

# William R Taylor

## List of Publications by Year in descending order

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174  
papers

6,370  
citations

57758

44  
h-index

82547

72  
g-index

187  
all docs

187  
docs citations

187  
times ranked

5814  
citing authors

#	ARTICLE	IF	CITATIONS
1	A survey of formal methods for determining the centre of rotation of ball joints. Journal of Biomechanics, 2006, 39, 2798-2809.	2.1	342
2	Tibio-femoral loading during human gait and stair climbing. Journal of Orthopaedic Research, 2004, 22, 625-632.	2.3	311
3	Kinematic measures for assessing gait stability in elderly individuals: a systematic review. Journal of the Royal Society Interface, 2011, 8, 1682-1698.	3.4	310
4	Terminally Differentiated CD8 <sup>+</sup> T Cells Negatively Affect Bone Regeneration in Humans. Science Translational Medicine, 2013, 5, 177ra36.	12.4	250
5	A survey of formal methods for determining functional joint axes. Journal of Biomechanics, 2007, 40, 2150-2157.	2.1	225
6	Determination of orthotropic bone elastic constants using FEA and modal analysis. Journal of Biomechanics, 2002, 35, 767-773.	2.1	204
7	Physiologically based boundary conditions in finite element modelling. Journal of Biomechanics, 2007, 40, 2318-2323.	2.1	173
8	On the influence of soft tissue coverage in the determination of bone kinematics using skin markers. Journal of Orthopaedic Research, 2005, 23, 726-734.	2.3	146
9	Low back pain and its relationship with sitting behaviour among sedentary office workers. Applied Ergonomics, 2019, 81, 102894.	3.1	122
10	Tibio-femoral joint contact forces in sheep. Journal of Biomechanics, 2006, 39, 791-798.	2.1	109
11	Is gait variability reliable? An assessment of spatio-temporal parameters of gait variability during continuous overground walking. Gait and Posture, 2014, 39, 615-617.	1.4	105
12	Efficacy of the Functional Movement Screen. Journal of Strength and Conditioning Research, 2014, 28, 3571-3584.	2.1	104
13	Developmental Hip Dysplasia Treated with Total Hip Arthroplasty with a Straight Stem and a Threaded Cup. Journal of Bone and Joint Surgery - Series A, 2004, 86, 312-319.	3.0	95
14	An enhanced and validated generic thoraco-lumbar spine model for prediction of muscle forces. Medical Engineering and Physics, 2012, 34, 709-716.	1.7	94
15	Mechanical conditions in the initial phase of bone healing. Clinical Biomechanics, 2006, 21, 646-655.	1.2	90
16	Joint line elevation in revision TKA leads to increased patellofemoral contact forces. Journal of Orthopaedic Research, 2010, 28, 1-5.	2.3	88
17	A comprehensive assessment of the musculoskeletal system: The CAMS-Knee data set. Journal of Biomechanics, 2017, 65, 32-39.	2.1	82
18	Lumbar spinal loads vary with body height and weight. Medical Engineering and Physics, 2013, 35, 969-977.	1.7	81

