William R Taylor

List of Publications by Year
in descending order

174	6,370	66250	93651
papers	citations	44 h-index	72 g-index

187	187	187	6314
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Long-term follow-up after multilevel surgery in cerebral palsy. Archives of Orthopaedic and Trauma Surgery, 2022, 142, 2131-2138.	1.3	5
2	Finite element derived femoral strength is a better predictor of hip fracture risk than aBMD in the AGES Reykjavik study cohort. Bone, 2022, 154, 116219.	1.4	10
3	Can tibio-femoral kinematic and kinetic parameters reveal poor functionality and underlying deficits after total knee replacement? A systematic review. Knee, 2022, 34, 62-75.	0.8	2
4	Optimizing Backrest Geometry to Minimize Interfacial Pressure Concentrations in the Mid-to-Lumbar Region During Leg Press Resistance Training. Journal of Biomechanical Engineering, 2022, 144, .	0.6	0
5	Turning in Circles: Understanding Manual Wheelchair Use Towards Developing User-Friendly Steering Systems. Frontiers in Bioengineering and Biotechnology, 2022, 10, 831528.	2.0	5
6	ISB clinical biomechanics award winner 2021:ÂTibio-femoral kinematics of natural versus replaced knees â€“ A comparison using dynamic videofluoroscopy. Clinical Biomechanics, 2022, 96, 105667.	0.5	3
7	Personalised pose estimation from single-plane moving fluoroscope images using deep convolutional neural networks. PLoS ONE, 2022, 17, e0270596.	1.1	1
8	European Society of Biomechanics S.M. Perren Award 2022: Standardized tibio-femoral implant loads and kinematics. Journal of Biomechanics, 2022, 141, 111171.	0.9	10
9	Feedback improves compliance of pressure relief activities in wheelchair users with spinal cord injury. Spinal Cord, 2021, 59, 175-184.	0.9	13
10	Techniques for In Vivo Measurement of Ligament and Tendon Strain: A Review. Annals of Biomedical Engineering, 2021, 49, 7-28.	1.3	19
11	Technologies and Sensor Design for the Measurement of Ground Reaction Forces in Mice: A Review. Biomechanics, 2021, 1, 53-72.	0.5	0
12	Rhythmic auditory stimuli modulate movement recovery in response to perturbation during locomotion. Journal of Experimental Biology, 2021, 224, .	0.8	9
13	In Vivo Elongation Patterns of the Collateral Ligaments in Healthy Knees During Functional Activities. Journal of Bone and Joint Surgery - Series A, 2021, 103, 1620-1627.	1.4	6
14	Quantification of morning stiffness to assess disease activity and treatment effects in rheumatoid arthritis. Rheumatology, 2021, 60, 5282-5291.	0.9	2
15	Towards validation and standardization of automatic gait event identification algorithms for use in paediatric pathological populations. Gait and Posture, 2021, 86, 64-69.	0.6	20
16	Small Force Sensor to Measure the Three Components of the Ground Reaction Forces in Mice. Engineering Proceedings, 2021, 6, .	0.4	0
17	Restoring range of motion in reduced acetabular version by increasing femoral antetorsion â€“ What about joint load?. Clinical Biomechanics, 2021, 87, 105409.	0.5	5
18	Adapting Footfall Rhythmicity to Auditory Perturbations Affects Resilience of Locomotor Behavior: A Proof-of-Concept Study. Frontiers in Neuroscience, 2021, 15, 678965.	1.4	0

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19	Data-Driven Investigation of Gait Patterns in Individuals Affected by Normal Pressure Hydrocephalus. Sensors, 2021, 21, 6451.	2.1	6
20	Does Subthalamic Deep Brain Stimulation Impact Asymmetry and Dyscoordination of Gait in Parkinsonâ€™s Disease?. Neurorehabilitation and Neural Repair, 2021, 35, 1020-1029.	1.4	8
21	Restoration of Heelâ€“Toe Gait Patterns for the Prevention of Asymmetrical Hip Internal Rotation in Patients with Unilateral Spastic Cerebral Palsy. Children, 2021, 8, 773.	0.6	3
22	Impact of the Marker Set Configuration on the Accuracy of Gait Event Detection in Healthy and Pathological Subjects. Frontiers in Human Neuroscience, 2021, 15, 720699.	1.0	4
