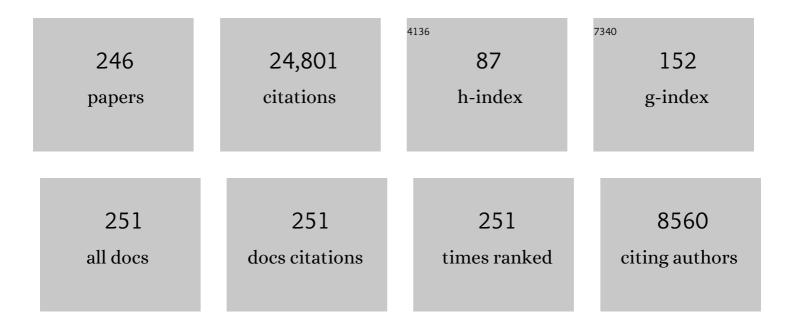
Savio L-Y Woo

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Tensile properties of the human femur-anterior cruciate ligament-tibia complex. American Journal of Sports Medicine, 1991, 19, 217-225.	1.9	1,049
2	Biomechanical Analysis of an Anatomic Anterior Cruciate Ligament Reconstruction. American Journal of Sports Medicine, 2002, 30, 660-666.	1.9	867
3	Effects of Increasing Tibial Slope on the Biomechanics of the Knee. American Journal of Sports Medicine, 2004, 32, 376-382.	1.9	643
4	Knee stability and graft function following anterior cruciate ligament reconstruction: Comparison between 11 o'clock and 10 o'clock femoral tunnel placement. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2003, 19, 297-304.	1.3	612
5	Distribution of in situ forces in the anterior cruciate ligament in response to rotatory loads. Journal of Orthopaedic Research, 2004, 22, 85-89.	1.2	553
6	Effects of postmortem storage by freezing on ligament tensile behavior. Journal of Biomechanics, 1986, 19, 399-404.	0.9	512
7	Quantitative Analysis of Human Cruciate Ligament Insertions. Arthroscopy - Journal of Arthroscopic and Related Surgery, 1999, 15, 741-749.	1.3	474
8	THE EFFECTIVENESS OF RECONSTRUCTION OF THE ANTERIOR CRUCIATE LIGAMENT WITH HAMSTRINGS AND PATELLAR TENDON. Journal of Bone and Joint Surgery - Series A, 2002, 84, 907-914.	1.4	435
9	Importance of the medial meniscus in the anterior cruciate ligament-deficient knee. Journal of Orthopaedic Research, 2000, 18, 109-115.	1.2	361
10	Effects of early intermittent passive mobilization on healing canine flexor tendons. Journal of Hand Surgery, 1982, 7, 170-175.	0.7	357
11	Tensile and viscoelastic properties of human patellar tendon. Journal of Orthopaedic Research, 1994, 12, 796-803.	1.2	348
12	Biomechanics of knee ligaments: injury, healing, and repair. Journal of Biomechanics, 2006, 39, 1-20.	0.9	344
13	Knee Stability and Graft Function after Anterior Cruciate Ligament Reconstruction. American Journal of Sports Medicine, 2004, 32, 1825-1832.	1.9	342
14	The Human Posterior Cruciate Ligament Complex: An Interdisciplinary Study. American Journal of Sports Medicine, 1995, 23, 736-745.	1.9	333
15	Biomechanical Analysis of a Posterior Cruciate Ligament Reconstruction. American Journal of Sports Medicine, 2000, 28, 32-39.	1.9	324
16	Biomechanical Analysis of a Double-Bundle Posterior Cruciate Ligament Reconstruction. American Journal of Sports Medicine, 2000, 28, 144-151.	1.9	320
17	Hamstrings—an anterior cruciate ligament protagonist. American Journal of Sports Medicine, 1993, 21, 231-237.	1.9	306
18	The Effects of Platelet-Derived Growth Factor-BB on Healing of the Rabbit Medial Collateral Ligament. American Journal of Sports Medicine, 1998, 26, 549-554.	1.9	271

#	Article	IF	CITATIONS
19	The effect of anterior cruciate ligament graft fixation site at the tibia on knee stability: Evaluation using a robotic testing system. Arthroscopy - Journal of Arthroscopic and Related Surgery, 1997, 13, 177-182.	1.3	265
20	The Biomechanical Interdependence between the Anterior Cruciate Ligament Replacement Graft and the Medial Meniscus. American Journal of Sports Medicine, 2001, 29, 226-231.	1.9	259
21	The forces in the anterior cruciate ligament and knee kinematics during a simulated pivot shift test: A human cadaveric study using robotic technology. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2000, 16, 633-639.	1.3	258
22	A Biomechanical Analysis of Rotator Cuff Deficiency in a Cadaveric Model. American Journal of Sports Medicine, 1996, 24, 286-292.	1.9	252
23	Tissue Engineering of Ligament and Tendon Healing. Clinical Orthopaedics and Related Research, 1999, 367, S312-S323.	0.7	247
24	Cell orientation determines the alignment of cell-produced collagenous matrix. Journal of Biomechanics, 2003, 36, 97-102.	0.9	247