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19	Patellofemoral joint contact forces during activities with high knee flexion. <i>Journal of Orthopaedic Research</i> , 2012, 30, 408-415.	2.3	77
20	Soft Tissue Artefacts of the Human Back: Comparison of the Sagittal Curvature of the Spine Measured Using Skin Markers and an Open Upright MRI. <i>PLoS ONE</i> , 2014, 9, e95426.	2.5	74
21	Modulation of the Relationship Between External Knee Adduction Moments and Medial Joint Contact Forces Across Subjects and Activities. <i>Arthritis and Rheumatology</i> , 2014, 66, 1218-1227.	5.6	73
22	Repeatability and reproducibility of OSSCA, a functional approach for assessing the kinematics of the lower limb. <i>Gait and Posture</i> , 2010, 32, 231-236.	1.4	72
23	Are pressure measurements effective in the assessment of office chair comfort/discomfort? A review. <i>Applied Ergonomics</i> , 2015, 48, 273-282.	3.1	70
24	Comparative evaluation of a novel measurement tool to assess lumbar spine posture and range of motion. <i>European Spine Journal</i> , 2012, 21, 2170-2180.	2.2	69
25	THA loading arising from increased femoral anteversion and offset may lead to critical cement stresses. <i>Journal of Orthopaedic Research</i> , 2003, 21, 767-774.	2.3	68
26	Absolute and functional iron deficiency in professional athletes during training and recovery. <i>International Journal of Cardiology</i> , 2012, 156, 186-191.	1.7	68
27	Comparison of unreamed nailing and external fixation of tibial diastasesâ€™ mechanical conditions during healing and biological outcome. <i>Journal of Orthopaedic Research</i> , 2004, 22, 1072-1078.	2.3	65
28	The spectral content of postural sway during quiet stance: Influences of age, vision and somatosensory inputs. <i>Journal of Electromyography and Kinesiology</i> , 2012, 22, 131-136.	1.7	64
29	Towards clinical application: Repetitive sensor position re-calibration for improved reliability of gait parameters. <i>Gait and Posture</i> , 2014, 39, 1146-1148.	1.4	64
30	Revealing the quality of movement: A meta-analysis review to quantify the thresholds to pathological variability during standing and walking. <i>Neuroscience and Biobehavioral Reviews</i> , 2016, 68, 111-119.	6.1	62
31	Influence of changes in stem positioning on femoral loading after THR using a short-stemmed hip implant. <i>Clinical Biomechanics</i> , 2007, 22, 431-439.	1.2	57
32	Application of Machine Learning Approaches for Classifying Sitting Posture Based on Force and Acceleration Sensors. <i>BioMed Research International</i> , 2016, 2016, 1-9.	1.9	56
33	The influence of alignment on the musculo-skeletal loading conditions at the knee. <i>Langenbeck's Archives of Surgery</i> , 2003, 388, 291-297.	1.9	54
34	Kinematic Evaluation of the GMK Sphere Implant During Gait Activities: A Dynamic Videofluoroscopy Study. <i>Journal of Orthopaedic Research</i> , 2019, 37, 2337-2347.	2.3	53
35	The Expression of Proinflammatory Cytokines and Matrix Metalloproteinases in the Synovial Membranes of Patients With Osteoarthritis Compared With Traumatic Knee Disorders. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2010, 26, 1096-1104.	2.7	52
36	The SCoRE residual: A quality index to assess the accuracy of joint estimations. <i>Journal of Biomechanics</i> , 2011, 44, 1400-1404.	2.1	52