23	Dynamic Knee Joint Line Orientation Is Not Predictive of Tibio-Femoral Load Distribution During Walking. Frontiers in Bioengineering and Biotechnology, 2021, 9, 754715.	2.0	5
24	Knieendoprothetik: Biomechanik des Kniegelenks. Springer Reference Medizin, 2021, , 1-18.	0.0	0
25	Identifying Fallers Based on Functional Parameters: A Machine Learning Approach. , 2021, , .		1
26	Properties and Function of the Medial Patellofemoral Ligament: A Systematic Review. American Journal of Sports Medicine, 2020, 48, 754-766.	1.9	31
27	Revealing the optimal thresholds for movement performance: A systematic review and meta-analysis to benchmark pathological walking behaviour. Neuroscience and Biobehavioral Reviews, 2020, 108, 24-33.	2.9	24
28	Elongation Patterns of the Posterior Cruciate Ligament after Total Knee Arthroplasty. Journal of Clinical Medicine, 2020, 9, 2078.	1.0	5
29	Tibio-femoral kinematics of the healthy knee joint throughout complete cycles of gait activities. Journal of Biomechanics, 2020, 110, 109915.	0.9	22
30	The effect of increasing heel height on lower limb symmetry during the back squat in trained and novice lifters. BMC Sports Science, Medicine and Rehabilitation, 2020, 12, 42.	0.7	2
31	Differentiation between mechanically loose and fixed press-fit implants using quantitative acoustics and load self-referencing: A phantom study on shoulder prostheses in polyurethane foam. PLoS ONE, 2020, 15, e0233548.	1.1	0
32	The effect of elevating the heels on spinal kinematics and kinetics during the back squat in trained and novice weight trainers. Journal of Sports Sciences, 2020, 38, 1000-1008.	1.0	11
33	Assessing the Temporal Organization of Walking Variability: A Systematic Review and Consensus Guidelines on Detrended Fluctuation Analysis. Frontiers in Physiology, 2020, 11, 562.	1.3	27
34	Wearable Inertial Measurement Units for Assessing Gait in Real-World Environments. Frontiers in Physiology, 2020, 11, 90.	1.3	46
35	Evaluation of an intensity-based algorithm for 2D/3D registration of natural knee videofluoroscopy data. Medical Engineering and Physics, 2020, 77, 107-113.	0.8	24
36	Length-Change Patterns of the Collateral Ligaments During Functional Activities After Total Knee Arthroplasty. Annals of Biomedical Engineering, 2020, 48, 1396-1406.	1.3	16

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37	Transpositions of Intervertebral Centroids in Adolescents Suffering from Idiopathic Scoliosis Optically Diagnosed. Lecture Notes in Computational Vision and Biomechanics, 2020, , 133-141.	0.5	1
38	The Capacity of Generic Musculoskeletal Simulations to Predict Knee Joint Loading Using the CAMS-Knee Datasets. Annals of Biomedical Engineering, 2020, 48, 1430-1440.	1.3	29
39	Rigid 3D Registration Algorithm for Localization of the Vertebral Centroids in 3D Deformity Models of Adolescent Idiopathic Scoliosis. Computer-Aided Design and Applications, 2020, 17, 1313-1325.	0.4	2
40	Title is missing!. , 2020, 15, e0233548.		0
41	Title is missing!. , 2020, 15, e0233548.		0
42	Title is missing!. , 2020, 15, e0233548.		0
43	Title is missing!. , 2020, 15, e0233548.		0
44	Title is missing!. , 2020, 15, e0233548.		0
45	Title is missing!. , 2020, 15, e0233548.		0
46	Technology-Enhanced Systems in Idiopathic Scoliosis 3D Diagnosis and Screening. Lecture Notes in Networks and Systems, 2019, , 271-278.	0.5	1
47	Low back pain and its relationship with sitting behaviour among sedentary office workers. Applied Ergonomics, 2019, 81, 102894.	1.7	122
48	Kinematic Evaluation of the GMK Sphere Implant During Gait Activities: A Dynamic Videofluoroscopy Study. Journal of Orthopaedic Research, 2019, 37, 2337-2347.	1.2	53
49	Sensitivity of low-frequency axial transmission acoustics to axially and azimuthally varying cortical thickness: A phantom-based study. PLoS ONE, 2019, 14, e0219360.	1.1	5
