Maury Hull

List of Publications by Year
in descending order

185	7,909	50244	56687
papers	citations	46 h-index	83 g-index

187	187	187	3339
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The posterolateral upslope of a low-conforming insert blocks the medial pivot during a deep knee bend in TKA: a comparative analysis of two implants with different insert conformities. Knee Surgery, Sports Traumatology, Arthroscopy, 2023, 31, 3627-3636.	2.3	8
2	Adjusting Insert Thickness and Tibial Slope Do Not Correct Internal Tibial Rotation Loss Caused by PCL Resection: In Vitro Study of a Medial Constraint TKA Implanted with Unrestricted Calipered Kinematic Alignment. Journal of Knee Surgery, 2023, 36, 507-514.	0.9	4
3	More passive internal tibial rotation with posterior cruciate ligament retention than with excision in a medial pivot TKA implanted with unrestricted caliper verified kinematic alignment. Knee Surgery, Sports Traumatology, Arthroscopy, 2023, 31, 852-860.	2.3	10
4	Posterior rim loading of a low-conforming tibial insert in unrestricted kinematic alignment is caused by rotational alignment of an asymmetric baseplate designed for mechanical alignment. Knee Surgery, Sports Traumatology, Arthroscopy, 2023, 31, 3051-3060.	2.3	2
5	Which Asymmetric Tibial Component Is Optimally Designed for Calipered Kinematically Aligned Total Knee Arthroplasty?. Journal of Knee Surgery, 2022, 35, 1610-1618.	0.9	4
6	Strategies for Improving the Prosthetic Trochlea Design Based on Differences in Trochlea Morphology Between Femoral Components Set in Kinematic and Mechanical Alignment and the Native Knee. , 2022, , 64-68.		0
7	Calipered Kinematically Aligned Total Knee Arthroplasty Closely Restores the Tibial Compartment Forces of the Native Knee. , 2022, , 73-77.		0
8	Strategies for Improving Implant Design Based on Differences in Tibiofemoral Kinematics of a Low-Conforming Total Knee Arthroplasty Implanted With Calipered Kinematic Alignment and the Native Knee. , 2022, , 60-63.		0
9	Differences in Trochlear Morphology from Native Using a Femoral Component Interfaced with an Anatomical Patellar Prosthesis in Kinematic Alignment and Mechanical Alignment. Journal of Knee Surgery, 2022, 35, 625-633.	0.9	7
10	Previously Unrecognized Source of Error in the Change in Maximum Total Point Motion to Determine Continuous Migration of Unstable Tibial Baseplates. Journal of Biomechanical Engineering, 2022, 144, .	0.6	1
11	Repeatability, reproducibility, and agreement of three methods for finding the mechanical axis of the human tibia. Computer Methods in Biomechanics and Biomedical Engineering, 2022, 25, 1301-1309.	0.9	1
12	CAN A 2D PLANAR MODEL MORE ACCURATELY DETERMINE LOCATIONS OF CONTACT DEVELOPED BY THE FEMORAL CONDYLES ON THE TIBIAL INSERT IN TOTAL KNEE ARTHROPLASTY THAN THE PENETRATION METHOD?. Journal of Biomechanics, 2022, 134, 110983.	0.9	1
13	Optimized Joint Coordinate System Achieves Clinically Meaningful Kinematics of the Tibiofemoral Joint as Compared to the International Society of Biomechanics (ISB) Recommendation. Journal of Biomechanical Engineering, 2022, , .	0.6	0
14	Excellent and Good Results Treating Stiffness with Early and Late Manipulation after Unrestricted Caliper-Verified Kinematically Aligned TKA. Journal of Personalized Medicine, 2022, 12, 304.	1.1	0
15	Agreement Between Two Methods for Computing the Anteriorâ€“Posterior Positions of Native Femoral Condyles Using Three-Dimensional Bone Models With and Without Articular Cartilage and Smoothing. Journal of Biomechanical Engineering, 2022, 144, .	0.6	0
16	Errors in using fixed flexion facet centers to determine tibiofemoral kinematics increase fourfold for multi-radius femoral component designs with early versus late decreases in the radius of curvature. Knee, 2022, 35, 183-191.	0.8	2
17	Negligible effect of surgeon experience on the accuracy and time to perform unrestricted caliper verified kinematically aligned TKA with manual instruments. Knee Surgery, Sports Traumatology, Arthroscopy, 2022, 30, 2966-2974.	2.3	15
18	Measurement Error Versus Repeated Measurements: A Guide Describing Two Methods for Computing Bias and Precision of Migration Measurements From Double Examinations Using Radiostereometric Analysis. Journal of Biomechanical Engineering, 2022, 144, .	0.6	6