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37	Quantifying spinal gait kinematics using an enhanced optical motion capture approach in adolescent idiopathic scoliosis. <i>Gait and Posture</i> , 2016, 44, 231-237.	1.4	51
38	Using Skin Markers for Spinal Curvature Quantification in Main Thoracic Adolescent Idiopathic Scoliosis: An Explorative Radiographic Study. <i>PLoS ONE</i> , 2015, 10, e0135689.	2.5	51
39	Increased unilateral tendon stiffness and its effect on gait 2â€“6 years after <scp>A</scp>chilles tendon rupture. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2015, 25, 860-867.	2.9	49
40	Minimal detectable difference of the finger and wrist range of motion: comparison of goniometry and 3D motion analysis. <i>Journal of Orthopaedic Surgery and Research</i> , 2019, 14, 173.	2.3	49
41	Seat pan and backrest pressure distribution while sitting in office chairs. <i>Applied Ergonomics</i> , 2016, 53, 1-9.	3.1	47
42	How to squat? Effects of various stance widths, foot placement angles and level of experience on knee, hip and trunk motion and loading. <i>BMC Sports Science, Medicine and Rehabilitation</i> , 2018, 10, 14.	1.7	47
43	Anterior Cruciate Ligamentâ€“Deficient Patients With Passive Knee Joint Laxity Have a Decreased Range of Anterior-Posterior Motion During Active Movements. <i>American Journal of Sports Medicine</i> , 2013, 41, 1051-1057.	4.2	46
44	Identification of functional parameters for the classification of older female fallers and prediction of â€“first-timeâ€™ fallers. <i>Journal of the Royal Society Interface</i> , 2014, 11, 20140353.	3.4	46
45	Wearable Inertial Measurement Units for Assessing Gait in Real-World Environments. <i>Frontiers in Physiology</i> , 2020, 11, 90.	2.8	46
46	Gait evaluation: A tool to monitor bone healing?. <i>Clinical Biomechanics</i> , 2005, 20, 883-891.	1.2	45
47	A novel system for the dynamic assessment of back shape. <i>Medical Engineering and Physics</i> , 2010, 32, 1080-1083.	1.7	44
48	The weighted optimal common shape technique improves identification of the hip joint center of rotation in vivo. <i>Journal of Orthopaedic Research</i> , 2011, 29, 1470-1475.	2.3	43
49	Occupational sitting behaviour and its relationship with back pain â€“ A pilot study. <i>Applied Ergonomics</i> , 2016, 56, 84-91.	3.1	41
50	The Influence of Recovery and Training Phases on Body Composition, Peripheral Vascular Function and Immune System of Professional Soccer Players. <i>PLoS ONE</i> , 2009, 4, e4910.	2.5	39
51	Spinal kinematics during gait in healthy individuals across different age groups. <i>Human Movement Science</i> , 2017, 54, 73-81.	1.4	39
52	A moving fluoroscope to capture tibiofemoral kinematics during complete cycles of free level and downhill walking as well as stair descent. <i>PLoS ONE</i> , 2017, 12, e0185952.	2.5	39
53	Stair climbing results in more challenging patellofemoral contact mechanics and kinematics than walking at early knee flexion under physiological-like quadriceps loading. <i>Journal of Biomechanics</i> , 2009, 42, 2590-2596.	2.1	37
54	Can Gait Signatures Provide Quantitative Measures for Aiding Clinical Decision-Making? A Systematic Meta-Analysis of Gait Variability Behavior in Patients with Parkinson's Disease. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 319.	2.0	37

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55	Effective marker placement for functional identification of the centre of rotation at the hip. <i>Gait and Posture</i> , 2012, 36, 482-486.	1.4	33
56	Towards the assessment of local dynamic stability of level-grounded walking in an older population. <i>Medical Engineering and Physics</i> , 2015, 37, 1152-1155.	1.7	32
57	Soft Electronic Strain Sensor with Chipless Wireless Readout: Toward Real-Time Monitoring of Bladder Volume. <i>Advanced Materials Technologies</i> , 2018, 3, 1800031.	5.8	32
58	Velocity of Lordosis Angle during Spinal Flexion and Extension. <i>PLoS ONE</i> , 2012, 7, e50135.	2.5	31
59	Properties and Function of the Medial Patellofemoral Ligament: A Systematic Review. <i>American Journal of Sports Medicine</i> , 2020, 48, 754-766.	4.2	31
60	Finite element biphasic indentation of cartilage: A comparison of experimental indenter and physiological contact geometries. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2001, 215, 487-496.	1.8	30
61	The Capacity of Generic Musculoskeletal Simulations to Predict Knee Joint Loading Using the CAMS-Knee Datasets. <i>Annals of Biomedical Engineering</i> , 2020, 48, 1430-1440.	2.5	29
62	Loading Patterns of the Posterior Cruciate Ligament in the Healthy Knee: A Systematic Review. <i>PLoS ONE</i> , 2016, 11, e0167106.	2.5	29
63	Extreme Levels of Noise Constitute a Key Neuromuscular Deficit in the Elderly. <i>PLoS ONE</i> , 2012, 7, e48449.	2.5	28
64	Does partial weight bearing unload a healing bone in external ring fixation?. <i>Langenbeck's Archives of Surgery</i> , 2003, 388, 298-304.	1.9	27
65	Modulation of Matrix Metalloprotease-2 Levels by Mechanical Loading of Three-Dimensional Mesenchymal Stem Cell Constructs: Impact on <i>In Vitro</i> Tube Formation. <i>Tissue Engineering - Part A</i> , 2010, 16, 3139-3148.	3.1	27
66	Generic Rules of Mechano-Regulation Combined with Subject Specific Loading Conditions Can Explain Bone Adaptation after THA. <i>PLoS ONE</i> , 2012, 7, e36231.	2.5	27
67	The direct lateral approach: impact on gait patterns, foot progression angle and pain in comparison with a minimally invasive anterolateral approach. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2012, 132, 725-731.	2.4	27
68	Assessing the Temporal Organization of Walking Variability: A Systematic Review and Consensus Guidelines on Detrended Fluctuation Analysis. <i>Frontiers in Physiology</i> , 2020, 11, 562.	2.8	27
69	Distribution of bone mineral density with age and gender in the proximal tibia. <i>Clinical Biomechanics</i> , 2004, 19, 370-376.	1.2	26
70	Surgical Approach Influences Periprosthetic Femoral Bone Density. <i>Clinical Orthopaedics and Related Research</i> , 2005, 432, 153-159.	1.5	26
71	Knee implant kinematics are task-dependent. <i>Journal of the Royal Society Interface</i> , 2019, 16, 20180678.	3.4	26
72	Effect of fatigue on force fluctuations in knee extensors in young adults. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010, 368, 2783-2798.	3.4	25