50	Can low-frequency guided waves at the tibia paired with machine learning differentiate between healthy and osteopenic/osteoporotic subjects? A pilot study. Ultrasonics, 2019, 94, 109-116.	2.1	20
51	Tibio-Femoral Contact Force Distribution is Not the Only Factor Governing Pivot Location after Total Knee Arthroplasty. Scientific Reports, 2019, 9, 182.	1.6	10
52	A method to concatenate multiple short time series for evaluating dynamic behaviour during walking. PLoS ONE, 2019, 14, e0218594.	1.1	14
53	Does variability of footfall kinematics correlate with dynamic stability of the centre of mass during walking?. PLoS ONE, 2019, 14, e0217460.	1.1	10
54	Minimal detectable difference of the finger and wrist range of motion: comparison of goniometry and 3D motion analysis. Journal of Orthopaedic Surgery and Research, 2019, 14, 173.	0.9	49

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55	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.	0.9	17
56	Knee implant kinematics are task-dependent. Journal of the Royal Society Interface, 2019, 16, 20180678.	1.5	26
57	Elongation Patterns of the Collateral Ligaments After Total Knee Arthroplasty Are Dominated by the Knee Flexion Angle. Frontiers in Bioengineering and Biotechnology, 2019, 7, 323.	2.0	19
58	Short-term functional assessment of gait, plantarflexor strength, and tendon properties after Achilles tendon rupture. Gait and Posture, 2018, 62, 179-185.	0.6	16
59	Comparison of the kinematics and kinetics of shoulder exercises performed with constant and elastic resistance. BMC Sports Science, Medicine and Rehabilitation, 2018, 10, 22.	0.7	3
60	Evaluation of the accuracy of musculoskeletal simulation during squats by means of instrumented knee prostheses. Medical Engineering and Physics, 2018, 61, 95-99.	0.8	22
61	Soft Electronic Strain Sensor with Chipless Wireless Readout: Toward Realâ€Time Monitoring of Bladder Volume. Advanced Materials Technologies, 2018, 3, 1800031.	3.0	32
62	Towards Subject-Specific Strength Training Design through Predictive Use of Musculoskeletal Models. Applied Bionics and Biomechanics, 2018, 2018, 1-10.	0.5	7
63	The â€œJournal of Functional Morphology and Kinesiologyâ€•Journal Club Series: Highlights on Recent Papers in Motor Control and Learning. Journal of Functional Morphology and Kinesiology, 2018, 3, 16.	1.1	2
64	How to squat? Effects of various stance widths, foot placement angles and level of experience on knee, hip and trunk motion and loading. BMC Sports Science, Medicine and Rehabilitation, 2018, 10, 14.	0.7	47
65	Influence of the moving fluoroscope on gait patterns. PLoS ONE, 2018, 13, e0200608.	1.1	13
66	Robustness of kinematic weighting and scaling concepts for musculoskeletal simulation. Computer Methods in Biomechanics and Biomedical Engineering, 2017, 20, 720-729.	0.9	6
67	Spinal kinematics during gait in healthy individuals across different age groups. Human Movement Science, 2017, 54, 73-81.	0.6	39
68	Loading conditions in the spine, hip and knee during different executions of back extension exercises. BMC Sports Science, Medicine and Rehabilitation, 2017, 9, 10.	0.7	9
69	High-heeled walking decreases lumbar lordosis. Gait and Posture, 2017, 55, 12-14.	0.6	17
70	A comprehensive assessment of the musculoskeletal system: The CAMS-Knee data set. Journal of Biomechanics, 2017, 65, 32-39.	0.9	82
71	Risk Factors for Knee Injury in Golf: A Systematic Review. Sports Medicine, 2017, 47, 2621-2639.	3.1	17
72	In-situ force plate calibration: 12 yearsâ€™ experience with an approach for correcting the point of force application. Gait and Posture, 2017, 58, 98-102.	0.6	3

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73	Achieving ecological validity in mobility assessment: Validating a wearable sensor technology for comprehensive gait assessment. , 2017, , .		1
74	What Is the Contribution of Ia-Afference for Regulating Motor Output Variability during Standing?. Frontiers in Human Neuroscience, 2017, 11, 87.	1.0	5