#	Article	IF	Citations
19	A Surgeon That Switched to Unrestricted Kinematic Alignment with Manual Instruments Has a Short Learning Curve and Comparable Resection Accuracy and Outcomes to Those of an Experienced Surgeon. Journal of Personalized Medicine, 2022, 12, 1152.	1.1	10
20	A cruciate-retaining implant can treat both knees of most windswept deformities when performed with calipered kinematically aligned TKA. Knee Surgery, Sports Traumatology, Arthroscopy, 2021, 29, 437-445.	2.3	22
21	Tibial forces are more useful than varusâ€valgus laxities for identifying and correcting overstuffing in kinematically aligned total knee arthroplasty. Journal of Orthopaedic Research, 2021, 39, 1271-1280.	1.2	11
22	Revision of a Medial UKA to a Kinematic Aligned TKA: Comparison of Operative Complexity, Postoperative Alignment, and Outcome Scores to a Primary TKA. Journal of Knee Surgery, 2021, 34, 406-414.	0.9	9
23	Outcomes in Patients with a Calipered Kinematically Aligned TKA That Already Had a Contralateral Mechanically Aligned TKA. Journal of Knee Surgery, 2021, 34, 087-093.	0.9	26
24	Propagation of registration errors into the change in maximum total point motion for determining stability of tibial baseplates. Computer Methods in Biomechanics and Biomedical Engineering, 2021, 24, 1019-1025.	0.9	2
25	Circle-based model to estimate error in using the lowest points to indicate locations of contact developed by the femoral condyles on the tibial insert in total knee arthroplasty. Journal of Biomechanics, 2021, 120, 110365.	0.9	3
26	Restoring the Patientâ€™s Pre-Arthritic Posterior Slope Is the Correct Target for Maximizing Internal Tibial Rotation When Implanting a PCL Retaining TKA with Calipered Kinematic Alignment. Journal of Personalized Medicine, 2021, 11, 516.	1.1	10
27	Maximum Total Point Motion of Five Points Versus All Points in Assessing Tibial Baseplate Stability. Journal of Biomechanical Engineering, 2021, 143, .	0.6	7
28	An insert with less than spherical medial conformity causes a loss of passive internal rotation after calipered kinematically aligned TKA. Archives of Orthopaedic and Trauma Surgery, 2021, 141, 2287-2294.	1.3	5
29	Propagation of registration error into maximum total point motion to analyze tibial baseplate stability at six months using marker-based and model-based RSA. Journal of Biomechanics, 2021, 127, 110651.	0.9	5
30	Morphological errors in 3D bone models of the distal femur and proximal tibia generated from magnetic resonance imaging and computed tomography determined using two registration methods. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2020, 8, 31-39.	1.3	3
31	Kinematically aligned TKA restores physiological patellofemoral biomechanics in the sagittal plane during a deep knee bend. Knee Surgery, Sports Traumatology, Arthroscopy, 2020, 28, 1497-1507.	2.3	10
32	Small differences in tibial contact locations following kinematically aligned TKA from the native contralateral knee. Knee Surgery, Sports Traumatology, Arthroscopy, 2020, 28, 2893-2904.	2.3	21
33	Deviations in femoral joint lines using calipered kinematically aligned TKA from virtually planned joint lines are small and do not affect clinical outcomes. Knee Surgery, Sports Traumatology, Arthroscopy, 2020, 28, 3118-3127.	2.3	26
34	A Best-Fit of an Anatomic Tibial Baseplate Closely Parallels the Flexion-Extension Plane and Covers a High Percentage of the Proximal Tibia. Journal of Knee Surgery, 2020, 34, 1486-1494.	0.9	12
35	Errors in femoral anteversion, femoral offset, and vertical offset followingrobotâ€assistedtotal hip arthroplasty. International Journal of Medical Robotics and Computer Assisted Surgery, 2020, 16, e2104.	1.2	5
36	Coordinate system requirements to determine motions of the tibiofemoral joint free from kinematic crosstalk errors. Journal of Biomechanics, 2020, 109, 109928.	0.9	10

#	Article	IF	Citations
37	Reorienting the tibial baseplate improves the registration accuracy of model-based radiostereometric analysis. Journal of Biomechanics, 2020, 113, 110078.	0.9	9
38	Kinematically Aligned Total Knee Arthroplasty Using Calipered Measurements, Manual Instruments, and Verification Checks. , 2020, , 279-300.		7
39	Repeatability, reproducibility, and agreement of three computational methods to approximate the functional flexion-extension axis of the tibiofemoral joint using 3D bone models of the femur. Computer Methods in Biomechanics and Biomedical Engineering, 2019, 22, 1144-1152.	0.9	4