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73	Collateral ligament length change patterns after joint line elevation may not explain midflexion instability following TKA. <i>Medical Engineering and Physics</i> , 2011, 33, 1303-1308.	1.7	25
74	Revealing the optimal thresholds for movement performance: A systematic review and meta-analysis to benchmark pathological walking behaviour. <i>Neuroscience and Biobehavioral Reviews</i> , 2020, 108, 24-33.	6.1	24
75	Evaluation of an intensity-based algorithm for 2D/3D registration of natural knee videofluoroscopy data. <i>Medical Engineering and Physics</i> , 2020, 77, 107-113.	1.7	24
76	The medial-lateral force distribution in the ovine stifle joint during walking. <i>Journal of Orthopaedic Research</i> , 2011, 29, 567-571.	2.3	23
77	European Society of Biomechanics S.M. Perren Award 2014: Safety factor of the proximal femur during gait: A population-based finite element study. <i>Journal of Biomechanics</i> , 2014, 47, 3433-3440.	2.1	23
78	Review of Modelling Techniques for <i>In Vivo</i> Muscle Force Estimation in the Lower Extremities during Strength Training. <i>Computational and Mathematical Methods in Medicine</i> , 2015, 2015, 1-12.	1.3	23
79	Biomechanical, Microvascular, and Cellular Factors Promote Muscle and Bone Regeneration. <i>Exercise and Sport Sciences Reviews</i> , 2008, 36, 64-70.	3.0	22
80	Evaluation of the accuracy of musculoskeletal simulation during squats by means of instrumented knee prostheses. <i>Medical Engineering and Physics</i> , 2018, 61, 95-99.	1.7	22
81	Tibio-femoral kinematics of the healthy knee joint throughout complete cycles of gait activities. <i>Journal of Biomechanics</i> , 2020, 110, 109915.	2.1	22
82	Bone Remodelling of a Proximal Femur with the Thrust Plate Prosthesis: An <i>In Vitro</i> Case. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2004, 7, 131-137.	1.6	20
83	Joint Angles of the Ankle, Knee, and Hip and Loading Conditions During Split Squats. <i>Journal of Applied Biomechanics</i> , 2014, 30, 373-380.	0.8	20
84	Can low-frequency guided waves at the tibia paired with machine learning differentiate between healthy and osteopenic/osteoporotic subjects? A pilot study. <i>Ultrasonics</i> , 2019, 94, 109-116.	3.9	20
85	Towards validation and standardization of automatic gait event identification algorithms for use in paediatric pathological populations. <i>Gait and Posture</i> , 2021, 86, 64-69.	1.4	20
86	The Restoration of Passive Rotational Tibio-Femoral Laxity after Anterior Cruciate Ligament Reconstruction. <i>PLoS ONE</i> , 2016, 11, e0159600.	2.5	19
87	Elongation Patterns of the Collateral Ligaments After Total Knee Arthroplasty Are Dominated by the Knee Flexion Angle. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 323.	4.1	19
88	Techniques for <i>In Vivo</i> Measurement of Ligament and Tendon Strain: A Review. <i>Annals of Biomedical Engineering</i> , 2021, 49, 7-28.	2.5	19
89	A new model to predict <i>in vivo</i> human knee kinematics under physiological-like muscle activation. <i>Journal of Biomechanics</i> , 2007, 40, S45-S53.	2.1	18
90	<i>In Vivo</i> Spinal Posture during Upright and Reclined Sitting in an Office Chair. <i>BioMed Research International</i> , 2013, 2013, 1-5.	1.9	18

