William Anderst

List of Publications by Year
in descending order

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	Abnormal Rotational Knee Motion during Running after Anterior Cruciate Ligament Reconstruction. American Journal of Sports Medicine, 2004, 32, 975-983.	4.2	647
2	The Location of Femoral and Tibial Tunnels in Anatomic Double-Bundle Anterior Cruciate Ligament Reconstruction Analyzed by Three-Dimensional Computed Tomography Models. Journal of Bone and Joint Surgery - Series A, 2010, 92, 1418-1426.	3.0	288
3	Dynamic Function of the ACL-reconstructed Knee during Running. Clinical Orthopaedics and Related Research, 2007, 454, 66-73.	1.5	281
4	In-Vivo Measurement of Dynamic Joint Motion Using High Speed Biplane Radiography and CT: Application to Canine ACL Deficiency. Journal of Biomechanical Engineering, 2003, 125, 238-245.	1.3	254
5	Validation of three-dimensional model-based tibio-femoral tracking during running. Medical Engineering and Physics, 2009, 31, 10-16.	1.7	224
6	Nonanatomic Tunnel Position in Traditional Transtibial Single-Bundle Anterior Cruciate Ligament Reconstruction Evaluated by Three-Dimensional Computed Tomography. Journal of Bone and Joint Surgery - Series A, 2010, 92, 1427-1431.	3.0	223
7	A study of the response of the human cadaver head to impact. Stapp Car Crash Journal, 2007, 51, 17-80.	1.1	198
8	Kinematics of the ACL-deficient canine knee during gait: Serial changes over two years. Journal of Orthopaedic Research, 2004, 22, 931-941.	2.3	146
9	A Study of the Response of the Human Cadaver Head to Impact. , 0, , .		119
10	Motion Path of the Instant Center of Rotation in the Cervical Spine During In Vivo Dynamic Flexion-Extension. Spine, 2013, 38, E594-E601.	2.0	64
11	The Graft Bending Angle Can Affect Early Graft Healing After Anterior Cruciate Ligament Reconstruction: In Vivo Analysis With 2 Yearsâ€™ Follow-up. American Journal of Sports Medicine, 2017, 45, 1829-1836.	4.2	51
12	Anterior cruciate ligament tibial insertion site is elliptical or triangular shaped in healthy young adults: high-resolution 3-T MRI analysis. Knee Surgery, Sports Traumatology, Arthroscopy, 2018, 26, 485-490.	4.2	29
13	Instantaneous centers of rotation for lumbar segmental extension in vivo. Journal of Biomechanics, 2017, 52, 113-121.	2.1	27
14	The Complex Relationship Between In Vivo ACL Elongation and Knee Kinematics During Walking and Running. Journal of Orthopaedic Research, 2019, 37, 1920-1928.	2.3	24
15	Lateral Extra-articular Tenodesis Contributes Little to Change In Vivo Kinematics After Anterior Cruciate Ligament Reconstruction: A Randomized Controlled Trial. American Journal of Sports Medicine, 2021, 49, 1803-1812.	4.2	24
16	Kinematics and arthrokinematics in the chronic ACL-deficient knee are altered even in the absence of instability symptoms. Knee Surgery, Sports Traumatology, Arthroscopy, 2018, 26, 1406-1413.	4.2	23
17	InÂVivo Analysis of Dynamic Graft Bending Angle in Anterior Cruciate Ligamentâ€“Reconstructed Knees During Downward Running and Level Walking: Comparison of Flexible and Rigid Drills for Transportal Technique. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2017, 33, 1393-1402.	2.7	21
18	Steeper posterior tibial slope correlates with greater tibial tunnel widening after anterior cruciate ligament reconstruction. Knee Surgery, Sports Traumatology, Arthroscopy, 2018, 26, 3717-3723.	4.2	21