40	Is There a Force Target That Predicts Early Patient-reported Outcomes After Kinematically Aligned TKA?. Clinical Orthopaedics and Related Research, 2019, 477, 1200-1207.	0.7	32
41	Does the condylar lift-off method or the separation method better detect loss of contact between tibial and femoral implants based on analysis of single-plane radiographs following total knee arthroplasty?. Journal of Biomechanics, 2019, 86, 40-47.	0.9	0
42	A Total Knee Arthroplasty Is Stiffer When the Intraoperative Tibial Force Is Greater than the Native Knee. Journal of Knee Surgery, 2019, 32, 1008-1014.	0.9	22
43	Kinematic alignment more closely restores the groove location and the sulcus angle of the native trochlea than mechanical alignment: implications for prosthetic design. Knee Surgery, Sports Traumatology, Arthroscopy, 2019, 27, 1504-1513.	2.3	41
44	Analysis of differences in laxities and neutral positions from native after kinematically aligned TKA using cruciate retaining implants. Journal of Orthopaedic Research, 2019, 37, 358-369.	1.2	30
45	Internalâ€“external malalignment of the femoral component in kinematically aligned total knee arthroplasty increases tibial force imbalance but does not change laxities of the tibiofemoral joint. Knee Surgery, Sports Traumatology, Arthroscopy, 2018, 26, 1618-1628.	2.3	17
46	Increases in tibial force imbalance but not changes in tibiofemoral laxities are caused by varusâ€“valgus malalignment of the femoral component in kinematically aligned TKA. Knee Surgery, Sports Traumatology, Arthroscopy, 2018, 26, 3238-3248.	2.3	16
47	Does Calipered Kinematically Aligned TKA Restore Native Left to Right Symmetry of the Lower Limb and Improve Function?. Journal of Arthroplasty, 2018, 33, 398-406.	1.5	79
48	Kinematically aligned total knee arthroplasty limits high tibial forces, differences in tibial forces between compartments, and abnormal tibial contact kinematics during passive flexion. Knee Surgery, Sports Traumatology, Arthroscopy, 2018, 26, 1589-1601.	2.3	44
49	Does alignment of the limb and tibial width determine relative narrowing between compartments when planning mechanically aligned TKA?. Archives of Orthopaedic and Trauma Surgery, 2018, 138, 91-97.	1.3	13
50	Tibial Contact Force and Contact Location Errors of the VERASENSE. Journal of Biomechanical Engineering, 2018, 140, .	0.6	11
51	Implant Survival and Function Ten Years After Kinematically Aligned Total Knee Arthroplasty. Journal of Arthroplasty, 2018, 33, 3678-3684.	1.5	174
52	Changes in the rotational axes of the tibiofemoral joint caused by resection of the anterior cruciate ligament. Journal of Orthopaedic Research, 2017, 35, 886-893.	1.2	3
53	Characterization and Correction of Errors in Computing Contact Location Between Curved Articular Surfaces: Application to Total Knee Arthroplasty. Journal of Biomechanical Engineering, 2017, 139, .	0.6	3
54	An Improved Tibial Force Sensor to Compute Contact Forces and Contact Locations In Vitro After Total Knee Arthroplasty. Journal of Biomechanical Engineering, 2017, 139, .	0.6	15

#	Article	IF	Citations
55	Propagation of errors in two methods for determining tibial contact locations using single-plane fluoroscopy following total knee arthroplasty. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2017, , 1-8.	1.3	0
56	What mechanisms are associated with tibial component failure after kinematically-aligned total knee arthroplasty?. International Orthopaedics, 2017, 41, 1561-1569.	0.9	60
57	Do varus or valgus outliers have higher forces in the medial or lateral compartments than those which are in-range after a kinematically aligned total knee arthroplasty?. Bone and Joint Journal, 2017, 99-B, 1319-1328.	1.9	68
58	Errors in Calculating Anteriorâ€“Posterior Tibial Contact Locations in Total Knee Arthroplasty Using Three-Dimensional Model to Two-Dimensional Image Registration in Radiographs: An In Vitro Study of Two Methods. Journal of Biomechanical Engineering, 2017, 139, .	0.6	8
59	What are the six degree-of-freedom errors of a robotically-machined femoral cavity in total hip arthroplasty and are they clinically important? An in-vitro study. Medical Engineering and Physics, 2017, 48, 120-130.	0.8	2
60	Anterior laxity and patient-reported outcomes 7Âyears after ACL reconstruction with a fresh-frozen tibialis allograft. Knee Surgery, Sports Traumatology, Arthroscopy, 2017, 25, 1500-1509.	2.3	3