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91	The Effects of Selective Dorsal Rhizotomy on Balance and Symmetry of Gait in Children with Cerebral Palsy. PLoS ONE, 2016, 11, e0152930.	2.5	18
92	High-heeled walking decreases lumbar lordosis. Gait and Posture, 2017, 55, 12-14.	1.4	17
93	Risk Factors for Knee Injury in Golf: A Systematic Review. Sports Medicine, 2017, 47, 2621-2639.	6.5	17
94	Wheelchair Tilt-in-Space and Recline Functions: Influence on Sitting Interface Pressure and Ischial Blood Flow in an Elderly Population. BioMed Research International, 2019, 2019, 1-10.	1.9	17
95	Influence of prosthesis design and implantation technique on implant stresses after cementless revision THR. Journal of Orthopaedic Surgery and Research, 2011, 6, 20.	2.3	16
96	Short-term functional assessment of gait, plantarflexor strength, and tendon properties after Achilles tendon rupture. Gait and Posture, 2018, 62, 179-185.	1.4	16
97	Length-Change Patterns of the Collateral Ligaments During Functional Activities After Total Knee Arthroplasty. Annals of Biomedical Engineering, 2020, 48, 1396-1406.	2.5	16
98	Frontal plane alignment: An imageless method to predict the mechanical femoral-tibial angle (mFTA) based on functional determination of joint centres and axes. Gait and Posture, 2010, 31, 204-208.	1.4	14
99	Kinetic and kinematic differences between deadlifts and goodmornings. The Sports Medicine, Arthroscopy, Rehabilitation and Technology, 2013, 5, 27.	1.0	14
100	Orthotic correction of lower limb function during gait does not immediately influence spinal kinematics in spastic hemiplegic cerebral palsy. Gait and Posture, 2016, 49, 457-462.	1.4	14
101	Towards evidence based strength training: a comparison of muscle forces during deadlifts, goodmornings and split squats. BMC Sports Science, Medicine and Rehabilitation, 2017, 9, 13.	1.7	14
102	A method to concatenate multiple short time series for evaluating dynamic behaviour during walking. PLoS ONE, 2019, 14, e0218594.	2.5	14
103	Finite element prediction of endosteal and periosteal bone remodelling in the turkey ulna: Effect of remodelling signal and dead-zone definition. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2003, 217, 349-356.	1.8	13
104	Investigating the effect of remodelling signal type on the finite element based predictions of bone remodelling around the thrust plate prosthesis: A patient-specific comparison. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2004, 218, 417-424.	1.8	13
105	The quality of bone surfaces may govern the use of model based fluoroscopy in the determination of joint laxity. Medical Engineering and Physics, 2012, 34, 1427-1432.	1.7	13
106	Influence of the moving fluoroscope on gait patterns. PLoS ONE, 2018, 13, e0200608.	2.5	13
107	Feedback improves compliance of pressure relief activities in wheelchair users with spinal cord injury. Spinal Cord, 2021, 59, 175-184.	1.9	13
108	Regulation of the patellofemoral contact area: An essential mechanism in patellofemoral joint mechanics?. Journal of Biomechanics, 2010, 43, 3237-3239.	2.1	12

