligament reconstruction. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2018, 26, 448-454.	4.2	11
23	Kinematics and arthrokinematics in the chronic ACL-deficient knee are altered even in the absence of instability symptoms. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2018, 26, 1406-1413.	4.2	23
24	Patient-reported outcome measures following anterior cruciate ligament reconstruction are not related to dynamic knee extension angle. <i>Journal of ISAKOS</i> , 2018, 3, 33-37.	2.3	1
25	Editorial Commentary: Using Computer Simulations to Predict Functional Outcome After Surgery. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2018, 34, 1104.	2.7	0
26	Steeper posterior tibial slope correlates with greater tibial tunnel widening after anterior cruciate ligament reconstruction. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2018, 26, 3717-3723.	4.2	21
27	In vivo validation of patellofemoral kinematics during overground gait and stair ascent. <i>Gait and Posture</i> , 2018, 64, 191-197.	1.4	8
28	The Graft Bending Angle Can Affect Early Graft Healing After Anterior Cruciate Ligament Reconstruction: In Vivo Analysis With 2 Years' Follow-up. <i>American Journal of Sports Medicine</i> , 2017, 45, 1829-1836.	4.2	51
29	In Vivo Analysis of Dynamic Graft Bending Angle in Anterior Cruciate Ligament-Reconstructed Knees During Downward Running and Level Walking: Comparison of Flexible and Rigid Drills for Transportal Technique. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2017, 33, 1393-1402.	2.7	21
30	Instantaneous centers of rotation for lumbar segmental extension in vivo. <i>Journal of Biomechanics</i> , 2017, 52, 113-121.	2.1	27
31	Dynamic in vivo 3D atlantoaxial spine kinematics during upright rotation. <i>Journal of Biomechanics</i> , 2017, 60, 110-115.	2.1	20
32	Narrative review of the in vivo mechanics of the cervical spine after anterior arthrodesis as revealed by dynamic biplane radiography. <i>Journal of Orthopaedic Research</i> , 2016, 34, 22-30.	2.3	3
33	Cervical Spine Disc Deformation During In Vivo Three-Dimensional Head Movements. <i>Annals of Biomedical Engineering</i> , 2016, 44, 1598-1612.	2.5	9
34	Apportionment of lumbar L2-S1 rotation across individual motion segments during a dynamic lifting task. <i>Journal of Biomechanics</i> , 2015, 48, 3709-3715.	2.1	18
35	Hierarchical model-based tracking of cervical vertebrae from dynamic biplane radiographs. <i>Medical Engineering and Physics</i> , 2013, 35, 994-1004.	1.7	14
36	Cervical disc deformation during flexion-extension in asymptomatic controls and single-level arthrodesis patients. <i>Journal of Orthopaedic Research</i> , 2013, 31, 1881-1889.	2.3	17

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37	Motion Path of the Instant Center of Rotation in the Cervical Spine During In Vivo Dynamic Flexion-Extension. <i>Spine</i> , 2013, 38, E594-E601.	2.0	64
38	The Location of Femoral and Tibial Tunnels in Anatomic Double-Bundle Anterior Cruciate Ligament Reconstruction Analyzed by Three-Dimensional Computed Tomography Models. <i>Journal of Bone and Joint Surgery - Series A</i> , 2010, 92, 1418-1426.	3.0	288
39	Nonanatomic Tunnel Position in Traditional Transtibial Single-Bundle Anterior Cruciate Ligament Reconstruction Evaluated by Three-Dimensional Computed Tomography. <i>Journal of Bone and Joint Surgery - Series A</i> , 2010, 92, 1427-1431.	3.0	223
40	Validation of three-dimensional model-based tibio-femoral tracking during running. <i>Medical Engineering and Physics</i> , 2009, 31, 10-16.	1.7	224
41	Dynamic Function of the ACL-reconstructed Knee during Running. <i>Clinical Orthopaedics and Related Research</i> , 2007, 454, 66-73.	1.5	281
42	A study of the response of the human cadaver head to impact. <i>Stapp Car Crash Journal</i> , 2007, 51, 17-80.	1.1	198
43	Kinematics of the ACL-deficient canine knee during gait: Serial changes over two years. <i>Journal of Orthopaedic Research</i> , 2004, 22, 931-941.	2.3	146
44	Abnormal Rotational Knee Motion during Running after Anterior Cruciate Ligament Reconstruction. <i>American Journal of Sports Medicine</i> , 2004, 32, 975-983.	4.2	647
45	Elevated Joint Contact Forces in ACL-Reconstructed Knees: A Finite Element Analysis Driven by In Vivo Kinematic Data. , 2003, , 231.		1
46	In-Vivo Measurement of Dynamic Joint Motion Using High Speed Biplane Radiography and CT: Application to Canine ACL Deficiency. <i>Journal of Biomechanical Engineering</i> , 2003, 125, 238-245.	1.3	254
47	Abnormal Internal/External and Varus/Valgus Rotations in ACL-Reconstructed Knees During Running: Analysis by High Frame-Rate Stereo-Radiography. , 2003, , 227.		0
48	A Study of the Response of the Human Cadaver Head to Impact. , 0, , .		119