61	Simulation of total knee arthroplasty in 5Â° or 7Â° valgus: A study of gap imbalances and changes in limb and knee alignments from native. Journal of Orthopaedic Research, 2017, 35, 2031-2039.	1.2	22
62	What clinical characteristics and radiographic parameters are associated with patellofemoral instability after kinematically aligned total knee arthroplasty?. International Orthopaedics, 2017, 41, 283-291.	0.9	68
63	Accuracy evaluation of a lower-cost and four higher-cost laser scanners. Journal of Biomechanics, 2016, 49, 127-131.	0.9	18
64	Does Kinematic Alignment and Flexion of a Femoral Component Designed for Mechanical Alignment Reduce the Proximal and Lateral Reach of the Trochlea?. Journal of Arthroplasty, 2016, 31, 1808-1813.	1.5	41
65	What are the bias, imprecision, and limits of agreement for finding the flexionâ€“extension plane of the knee with five tibial reference lines?. Knee, 2016, 23, 406-411.	0.8	16
66	Does Malrotation of the Tibial and Femoral Components Compromise Function in Kinematically Aligned Total Knee Arthroplasty?. Orthopedic Clinics of North America, 2016, 47, 41-50.	0.5	67
67	The limits of passive motion are variable between and unrelated within normal tibiofemoral joints. Journal of Orthopaedic Research, 2015, 33, 1594-1602.	1.2	29
68	Does varus alignment adversely affect implant survival and function six years after kinematically aligned total knee arthroplasty?. International Orthopaedics, 2015, 39, 2117-2124.	0.9	156
69	Native Knee Laxities at 0Â°, 45Â°, and 90Â° of Flexion and Their Relationship to the Goal of the Gap-Balancing Alignment Method of Total Knee Arthroplasty. Journal of Bone and Joint Surgery - Series A, 2015, 97, 1678-1684.	1.4	127
70	Design, Calibration and Validation of a Novel 3D Printed Instrumented Spatial Linkage that Measures Changes in the Rotational Axes of the Tibiofemoral Joint. Journal of Biomechanical Engineering, 2014, 136, 011003.	0.6	2
71	Femoral bone and cartilage wear is predictable at 0Â° and 90Â° in the osteoarthritic knee treated with total knee arthroplasty. Knee Surgery, Sports Traumatology, Arthroscopy, 2014, 22, 2975-2981.	2.3	96
72	How Frequently Do Four Methods for Mechanically Aligning a Total Knee Arthroplasty Cause Collateral Ligament Imbalance and Change Alignment from Normal in White Patients?. Journal of Bone and Joint Surgery - Series A, 2014, 96, e101.	1.4	95

#	Article	IF	Citations
73	Are undesirable contact kinematics minimized after kinematically aligned total knee arthroplasty? An intersurgeon analysis of consecutive patients. Knee Surgery, Sports Traumatology, Arthroscopy, 2013, 21, 2281-2287.	2.3	78
74	Variability of the location of the tibial tubercle affects the rotational alignment of the tibial component in kinematically aligned total knee arthroplasty. Knee Surgery, Sports Traumatology, Arthroscopy, 2013, 21, 2288-2295.	2.3	63
75	Does A Kinematically Aligned Total Knee Arthroplasty Restore Function Without Failure Regardless of Alignment Category?. Clinical Orthopaedics and Related Research, 2013, 471, 1000-1007.	0.7	358
76	Accurate alignment and high function after kinematically aligned TKA performed with generic instruments. Knee Surgery, Sports Traumatology, Arthroscopy, 2013, 21, 2271-2280.	2.3	256
77	Optimized Design of an Instrumented Spatial Linkage that Minimizes Errors in Locating the Rotational Axes of the Tibiofemoral Joint: A Computational Analysis. Journal of Biomechanical Engineering, 2013, 135, 31003.	0.6	5
78	How Frequent Is Rotational Mismatch Within 0Â°Â±10Â° in Kinematically Aligned Total Knee Arthroplasty?. Orthopedics, 2013, 36, e1515-20.	0.5	35
79	Kinematic Alignment in Total Knee Arthroplasty. , 2012, , 1255-1268.		35
80	Validation of a New Method for Finding the Rotational Axes of the Knee Using Both Marker-Based Roentgen Stereophotogrammetric Analysis and 3D Video-Based Motion Analysis for Kinematic Measurements. Journal of Biomechanical Engineering, 2011, 133, 051003.	0.6	6
81	Anterior Laxity, Slippage, and Recovery of Function in the First Year After Tibialis Allograft Anterior Cruciate Ligament Reconstruction. American Journal of Sports Medicine, 2011, 39, 78-88.	1.9	25
82	Longitudinal Shapes of the Tibia and Femur are Unrelated and Variable. Clinical Orthopaedics and Related Research, 2010, 468, 1142-1148.	0.7	48
83	An In Vivo Study of the Effect of Distal Femoral Resection on Passive Knee Extension. Journal of Arthroplasty, 2010, 25, 1137-1142.	1.5	18