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109	Temporal but Not Spatial Variability during Gait Is Reduced after Selective Dorsal Rhizotomy in Children with Cerebral Palsy. <i>PLoS ONE</i> , 2013, 8, e69500.	2.5	12
110	The difference between stretching and splitting muscle trauma during THA seems not to play a dominant role in influencing periprosthetic BMD changes. <i>Clinical Biomechanics</i> , 2012, 27, 813-818.	1.2	11
111	Towards understanding knee joint laxity: Errors in non-invasive assessment of joint rotation can be corrected. <i>Medical Engineering and Physics</i> , 2014, 36, 889-895.	1.7	11
112	Kinematics and Kinetics of Squats, Drop Jumps and Imitation Jumps of Ski Jumpers. <i>Journal of Strength and Conditioning Research</i> , 2016, 30, 643-652.	2.1	11
113	The effect of elevating the heels on spinal kinematics and kinetics during the back squat in trained and novice weight trainers. <i>Journal of Sports Sciences</i> , 2020, 38, 1000-1008.	2.0	11
114	Tibio-Femoral Contact Force Distribution is Not the Only Factor Governing Pivot Location after Total Knee Arthroplasty. <i>Scientific Reports</i> , 2019, 9, 182.	3.3	10
115	Does variability of footfall kinematics correlate with dynamic stability of the centre of mass during walking?. <i>PLoS ONE</i> , 2019, 14, e0217460.	2.5	10
116	Finite element derived femoral strength is a better predictor of hip fracture risk than aBMD in the AGES Reykjavik study cohort. <i>Bone</i> , 2022, 154, 116219.	2.9	10
117	European Society of Biomechanics S.M. Perren Award 2022: Standardized tibio-femoral implant loads and kinematics. <i>Journal of Biomechanics</i> , 2022, 141, 111171.	2.1	10
118	Loading conditions in the spine, hip and knee during different executions of back extension exercises. <i>BMC Sports Science, Medicine and Rehabilitation</i> , 2017, 9, 10.	1.7	9
119	Rhythmic auditory stimuli modulate movement recovery in response to perturbation during locomotion. <i>Journal of Experimental Biology</i> , 2021, 224, .	1.7	9
120	Crushed bone grafts and a collagen membrane are not suitable for enhancing cartilage quality in the regeneration of osteochondral defectsâ€”An in vivo study in sheep. <i>Journal of Biomechanics</i> , 2007, 40, S64-S72.	2.1	8
121	Automatic distinction of upper body motions in the main anatomical planes. <i>Medical Engineering and Physics</i> , 2014, 36, 516-521.	1.7	8
122	Does Subthalamic Deep Brain Stimulation Impact Asymmetry and Dyscoordination of Gait in Parkinsonâ€™s Disease?. <i>Neurorehabilitation and Neural Repair</i> , 2021, 35, 1020-1029.	2.9	8
123	Muskuloskeletale Belastungen im Schafshinterlauf: Mechanische Rahmenbedingungen der Heilung. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2005, 36, 775-780.	0.9	7
124	A comparison of techniques for fixation of the quadriceps muscleâ€™tendon complex for in vitro biomechanical testing of the knee joint in sheep. <i>Medical Engineering and Physics</i> , 2009, 31, 69-75.	1.7	7
125	The influence of muscle-tendon forces on ACL loading during jump landing: a systematic review. <i>Muscles, Ligaments and Tendons Journal</i> , 2017, 7, 125.	0.3	7
126	Towards Subject-Specific Strength Training Design through Predictive Use of Musculoskeletal Models. <i>Applied Bionics and Biomechanics</i> , 2018, 2018, 1-10.	1.1	7