75	Cortical Contribution to Linear, Non-linear and Frequency Components of Motor Variability Control during Standing. Frontiers in Human Neuroscience, 2017, 11, 548.	1.0	2
76	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.	0.7	14
77	The influence of muscle-tendon forces on ACL loading during jump landing: a systematic review. Muscles, Ligaments and Tendons Journal, 2017, 7, 125.	0.1	7
78	Towards assessing cortical bone porosity using low-frequency quantitative acoustics: A phantom-based study. PLoS ONE, 2017, 12, e0182617.	1.1	5
79	A moving fluoroscope to capture tibiofemoral kinematics during complete cycles of free level and downhill walking as well as stair descent. PLoS ONE, 2017, 12, e0185952.	1.1	39
80	Application of Machine Learning Approaches for Classifying Sitting Posture Based on Force and Acceleration Sensors. BioMed Research International, 2016, 2016, 1-9.	0.9	56
81	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. Frontiers in Human Neuroscience, 2016, 10, 319.	1.0	37
82	The Effects of Selective Dorsal Rhizotomy on Balance and Symmetry of Gait in Children with Cerebral Palsy. PLoS ONE, 2016, 11, e0152930.	1.1	18
83	The Restoration of Passive Rotational Tibio-Femoral Laxity after Anterior Cruciate Ligament Reconstruction. PLoS ONE, 2016, 11, e0159600.	1.1	19
84	Revealing the quality of movement: A meta-analysis review to quantify the thresholds to pathological variability during standing and walking. Neuroscience and Biobehavioral Reviews, 2016, 68, 111-119.	2.9	62
85	Occupational sitting behaviour and its relationship with back pain â€“ A pilot study. Applied Ergonomics, 2016, 56, 84-91.	1.7	41
86	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.	0.6	14
87	Kinematics and Kinetics of Squats, Drop Jumps and Imitation Jumps of Ski Jumpers. Journal of Strength and Conditioning Research, 2016, 30, 643-652.	1.0	11
88	Quantifying spinal gait kinematics using an enhanced optical motion capture approach in adolescent idiopathic scoliosis. Gait and Posture, 2016, 44, 231-237.	0.6	51
89	Seat pan and backrest pressure distribution while sitting in office chairs. Applied Ergonomics, 2016, 53, 1-9.	1.7	47
90	Reliability of Phase Velocity Measurements of Flexural Acoustic Waves in the Human Tibia In-Vivo. PLoS ONE, 2016, 11, e0152417.	1.1	5

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91	Loading Patterns of the Posterior Cruciate Ligament in the Healthy Knee: A Systematic Review. PLoS ONE, 2016, 11, e0167106.	1.1	29
92	Increased unilateral tendon stiffness and its effect on gait 2â€“6 years after <scp>A</scp>chilles tendon rupture. Scandinavian Journal of Medicine and Science in Sports, 2015, 25, 860-867.	1.3	49
93	A Fast Testing Method to Objectively Quantify the Stiffness of Stability Boots. Applied Bionics and Biomechanics, 2015, 2015, 1-6.	0.5	1
94	Review of Modelling Techniques forIn VivoMuscle Force Estimation in the Lower Extremities during Strength Training. Computational and Mathematical Methods in Medicine, 2015, 2015, 1-12.	0.7	23
95	Are pressure measurements effective in the assessment of office chair comfort/discomfort? A review. Applied Ergonomics, 2015, 48, 273-282.	1.7	70
96	Towards the assessment of local dynamic stability of level-grounded walking in an older population. Medical Engineering and Physics, 2015, 37, 1152-1155.	0.8	32
97	Using Skin Markers for Spinal Curvature Quantification in Main Thoracic Adolescent Idiopathic Scoliosis: An Explorative Radiographic Study. PLoS ONE, 2015, 10, e0135689.	1.1	51
98	Soft Tissue Artefacts of the Human Back: Comparison of the Sagittal Curvature of the Spine Measured Using Skin Markers and an Open Upright MRI. PLoS ONE, 2014, 9, e95426.	1.1	74
99	Joint Angles of the Ankle, Knee, and Hip and Loading Conditions During Split Squats. Journal of Applied Biomechanics, 2014, 30, 373-380.	0.3	20