#	Article	IF	Citations
19	Dynamic in vivo 3D atlantoaxial spine kinematics during upright rotation. Journal of Biomechanics, 2017, 60, 110-115.	2.1	20
20	Apportionment of lumbar L2â€“S1 rotation across individual motion segments during a dynamic lifting task. Journal of Biomechanics, 2015, 48, 3709-3715.	2.1	18
21	Asymmetry in healthy adult knee kinematics revealed through biplane radiography of the full gait cycle. Journal of Orthopaedic Research, 2019, 37, 609-614.	2.3	18
22	Cervical disc deformation during flexionâ€“extension in asymptomatic controls and singleâ€level arthrodesis patients. Journal of Orthopaedic Research, 2013, 31, 1881-1889.	2.3	17
23	Determining Subject-Specific Lower-Limb Muscle Architecture Data for Musculoskeletal Models Using Diffusion Tensor Imaging. Journal of Biomechanical Engineering, 2019, 141, .	1.3	17
24	An automated method for defining anatomic coordinate systems in the hindfoot. Journal of Biomechanics, 2020, 109, 109951.	2.1	16
25	Validation and application of dynamic biplane radiography to study in vivo ankle joint kinematics during high-demand activities. Journal of Biomechanics, 2020, 103, 109696.	2.1	15
26	Hierarchical model-based tracking of cervical vertebrae from dynamic biplane radiographs. Medical Engineering and Physics, 2013, 35, 994-1004.	1.7	14
27	The effect of lateral extra-articular tenodesis on in vivo cartilage contact in combined anterior cruciate ligament reconstruction. Knee Surgery, Sports Traumatology, Arthroscopy, 2022, 30, 61-70.	4.2	13
28	Healthy ankle and hindfoot kinematics during gait: Sex differences, asymmetry and coupled motion revealed through dynamic biplane radiography. Journal of Biomechanics, 2021, 116, 110220.	2.1	12
29	Anterior Cruciate Ligament Reconstruction Affects Tibiofemoral Joint Congruency During Dynamic Functional Movement. American Journal of Sports Medicine, 2018, 46, 1566-1574.	4.2	11
30	Knee hyperextension does not adversely affect dynamic in vivo kinematics after anterior cruciate ligament reconstruction. Knee Surgery, Sports Traumatology, Arthroscopy, 2018, 26, 448-454.	4.2	11
31	Bilateral Symmetry, Sex Differences, and Primary Shape Factors in Ankle and Hindfoot Bone Morphology. Foot & Ankle Orthopaedics, 2020, 5, 247301142090879.	0.2	11
32	Cervical Spine Disc Deformation During In Vivo Three-Dimensional Head Movements. Annals of Biomedical Engineering, 2016, 44, 1598-1612.	2.5	9
33	In vivo validation of patellofemoral kinematics during overground gait and stair ascent. Gait and Posture, 2018, 64, 191-197.	1.4	8
34	Motion of the residual femur within the socket during gait is associated with patient-reported problems in transfemoral amputees. Journal of Biomechanics, 2020, 112, 110050.	2.1	8
35	Symmetry and sex differences in knee kinematics and ACL elongation in healthy collegiate athletes during highâ€impact activities revealed through dynamic biplane radiography. Journal of Orthopaedic Research, 2022, 40, 239-251.	2.3	8
36	In Vivo Ankle Kinematics Revealed Through Biplane Radiography: Current Concepts, Recent Literature, and Future Directions. Current Reviews in Musculoskeletal Medicine, 2020, 13, 77-85.	3.5	6

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37	Tibiofemoral helical axis of motion during the full gait cycle measured using biplane radiography. Medical Engineering and Physics, 2020, 86, 65-70.	1.7	5
38	Knee Kinematics of Healthy Adults Measured Using Biplane Radiography. Journal of Biomechanical Engineering, 2020, 142, .	1.3	5
39	Syndesmosis Repair Affects in Vivo Distal Interosseous Tibiofibular Ligament Elongation Under Static Loads and During Dynamic Activities. Journal of Bone and Joint Surgery - Series A, 2021, 103, 1927-1936.	3.0	4
40	Narrative review of the in vivo mechanics of the cervical spine after anterior arthrodesis as revealed by dynamic biplane radiography. Journal of Orthopaedic Research, 2016, 34, 22-30.	2.3	3
41	Unloader knee brace increases medial compartment joint space during gait in knee osteoarthritis patients. Knee Surgery, Sports Traumatology, Arthroscopy, 2019, 27, 2354-2360.	4.2	3
42	Elevated Joint Contact Forces in ACL-Reconstructed Knees: A Finite Element Analysis Driven by In Vivo Kinematic Data. , 2003, , 231.		1
43	Patient-reported outcome measures following anterior cruciate ligament reconstruction are not related to dynamic knee extension angle. Journal of ISAKOS, 2018, 3, 33-37.	2.3	1
44	Does Femoral Head Translation Vary by Sex and Side in Asymptomatic Hips During a Weightbearing Apprehension Test?. Clinical Orthopaedics and Related Research, 2022, Publish Ahead of Print, .	1.5	1
45	Within-subject effects of standardized prosthetic socket modifications on physical function and patient-reported outcomes. Trials, 2022, 23, 299.	1.6	1
46	Abnormal Internal/External and Varus/Valgus Rotations in ACL-Reconstructed Knees During Running: Analysis by High Frame-Rate Stereo-Radiography. , 2003, , 227.		0
47	Editorial Commentary: Using Computer Simulations to Predict Functional Outcome After Surgery. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2018, 34, 1104.	2.7	0
48	Residual limb shear strain during gait is correlated with patient reported outcomes for persons with transfemoral amputation. Journal of Biomechanics, 2021, 129, 110826.	2.1	0