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127	Robustness of kinematic weighting and scaling concepts for musculoskeletal simulation. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2017, 20, 720-729.	1.6	6
128	In Vivo Elongation Patterns of the Collateral Ligaments in Healthy Knees During Functional Activities. <i>Journal of Bone and Joint Surgery - Series A</i> , 2021, 103, 1620-1627.	3.0	6
129	Data-Driven Investigation of Gait Patterns in Individuals Affected by Normal Pressure Hydrocephalus. <i>Sensors</i> , 2021, 21, 6451.	3.8	6
130	Cyclic loading moves the peak stress to the cartilage surface in a biphasic model with isotropic solid phase properties. <i>Medical Engineering and Physics</i> , 2004, 26, 247-249.	1.7	5
131	What Is the Contribution of Ia-Afference for Regulating Motor Output Variability during Standing?. <i>Frontiers in Human Neuroscience</i> , 2017, 11, 87.	2.0	5
132	Sensitivity of low-frequency axial transmission acoustics to axially and azimuthally varying cortical thickness: A phantom-based study. <i>PLoS ONE</i> , 2019, 14, e0219360.	2.5	5
133	Elongation Patterns of the Posterior Cruciate Ligament after Total Knee Arthroplasty. <i>Journal of Clinical Medicine</i> , 2020, 9, 2078.	2.4	5
134	Long-term follow-up after multilevel surgery in cerebral palsy. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2022, 142, 2131-2138.	2.4	5
135	Restoring range of motion in reduced acetabular version by increasing femoral antetorsion – What about joint load?. <i>Clinical Biomechanics</i> , 2021, 87, 105409.	1.2	5
136	Reliability of Phase Velocity Measurements of Flexural Acoustic Waves in the Human Tibia In-Vivo. <i>PLoS ONE</i> , 2016, 11, e0152417.	2.5	5
137	Towards assessing cortical bone porosity using low-frequency quantitative acoustics: A phantom-based study. <i>PLoS ONE</i> , 2017, 12, e0182617.	2.5	5
138	Dynamic Knee Joint Line Orientation Is Not Predictive of Tibio-Femoral Load Distribution During Walking. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 754715.	4.1	5
139	Turning in Circles: Understanding Manual Wheelchair Use Towards Developing User-Friendly Steering Systems. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, 831528.	4.1	5
140	Impact of the Marker Set Configuration on the Accuracy of Gait Event Detection in Healthy and Pathological Subjects. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 720699.	2.0	4
141	Age-Related Modifications to the Magnitude and Periodicity of Neuromuscular Noise. <i>PLoS ONE</i> , 2013, 8, e82791.	2.5	4
142	Uncertainty in Muscle–Tendon Parameters can Greatly Influence the Accuracy of Knee Contact Force Estimates of Musculoskeletal Models. <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 10, .	4.1	4
143	In-situ force plate calibration: 12 years™ experience with an approach for correcting the point of force application. <i>Gait and Posture</i> , 2017, 58, 98-102.	1.4	3
144	Comparison of the kinematics and kinetics of shoulder exercises performed with constant and elastic resistance. <i>BMC Sports Science, Medicine and Rehabilitation</i> , 2018, 10, 22.	1.7	3

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145	Restoration of Heelâ€œToe Gait Patterns for the Prevention of Asymmetrical Hip Internal Rotation in Patients with Unilateral Spastic Cerebral Palsy. <i>Children</i> , 2021, 8, 773.	1.5	3
146	Biomechanik des Kniegelenks. , 2011, , 19-31.		3
147	ISB clinical biomechanics award winner 2021:ÂˆTibio-femoral kinematics of natural versus replaced knees â€œ A comparison using dynamic videofluoroscopy. <i>Clinical Biomechanics</i> , 2022, 96, 105667.	1.2	3
148	Cortical Contribution to Linear, Non-linear and Frequency Components of Motor Variability Control during Standing. <i>Frontiers in Human Neuroscience</i> , 2017, 11, 548.	2.0	2
149	The â€œJournal of Functional Morphology and Kinesiologyâ€œJournal Club Series: Highlights on Recent Papers in Motor Control and Learning. <i>Journal of Functional Morphology and Kinesiology</i> , 2018, 3, 16.	2.4	2
150	The effect of increasing heel height on lower limb symmetry during the back squat in trained and novice lifters. <i>BMC Sports Science, Medicine and Rehabilitation</i> , 2020, 12, 42.	1.7	2
151	Quantification of morning stiffness to assess disease activity and treatment effects in rheumatoid arthritis. <i>Rheumatology</i> , 2021, 60, 5282-5291.	1.9	2
152	Rigid 3D Registration Algorithm for Localization of the Vertebral Centroids in 3D Deformity Models of Adolescent Idiopathic Scoliosis. <i>Computer-Aided Design and Applications</i> , 2020, 17, 1313-1325.	0.6	2
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