100	Identification of functional parameters for the classification of older female fallers and prediction of â€˜first-timeâ€™ fallers. Journal of the Royal Society Interface, 2014, 11, 20140353.	1.5	46
101	Towards clinical application: Repetitive sensor position re-calibration for improved reliability of gait parameters. Gait and Posture, 2014, 39, 1146-1148.	0.6	64
102	Towards understanding knee joint laxity: Errors in non-invasive assessment of joint rotation can be corrected. Medical Engineering and Physics, 2014, 36, 889-895.	0.8	11
103	European Society of Biomechanics S.M. Perren Award 2014: Safety factor of the proximal femur during gait: A population-based finite element study. Journal of Biomechanics, 2014, 47, 3433-3440.	0.9	23
104	Modulation of the Relationship Between External Knee Adduction Moments and Medial Joint Contact Forces Across Subjects and Activities. Arthritis and Rheumatology, 2014, 66, 1218-1227.	2.9	73
105	Insight from direct in vivo measurements on the force distribution across the human knee in flexion: can it be modified, and can the internal loads be predicted from external measurements?. Osteoarthritis and Cartilage, 2014, 22, S100.	0.6	1
106	Is gait variability reliable? An assessment of spatio-temporal parameters of gait variability during continuous overground walking. Gait and Posture, 2014, 39, 615-617.	0.6	105
107	Automatic distinction of upper body motions in the main anatomical planes. Medical Engineering and Physics, 2014, 36, 516-521.	0.8	8
108	Efficacy of the Functional Movement Screen. Journal of Strength and Conditioning Research, 2014, 28, 3571-3584.	1.0	104

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109	Terminally Differentiated CD8 ⁺ T Cells Negatively Affect Bone Regeneration in Humans. Science Translational Medicine, 2013, 5, 177ra36.	5.8	250
110	Kinetic and kinematic differences between deadlifts and goodmornings. The Sports Medicine, Arthroscopy, Rehabilitationrapy and Technology, 2013, 5, 27.	1.0	14
111	Lumbar spinal loads vary with body height and weight. Medical Engineering and Physics, 2013, 35, 969-977.	0.8	81
112	Anterior Cruciate Ligamentâ€"Deficient Patients With Passive Knee Joint Laxity Have a Decreased Range of Anterior-Posterior Motion During Active Movements. American Journal of Sports Medicine, 2013, 41, 1051-1057.	1.9	46
113	In VivoSpinal Posture during Upright and Reclined Sitting in an Office Chair. BioMed Research International, 2013, 2013, 1-5.	0.9	18
114	Temporal but Not Spatial Variability during Gait Is Reduced after Selective Dorsal Rhizotomy in Children with Cerebral Palsy. PLoS ONE, 2013, 8, e69500.	1.1	12
115	Age-Related Modifications to the Magnitude and Periodicity of Neuromuscular Noise. PLoS ONE, 2013, 8, e82791.	1.1	4
116	The difference between stretching and splitting muscle trauma during THA seems not to play a dominant role in influencing periprosthetic BMD changes. Clinical Biomechanics, 2012, 27, 813-818.	0.5	11
117	The spectral content of postural sway during quiet stance: Influences of age, vision and somatosensory inputs. Journal of Electromyography and Kinesiology, 2012, 22, 131-136.	0.7	64
118	An enhanced and validated generic thoraco-lumbar spine model for prediction of muscle forces. Medical Engineering and Physics, 2012, 34, 709-716.	0.8	94
119	Absolute and functional iron deficiency in professional athletes during training and recovery. International Journal of Cardiology, 2012, 156, 186-191.	0.8	68
120	Effective marker placement for functional identification of the centre of rotation at the hip. Gait and Posture, 2012, 36, 482-486.	0.6	33
121	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.	0.8	13
122	Comparative evaluation of a novel measurement tool to assess lumbar spine posture and range of motion. European Spine Journal, 2012, 21, 2170-2180.	1.0	69
123	Generic Rules of Mechano-Regulation Combined with Subject Specific Loading Conditions Can Explain Bone Adaptation after THA. PLoS ONE, 2012, 7, e36231.	1.1	27