25	Treatment of the medial collateral ligament injury. American Journal of Sports Medicine, 1987, 15, 22-29.	1.9	242
26	Immobility effects on synovial joints. The pathomechanics of joint contracture1. Biorheology, 1980, 17, 95-110.	1.2	234
27	Effect of Capsular Injury on Acromioclavicular Joint Mechanics. Journal of Bone and Joint Surgery - Series A, 2001, 83, 1344-1351.	1.4	232
28	The Importance of Controlled Passive Mobilization on Flexor Tendon Healing: <i>A Biomechanical Study</i> . Acta Orthopaedica, 1981, 52, 615-622.	1.4	230
29	Enhancement of Tendon-Bone Integration of Anterior Cruciate Ligament Grafts with Bone Morphogenetic Protein-2 Gene Transfer. Journal of Bone and Joint Surgery - Series A, 2002, 84, 1123-1131.	1.4	225
30	Biomechanics of Knee Ligaments. American Journal of Sports Medicine, 1999, 27, 533-543.	1.9	223
31	The Effect of Immobilization on Collagen Turnover in Connective Tissue: A Biochemical-Biomechanical Correlation. Acta Orthopaedica, 1982, 53, 325-332.	1.4	215
32	Use of patellar tendon autograft for anterior cruciate ligament reconstruction in the rabbit: A long-term histologic and biomechanical study. Journal of Orthopaedic Research, 1989, 7, 474-485.	1.2	212
33	The effect of axial tibial torque on the function of the anterior cruciate ligament. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2002, 18, 394-398.	1.3	210
34	Effect of growth factors on matrix synthesis by ligament fibroblasts. Journal of Orthopaedic Research, 1997, 15, 18-23.	1.2	207
35	The Use of a Universal Force-Moment Sensor to Determine In-Situ Forces in Ligaments: A New Methodology. Journal of Biomechanical Engineering, 1995, 117, 1-7.	0.6	204
36	The effect of rotator cuff tears on reaction forces at the glenohumeral joint. Journal of Orthopaedic Research, 2002, 20, 439-446.	1.2	198

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37	Connective tissue response to immobility. Arthritis and Rheumatism, 1975, 18, 257-264.	6.7	197
38	The Use of Robotics Technology to Study Human Joint Kinematics: A New Methodology. Journal of Biomechanical Engineering, 1993, 115, 211-217.	0.6	187
39	Interspecies variation of compressive biomechanical properties of the meniscus. Journal of Biomedical Materials Research Part B, 1995, 29, 823-828.	3.0	183
40	The effects of multiple-strand suture methods on the strength and excusion of repaired intrasynovial flexor tendons: A biomechanical study in dogs. Journal of Hand Surgery, 1998, 23, 97-104.	0.7	182
41	An in vitro mechanical and histological study of acute stretching on rabbit tibial nerve. Journal of Orthopaedic Research, 1990, 8, 694-701.	1.2	178
42	The mechanical properties of skeletally mature rabbit anterior cruciate ligament and patellar tendon over a range of strain rates. Journal of Orthopaedic Research, 1993, 11, 58-67.	1.2	176
43	A Multidisciplinary Study of the Healing of an Intraarticular Anterior Cruciate Ligament Graft in a Goat Model. American Journal of Sports Medicine, 2001, 29, 620-626.	1.9	174
44	Functional Evaluation of the Ligaments at the Acromioclavicular Joint during Anteroposterior and Superoinferior Translation. American Journal of Sports Medicine, 1997, 25, 858-862.	1.9	171
45	Importance of Tibial Slope for Stability of the Posterior Cruciate Ligament—Deficient Knee. American Journal of Sports Medicine, 2007, 35, 1443-1449.	1.9	170
46	Revolutionizing orthopaedic biomaterials: The potential of biodegradable and bioresorbable magnesium-based materials for functional tissue engineering. Journal of Biomechanics, 2014, 47, 1979-1986.	0.9	169
47	Flexor tendon repair. Journal of Orthopaedic Research, 1986, 4, 119-128.	1.2	166
48	Cyclic Mechanical Stretching of Human Tendon Fibroblasts Increases the Production of Prostaglandin E 2 and Levels of Cyclooxygenase Expression: A Novel In Vitro Model Study. Connective Tissue Research, 2003, 44, 128-133.	1.1	163