84	Assessment of the Radii of the Medial and Lateral Femoral Condyles in Varus and Valgus Knees with Osteoarthritis. Journal of Bone and Joint Surgery - Series A, 2010, 92, 98-104.	1.4	111
85	Does Graft Construct Lengthening at the Fixations Cause an Increase in Anterior Laxity Following Anterior Cruciate Ligament Reconstruction in vivo?. Journal of Biomechanical Engineering, 2010, 132, 081001.	0.6	12
86	Quasi-Steady-State Displacement Response of Whole Human Cadaveric Knees in a MRI Scanner. Journal of Biomechanical Engineering, 2009, 131, 081004.	0.6	11
87	In situ deformation of cartilage in cyclically loaded tibiofemoral joints by displacement-encoded MRI. Osteoarthritis and Cartilage, 2009, 17, 1461-1468.	0.6	34
88	Management of a Patient with an Anterior Cruciate Ligament Rupture. Operative Techniques in Sports Medicine, 2009, 17, 39-46.	0.2	2
89	Compressive moduli of the human medial meniscus in the axial and radial directions at equilibrium and at a physiological strain rate. Journal of Orthopaedic Research, 2008, 26, 951-956.	1.2	165
90	Roentgen Stereophotogrammetric Analysis Methods for Determining Ten Causes of Lengthening of a Soft-Tissue Anterior Cruciate Ligament Graft Construct. Journal of Biomechanical Engineering, 2008, 130, 041002.	0.6	6

#	Article	IF	Citations
91	Can Markers Injected Into a Single-Loop Anterior Cruciate Ligament Graft Define the Axes of the Tibial and Femoral Tunnels? A Cadaveric Study Using Roentgen Stereophotogrammetric Analysis. Journal of Biomechanical Engineering, 2008, 130, 044503.	0.6	4
92	Results of an Initial Experience with Custom-fit Positioning Total Knee Arthroplasty in a Series of 48 Patients. Orthopedics, 2008, 31, 857-63.	0.5	178
93	Coupled Motions Under Compressive Load in Intact and ACL-Deficient Knees: A Cadaveric Study. Journal of Biomechanical Engineering, 2007, 129, 818-824.	0.6	17
94	An MRI-Based Method to Align the Compressive Loading Axis for Human Cadaveric Knees. Journal of Biomechanical Engineering, 2007, 129, 855-862.	0.6	6
95	High-Stiffness Distal Fixation Restores Anterior Laxity and Stiffness as Well as Joint Line Fixation with an Interference Screw. American Journal of Sports Medicine, 2007, 35, 2073-2082.	1.9	13
96	Is economy of competitive cyclists affected by the anteriorâ€“posterior foot position on the pedal?. Journal of Biomechanics, 2007, 40, 1262-1267.	0.9	18
97	Sloped muscle excitation waveforms improve the accuracy of forward dynamic simulations. Journal of Biomechanics, 2007, 40, 1423-1432.	0.9	4
98	Dehydration rates of meniscus and articular cartilage in vitro using a fast and accurate laser-based coordinate digitizing system. Journal of Biomechanics, 2007, 40, 3223-3229.	0.9	9
99	New algorithm for selecting meniscal allografts that best match the size and shape of the damaged meniscus. Journal of Orthopaedic Research, 2006, 24, 1535-1543.	1.2	38
100	Does a tensioning device pinned to the tibia improve knee anteriorâ€“posterior load-displacement compared to manual tensioning of the graft following anterior cruciate ligament reconstruction? A cadaveric study of two tibial fixation devices. Journal of Orthopaedic Research, 2006, 24, 1832-1841.	1.2	10
101	Lengthening of a Single-Loop Tibialis Tendon Graft Construct After Cyclic Loading: A Study Using Roentgen Stereophotogrammetric Analysis. Journal of Biomechanical Engineering, 2006, 128, 437-442.	0.6	11
102	How Changing the Inversion/Eversion Foot Angle Affects the Nondriving Intersegmental Knee Moments and the Relative Activation of the Vastii Muscles in Cycling. Journal of Biomechanical Engineering, 2006, 128, 391-398.	0.6	22
103	Empirical Relationship Between Lengthening an Anterior Cruciate Ligament Graft and Increases in Knee Anterior Laxity: A Human Cadaveric Study. Journal of Biomechanical Engineering, 2006, 128, 969-972.	0.6	10
104	Functional Roles of the Leg Muscles When Pedaling in the Recumbent Versus the Upright Position. Journal of Biomechanical Engineering, 2005, 127, 301-310.	0.6	19
105	A new tibial coordinate system improves the precision of anteriorâ€“posterior knee laxity measurements: A cadaveric study using Roentgen stereophotogrammetric analysis. Journal of Orthopaedic Research, 2005, 23, 327-333.	1.2	15
106	Are the maximum shortening velocity and the shape parameter in a Hill-type model of whole muscle related to activation?. Journal of Biomechanics, 2005, 38, 2172-2180.	0.9	20