124	Extreme Levels of Noise Constitute a Key Neuromuscular Deficit in the Elderly. PLoS ONE, 2012, 7, e48449.	1.1	28
125	Velocity of Lordosis Angle during Spinal Flexion and Extension. PLoS ONE, 2012, 7, e50135.	1.1	31
126	The direct lateral approach: impact on gait patterns, foot progression angle and pain in comparison with a minimally invasive anterolateral approach. Archives of Orthopaedic and Trauma Surgery, 2012, 132, 725-731.	1.3	27

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127	Patellofemoral joint contact forces during activities with high knee flexion. Journal of Orthopaedic Research, 2012, 30, 408-415.	1.2	77
128	Kinematic measures for assessing gait stability in elderly individuals: a systematic review. Journal of the Royal Society Interface, 2011, 8, 1682-1698.	1.5	310
129	Collateral ligament length change patterns after joint line elevation may not explain midflexion instability following TKA. Medical Engineering and Physics, 2011, 33, 1303-1308.	0.8	25
130	Influence of prosthesis design and implantation technique on implant stresses after cementless revision THR. Journal of Orthopaedic Surgery and Research, 2011, 6, 20.	0.9	16
131	The medialâ€“lateral force distribution in the ovine stifle joint during walking. Journal of Orthopaedic Research, 2011, 29, 567-571.	1.2	23
132	The weighted optimal common shape technique improves identification of the hip joint center of rotation in vivo. Journal of Orthopaedic Research, 2011, 29, 1470-1475.	1.2	43
133	The SCoRE residual: A quality index to assess the accuracy of joint estimations. Journal of Biomechanics, 2011, 44, 1400-1404.	0.9	52
134	Biomechanik des Kniegelenks. , 2011, , 19-31.		3
135	Joint line elevation in revision TKA leads to increased patellofemoral contact forces. Journal of Orthopaedic Research, 2010, 28, 1-5.	1.2	88
136	Effect of fatigue on force fluctuations in knee extensors in young adults. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 2783-2798.	1.6	25
137	A novel system for the dynamic assessment of back shape. Medical Engineering and Physics, 2010, 32, 1080-1083.	0.8	44
138	Regulation of the patellofemoral contact area: An essential mechanism in patellofemoral joint mechanics?. Journal of Biomechanics, 2010, 43, 3237-3239.	0.9	12
139	Frontal plane alignment: An imageless method to predict the mechanical femoralâ€“tibial angle (mFTA) based on functional determination of joint centres and axes. Gait and Posture, 2010, 31, 204-208.	0.6	14
140	Repeatability and reproducibility of OSSCA, a functional approach for assessing the kinematics of the lower limb. Gait and Posture, 2010, 32, 231-236.	0.6	72
141	The Expression of Proinflammatory Cytokines and Matrix Metalloproteinases in the Synovial Membranes of Patients With Osteoarthritis Compared With Traumatic Knee Disorders. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2010, 26, 1096-1104.	1.3	52
142	Modulation of Matrix Metalloprotease-2 Levels by Mechanical Loading of Three-Dimensional Mesenchymal Stem Cell Constructs: Impact onIn VitroTube Formation. Tissue Engineering - Part A, 2010, 16, 3139-3148.	1.6	27
143	The Influence of Recovery and Training Phases on Body Composition, Peripheral Vascular Function and Immune System of Professional Soccer Players. PLoS ONE, 2009, 4, e4910.	1.1	39
144	A comparison of techniques for fixation of the quadriceps muscleâ€“tendon complex for in vitro biomechanical testing of the knee joint in sheep. Medical Engineering and Physics, 2009, 31, 69-75.	0.8	7

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145	Stair climbing results in more challenging patellofemoral contact mechanics and kinematics than walking at early knee flexion under physiological-like quadriceps loading. Journal of Biomechanics, 2009, 42, 2590-2596.	0.9	37