49	Tensile properties of the medial collateral ligament as a function of age. Journal of Orthopaedic Research, 1986, 4, 133-141.	1.2	158
50	Treatment of the medial collateral ligament injury. American Journal of Sports Medicine, 1987, 15, 15-21.	1.9	158
51	The effects of strain rate on the properties of the medial collateral ligament in skeletally immature and mature rabbits: A biomechanical and histological study. Journal of Orthopaedic Research, 1990, 8, 712-721.	1.2	158
52	Injury and Repair of Ligaments and Tendons. Annual Review of Biomedical Engineering, 2000, 2, 83-118.	5.7	158
53	Healing and Repair of Ligament Injuries in the Knee. Journal of the American Academy of Orthopaedic Surgeons, The, 2000, 8, 364-372.	1.1	156
54	On the viscoelastic properties of the anteromedial bundle of the anterior cruciate ligament. Journal of Biomechanics, 1993, 26, 447-452.	0.9	149

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55	The effects of refreezing on the viscoelastic and tensile properties of ligaments. Journal of Biomechanics, 2006, 39, 1153-1157.	0.9	147
56	A three-dimensional finite element model of the human anterior cruciate ligament: a computational analysis with experimental validation. Journal of Biomechanics, 2004, 37, 383-390.	0.9	136
57	An Improved Method to Analyze the Stress Relaxation of Ligaments Following a Finite Ramp Time Based on the Quasi-Linear Viscoelastic Theory. Journal of Biomechanical Engineering, 2004, 126, 92-97.	0.6	135
58	Determination of the In Situ Forces in the Human Posterior Cruciate Ligament Using Robotic Technology. American Journal of Sports Medicine, 1998, 26, 395-401.	1.9	134
59	A Functional Comparison of Animal Anterior Cruciate Ligament Models to the Human Anterior Cruciate Ligament. Annals of Biomedical Engineering, 1998, 26, 345-352.	1.3	131
60	A quantitative analysis of valgus torque on the ACL: A human cadaveric study. Journal of Orthopaedic Research, 2003, 21, 1107-1112.	1.2	130
61	A Comparison of the Physical Behavior of Normal Articular Cartilage and the Arthroplasty Surface. Journal of Bone and Joint Surgery - Series A, 1972, 54, 147-160.	1.4	130
62	Determination of the in situ loads on the human anterior cruciate ligament. Journal of Orthopaedic Research, 1993, 11, 686-695.	1.2	126
63	Inflammatory Response of Human Tendon Fibroblasts to Cyclic Mechanical Stretching. American Journal of Sports Medicine, 2004, 32, 435-440.	1.9	122
64	Evaluation of a new injury model to study medial collateral ligament healing: Primary repair versus nonoperative treatment. Journal of Orthopaedic Research, 1991, 9, 516-528.	1.2	121
65	Shoulder muscle forces and tendon excursions during glenohumeral abduction in the scapular plane. Journal of Shoulder and Elbow Surgery, 1995, 4, 199-208.	1.2	121
66	A New Method for Determining Cross-Sectional Shape and Area of Soft Tissues. Journal of Biomechanical Engineering, 1988, 110, 110-114.	0.6	119
67	Effect of combined axial compressive and anterior tibial loads onin situ forces in the anterior cruciate ligament: A porcine study. Journal of Orthopaedic Research, 1998, 16, 122-127.	1.2	117
68	The Effects of a Popliteus Muscle Load on In Situ Forces in the Posterior Cruciate Ligament and on Knee Kinematics. American Journal of Sports Medicine, 1998, 26, 669-673.	1.9	117
69	The use of porcine small intestinal submucosa to enhance the healing of the medial collateral ligament—a functional tissue engineering study in rabbits. Journal of Orthopaedic Research, 2004, 22, 214-220.	1.2	116
70	Forces and moments in six-DOF at the human knee joint: Mathematical description for control. Journal of Biomechanics, 1996, 29, 1577-1585.	0.9	114
71	In-situ force in the medial and lateral structures of intact and ACL-deficient knees. Journal of Orthopaedic Science, 2000, 5, 567-571.	0.5	114