107	Tension in a double loop tendon anterior cruciate graft during a simulated open chain knee extension exercise. Journal of Orthopaedic Research, 2005, 23, 77-83.	1.2	5
108	Heterogeneous three-dimensional strain fields during unconfined cyclic compression in bovine articular cartilage explants. Journal of Orthopaedic Research, 2005, 23, 1390-1398.	1.2	39

#	Article	IF	Citations
109	MRI-based technique for determining nonuniform deformations throughout the volume of articular cartilage explants. Magnetic Resonance in Medicine, 2005, 53, 321-328.	1.9	42
110	Error optimization of a three-dimensional magnetic resonance imaging tagging-based cartilage deformation technique. Magnetic Resonance in Medicine, 2005, 54, 1290-1294.	1.9	16
111	Design and demonstration of a dynamometric horseshoe for measuring ground reaction loads of horses during racing conditions. Journal of Biomechanics, 2005, 38, 2102-2112.	0.9	35
112	Compaction of a Bone Dowel in the Tibial Tunnel Improves the Fixation Stiffness of a Soft Tissue Anterior Cruciate Ligament Graft. American Journal of Sports Medicine, 2005, 33, 719-725.	1.9	28
113	Early Tension Loss in an Anterior Cruciate Ligament Graft. Journal of Bone and Joint Surgery - Series A, 2005, 87, 381-390.	1.4	37
114	EARLY TENSION LOSS IN AN ANTERIOR CRUCIATE LIGAMENT GRAFT. Journal of Bone and Joint Surgery - Series A, 2005, 87, 381-390.	1.4	12
115	Foam-Reinforced Elderly Human Tibia Approximates Young Human Tibia Better than Porcine Tibia. American Journal of Sports Medicine, 2004, 32, 755-764.	1.9	32
116	How the fixation method stiffness and initial tension affect anterior loadâ€“displacement of the knee and tension in anterior cruciate ligament grafts: A study in cadaveric knees using a double-loop hamstrings graft. Journal of Orthopaedic Research, 2004, 22, 613-624.	1.2	38
117	Lengthening of double-looped tendon graft constructs in three regions after cyclic loading: A study using Roentgen stereophotogrammetric analysis. Journal of Orthopaedic Research, 2004, 22, 839-846.	1.2	37
118	The sensitivity of tibiofemoral contact pressure to the size and shape of the lateral and medial menisci. Journal of Orthopaedic Research, 2004, 22, 807-814.	1.2	73
119	Initial Tension and Anterior Load-Displacement Behavior of High-Stiffness Anterior Cruciate Ligament Graft Constructs. Journal of Bone and Joint Surgery - Series A, 2004, 86, 1675-1683.	1.4	31
120	How the stiffness of meniscal attachments and meniscal material properties affect tibio-femoral contact pressure computed using a validated finite element model of the human knee joint. Journal of Biomechanics, 2003, 36, 19-34.	0.9	226
121	Non-driving intersegmental knee moments in cycling computed using a model that includes three-dimensional kinematics of the shank/foot and the effect of simplifying assumptions. Journal of Biomechanics, 2003, 36, 803-813.	0.9	31
122	The level of compressive load affects conclusions from statistical analyses to determine whether a lateral meniscal autograft restores tibial contact pressure to normal: A study in human cadaveric knees. Journal of Orthopaedic Research, 2003, 21, 459-464.	1.2	56
123	Geometric symmetry of the solar surface of hooves of Thoroughbred racehorses. American Journal of Veterinary Research, 2003, 64, 1030-1039.	0.3	13
124	Toward An MRI-Based Method to Measure Non-Uniform Cartilage Deformation: An MRI-Cyclic Loading Apparatus System and Steady-State Cyclic Displacement of Articular Cartilage Under Compressive Loading. Journal of Biomechanical Engineering, 2003, 125, 180-188.	0.6	38
125	EFFECT OF THE ANGLE OF THE FEMORAL AND TIBIAL TUNNELS IN THE CORONAL PLANE AND INCREMENTAL EXCISION OF THE POSTERIOR CRUCIATE LIGAMENT ON TENSION OF AN ANTERIOR CRUCIATE LIGAMENT GRAFT. Journal of Bone and Joint Surgery - Series A, 2003, 85, 1018-1029.	1.4	160
126	A Finite Element Model of the Human Knee Joint for the Study of Tibio-Femoral Contact. Journal of Biomechanical Engineering, 2002, 124, 273-280.	0.6	413

#	Article	IF	Citations
127	Identification of Cross-Sectional Parameters of Lateral Meniscal Allografts That Predict Tibial Contact Pressure in Human Cadaveric Knees. Journal of Biomechanical Engineering, 2002, 124, 481-489.	0.6	38
128	How Four Weeks of Implantation Affect the Strength and Stiffness of a Tendon Graft in a Bone Tunnel. American Journal of Sports Medicine, 2002, 30, 506-513.	1.9	97