146	Reduction of the influence of skin marker artefact using the optimal common shape technique. Gait and Posture, 2009, 30, S31-S32.	0.6	1
147	Biomechanical, Microvascular, and Cellular Factors Promote Muscle and Bone Regeneration. Exercise and Sport Sciences Reviews, 2008, 36, 64-70.	1.6	22
148	Influence of changes in stem positioning on femoral loading after THR using a short-stemmed hip implant. Clinical Biomechanics, 2007, 22, 431-439.	0.5	57
149	A survey of formal methods for determining functional joint axes. Journal of Biomechanics, 2007, 40, 2150-2157.	0.9	225
150	Physiologically based boundary conditions in finite element modelling. Journal of Biomechanics, 2007, 40, 2318-2323.	0.9	173
151	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. Journal of Biomechanics, 2007, 40, S64-S72.	0.9	8
152	A new model to predict in vivo human knee kinematics under physiological-like muscle activation. Journal of Biomechanics, 2007, 40, S45-S53.	0.9	18
153	Interaction of mechanics and biology in knee joint restoration and regeneration. Journal of Biomechanics, 2007, 40, S1-S3.	0.9	0
154	Mechanical conditions in the initial phase of bone healing. Clinical Biomechanics, 2006, 21, 646-655.	0.5	90
155	Tibio-femoral joint contact forces in sheep. Journal of Biomechanics, 2006, 39, 791-798.	0.9	109
156	A survey of formal methods for determining the centre of rotation of ball joints. Journal of Biomechanics, 2006, 39, 2798-2809.	0.9	342
157	On the influence of soft tissue coverage in the determination of bone kinematics using skin markers. Journal of Orthopaedic Research, 2005, 23, 726-734.	1.2	146
158	Muskuloskeletale Belastungen im Schafshinterlauf: Mechanische Rahmenbedingungen der Heilung. Materialwissenschaft Und Werkstofftechnik, 2005, 36, 775-780.	0.5	7
159	Surgical Approach Influences Periprosthetic Femoral Bone Density. Clinical Orthopaedics and Related Research, 2005, 432, 153-159.	0.7	26
160	Gait evaluation: A tool to monitor bone healing?. Clinical Biomechanics, 2005, 20, 883-891.	0.5	45
161	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.	1.0	13
162	Cyclic loading moves the peak stress to the cartilage surface in a biphasic model with isotropic solid phase properties. Medical Engineering and Physics, 2004, 26, 247-249.	0.8	5

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163	Tibio-femoral loading during human gait and stair climbing. Journal of Orthopaedic Research, 2004, 22, 625-632.	1.2	311
164	Comparison of unreamed nailing and external fixation of tibial diastasesâ€"mechanical conditions during healing and biological outcome. Journal of Orthopaedic Research, 2004, 22, 1072-1078.	1.2	65
165	Bone Remodelling of a Proximal Femur with the Thrust Plate Prosthesis: AnIn VitroCase. Computer Methods in Biomechanics and Biomedical Engineering, 2004, 7, 131-137.	0.9	20
166	Distribution of bone mineral density with age and gender in the proximal tibia. Clinical Biomechanics, 2004, 19, 370-376.	0.5	26
167	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.	1.4	95
168	Does partial weight bearing unload a healing bone in external ring fixation?. Langenbeck's Archives of Surgery, 2003, 388, 298-304.	0.8	27
169	The influence of alignment on the musculo-skeletal loading conditions at the knee. Langenbeck's Archives of Surgery, 2003, 388, 291-297.	0.8	54
170	THA loading arising from increased femoral anteversion and offset may lead to critical cement stresses. Journal of Orthopaedic Research, 2003, 21, 767-774.	1.2	68
171	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.	1.0	13
172	Determination of orthotropic bone elastic constants using FEA and modal analysis. Journal of Biomechanics, 2002, 35, 767-773.	0.9	204
173	Finite element biphasic indentation of cartilage: A comparison of experimental indenter and physiological contact geometries. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2001, 215, 487-496.	1.0	30
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