129	Nonanatomic Location of the Posterior Horn of a Medial Meniscal Autograft Implanted in a Cadaveric Knee Adversely Affects the Pressure Distribution on the Tibial Plateau. American Journal of Sports Medicine, 2002, 30, 74-82.	1.9	125
130	Fatigue of clamped connections with application to a stem-handlebar assembly for off-road bicycles. Fatigue and Fracture of Engineering Materials and Structures, 2002, 25, 941-953.	1.7	1
131	In Vivo Calibration of a Femoral Fixation Device Transducer for Measuring Anterior Cruciate Ligament Graft Tension: A Study in an Ovine Model. Journal of Biomechanical Engineering, 2001, 123, 355-361.	0.6	12
132	A method for quantifying the anterior loadâ€“displacement behavior of the human knee in both the low and high stiffness regions. Journal of Biomechanics, 2001, 34, 1655-1660.	0.9	36
133	Comparison of Viscoelastic, Structural, and Material Properties of Double-Looped Anterior Cruciate Ligament Grafts Made From Bovine Digital Extensor and Human Hamstring Tendons. Journal of Biomechanical Engineering, 2001, 123, 162-169.	0.6	135
134	Static and Fatigue Strength of a Fixation Device Transducer for Measuring Anterior Cruciate Ligament Graft Tension. Journal of Biomechanical Engineering, 2000, 122, 600-603.	0.6	5
135	Contact Mechanics of the Medial Tibial Plateau after Implantation of a Medial Meniscal Allograft. American Journal of Sports Medicine, 2000, 28, 370-376.	1.9	113
136	Use of roentgenography and magnetic resonance imaging to predict meniscal geometry determined with a three-dimensional coordinate digitizing system. Journal of Orthopaedic Research, 2000, 18, 228-237.	1.2	78
137	Is the circumferential tensile modulus within a human medial meniscus affected by the test sample location and cross-sectional area?. Journal of Orthopaedic Research, 2000, 18, 945-951.	1.2	96
138	A theoretical analysis of preferred pedaling rate selection in endurance cycling. Journal of Biomechanics, 1999, 32, 409-415.	0.9	101
139	Contributions of Femoral Fixation Methods to the Stiffness of Anterior Cruciate Ligament Replacements at Implantation. Arthroscopy - Journal of Arthroscopic and Related Surgery, 1999, 15, 379-387.	1.3	141
140	Evaluation of the Single-Incision Arthroscopic Technique for Anterior Cruciate Ligament Replacement. American Journal of Sports Medicine, 1999, 27, 284-293.	1.9	77
141	Structural Properties of Six Tibial Fixation Methods for Anterior Cruciate Ligament Soft Tissue Grafts. American Journal of Sports Medicine, 1999, 27, 35-43.	1.9	292
142	How Three Methods for Fixing a Medial Meniscal Autograft Affect Tibial Contact Mechanics. American Journal of Sports Medicine, 1999, 27, 320-328.	1.9	208
143	A high-accuracy three-dimensional coordinate digitizing system for reconstructing the geometry of diarthrodial joints. Journal of Biomechanics, 1998, 31, 571-577.	0.9	28
144	The effect of intersegmental knee moments on patellofemoral contact mechanics in cycling. Journal of Biomechanics, 1998, 31, 677-683.	0.9	13

#	Article	IF	Citations
145	A new technique for transmission of signals from implantable transducers. IEEE Transactions on Biomedical Engineering, 1998, 45, 614-619.	2.5	64
146	Can an isometer predict the tensile behavior of a double-looped hamstring graft during anterior cruciate ligament reconstruction?. Journal of Orthopaedic Research, 1998, 16, 386-393.	1.2	6
147	Quadriceps load aggravates and roofplasty mitigates active impingement of anterior cruciate ligament grafts against the intercondylar roof. Journal of Orthopaedic Research, 1998, 16, 611-617.	1.2	26
148	Telemetry system for monitoring anterior cruciate ligament graft forcesin vivo. Medical and Biological Engineering and Computing, 1998, 36, 330-336.	1.6	7
149	Evaluation of Performance Criteria for Simulation of Submaximal Steady-State Cycling Using a Forward Dynamic Model. Journal of Biomechanical Engineering, 1998, 120, 334-341.	0.6	113
150	An Implantable Transducer for Measuring Tension in an Anterior Cruciate Ligament Graft. Journal of Biomechanical Engineering, 1998, 120, 327-333.	0.6	9
151	Analysis of Skiing Accidents Involving Combined Injuries to the Medial Collateral and Anterior Cruciate Ligaments. American Journal of Sports Medicine, 1997, 25, 35-40.	1.9	26
152	An Off-Road Bicycle With Adjustable Suspension Kinematics. Journal of Mechanical Design, Transactions of the ASME, 1997, 119, 370-375.	1.7	2
153	Electromechanical Ski Release Binding With Mechanical Backup. Journal of Mechanical Design, Transactions of the ASME, 1997, 119, 145-148.	1.7	1
154	An In Vitro Osteotomy Method to Expose the Medial Compartment of the Human Knee. Journal of Biomechanical Engineering, 1997, 119, 379-385.	0.6	36
155	Contact pressure and tension in anterior cruciate ligament grafts subjected to roof impingement during passive extension. Journal of Orthopaedic Research, 1997, 15, 263-268.	1.2	45
156	In vivo tensile behavior of a four-bundle hamstring graft as a replacement for the anterior cruciate ligament. Journal of Orthopaedic Research, 1997, 15, 539-545.	1.2	61
157	Direct measurement of strain in the posterolateral bundle of the anterior cruciate ligament. Journal of Biomechanics, 1997, 30, 281-283.	0.9	147
158	Pedal and knee loads using a multi-degree-of-freedom pedal platform in cycling. Journal of Biomechanics, 1997, 30, 505-511.	0.9	17
159	The effect of pedaling rate on coordination in cycling. Journal of Biomechanics, 1997, 30, 1051-1058.	0.9	200
160	Strain in the medial collateral ligament of the human knee under single and combined loads. Journal of Biomechanics, 1996, 29, 199-206.	0.9	99
161	A New Force Plate Design Incorporating Octagonal Strain Rings. Journal of Applied Biomechanics, 1995, 11, 311-321.	0.3	5
162	A New Load Application System for In Vitro Study of Ligamentous Injuries to the Human Knee Joint. Journal of Biomechanical Engineering, 1995, 117, 373-382.	0.6	54

#	Article	IF	Citations
163	A Dynamic System Model for Estimating Surface-Induced Frame Loads During Off-Road Cycling. Journal of Mechanical Design, Transactions of the ASME, 1994, 116, 816-822.	1.7	23
164	Response of intersegmental knee loads to foot/pedal platform degrees of freedom in cycling. Journal of Biomechanics, 1993, 26, 1327-1340.	0.9	39
165	An activation-recruitment scheme for use in muscle modeling. Journal of Biomechanics, 1992, 25, 1467-1476.	0.9	11
166	The effect of lower-limb anatomy on knee loads during seated cycling. Journal of Biomechanics, 1992, 25, 1195-1207.	0.9	39
167	Three-dimensional knee joint loading during seated cycling. Journal of Biomechanics, 1992, 25, 41-53.	0.9	45
168	Physiological response to cycling with both circular and noncircular chainrings. Medicine and Science in Sports and Exercise, 1992, 24, 1114-22.	0.2	18
169	An angular velocity profile in cycling derived from mechanical energy analysis. Journal of Biomechanics, 1991, 24, 577-586.	0.9	13
170	Implementation of a Five Degree of Freedom Automated System to Determine Knee Flexibility In Vitro. Journal of Biomechanical Engineering, 1990, 112, 392-400.	0.6	29
171	Goniometric measurement of hip motion in cycling while standing. Journal of Biomechanics, 1990, 23, 687-703.	0.9	13
172	A method for designing multiload component dynamometers incorporating octagonal strain rings. Experimental Mechanics, 1989, 29, 195-204.	1.1	10
173	Multivariable optimization of cycling biomechanics. Journal of Biomechanics, 1989, 22, 1151-1161.	0.9	76
174	Bivariate optimization of pedalling rate and crank arm length in cycling. Journal of Biomechanics, 1988, 21, 839-849.	0.9	59
175	A mechanically decoupled two force component bicycle pedal dynamometer. Journal of Biomechanics, 1988, 21, 375-386.	0.9	76
176	Contributions of rider-induced loads to bicycle frame stress. Journal of Strain Analysis for Engineering Design, 1988, 23, 105-114.	1.0	10
177	A microcomputer controlled snow ski binding systemâ€”I. Instrumentation and field evaluation. Journal of Biomechanics, 1985, 18, 255-265.	0.9	9
178	Analysis of Road Induced Loads in Bicycle Frames. Journal of Mechanisms, Transmissions, and Automation in Design, 1983, 105, 138-145.	0.2	14
179	Measurment of pedal loading in bicycling: I. Instrumentation. Journal of Biomechanics, 1981, 14, 843-855.	0.9	85
180	Measurement of pedal loading in bicycling: II. Analysis and results. Journal of Biomechanics, 1981, 14, 857-872.	0.9	108

#	Article	IF	Citations
181	Design of Aluminum Bicycle Frames. Journal of Mechanical Design, 1981, 103, 901-907.	0.1	7
182	A Biomechanical Model for Actively Controlled Snow Ski Bindings. Journal of Biomechanical Engineering, 1980, 102, 326-331.	0.6	4
183	Analysis of Leg Loading in Snow Skiing. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1978, 100, 177-186.	0.9	17
184	A Preliminary Analysis of Ski Release Binding Dynamic Properties. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1976, 98, 301-308.	0.9	1
185	Kinematically Aligned TKA with MRI-based Cutting Guides. , 0, , 207-207.		9