72	Biology and Biomechanics of the Anterior Cruciate Ligament. Clinics in Sports Medicine, 1993, 12, 637-670.	0.9	114

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73	The Use of a Laser Micrometer System to Determine the Cross-Sectional Shape and Area of Ligaments: A Comparative Study With Two Existing Methods. Journal of Biomechanical Engineering, 1990, 112, 426-431.	0.6	106
74	The effects of frequency and duration of controlled passive mobilization on tendon healing. Journal of Orthopaedic Research, 1991, 9, 705-713.	1.2	102
75	Influences of flexor sheath continuity and early motion on tendon healing in dogs. Journal of Hand Surgery, 1990, 15, 69-77.	0.7	100
76	Mechanical behavior of two hamstring graft constructs for reconstruction of the anterior cruciate ligament. Journal of Orthopaedic Research, 2000, 18, 456-461.	1.2	96
77	The effects of increased tension on healing medial collateral ligaments. American Journal of Sports Medicine, 1991, 19, 347-354.	1.9	95
78	Biomechanical function of the human anterior cruciate ligament. Arthroscopy - Journal of Arthroscopic and Related Surgery, 1994, 10, 140-147.	1.3	93
79	In situ force distribution in the glenohumeral joint capsule during anterior-posterior loading. Journal of Orthopaedic Research, 1999, 17, 769-776.	1.2	93
80	The effects of multiple freeze–thaw cycles on the biomechanical properties of the human boneâ€patellar tendonâ€bone allograft. Journal of Orthopaedic Research, 2011, 29, 1193-1198.	1.2	93
81	Tensile properties of the interosseous membrane of the human forearm. Journal of Orthopaedic Research, 1996, 14, 842-845.	1.2	92
82	Tensile properties of the superior glenohumeral and coracohumeral ligaments. Journal of Shoulder and Elbow Surgery, 1996, 5, 249-254.	1.2	91
83	In situforces in the posterolateral structures of the knee under posterior tibial loading in the intact and posterior cruciate ligament-deficient knee. Journal of Orthopaedic Research, 1998, 16, 675-681.	1.2	91
84	Biomechanics and anterior cruciate ligament reconstruction. Journal of Orthopaedic Surgery and Research, 2006, 1, 2.	0.9	91
85	Type V collagen is increased during rabbit medial collateral ligament healing. Knee Surgery, Sports Traumatology, Arthroscopy, 2000, 8, 281-285.	2.3	89
86	Role of biomechanics in the understanding of normal, injured, and healing ligaments and tendons. BMC Sports Science, Medicine and Rehabilitation, 2009, 1, 9.	0.7	89
87	A new dynamic testing apparatus to study glenohumeral joint motion. Journal of Biomechanics, 1995, 28, 869-874.	0.9	88
88	Experimental investigation of reaction forces at the glenohumeral joint during active abduction. Journal of Shoulder and Elbow Surgery, 2000, 9, 409-417.	1.2	88
89	A comparative evaluation of the mechanical properties of the rabbit medial collateral and anterior cruciate ligaments. Journal of Biomechanics, 1992, 25, 377-386.	0.9	87
90	Differences in Torsional Joint Stiffness of the Knee between Genders. American Journal of Sports Medicine, 2006, 34, 765-770.	1.9	87

#	Article	IF	CITATIONS
91	The effect of soft-tissue graft fixation in anterior cruciate ligament reconstruction on graft-tunnel motion under anterior tibial loading. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2002, 18, 960-967.	1.3	86
92	In vitro biomechanical analysis of suture methods for flexor tendon repair. Journal of Orthopaedic Research, 1993, 11, 603-611.	1.2	84
93	Early expression of marker genes in the rabbit medial collateral and anterior cruciate ligaments: The use of different viral vectors and the effects of injury. Journal of Orthopaedic Research, 1999, 17, 37-42.	1.2	83
94	Aging and sex-related changes in the biomechanical properties of the rabbit medial collateral ligament. Mechanisms of Ageing and Development, 1990, 56, 129-142.	2.2	82
95	Morphologic and biomechanical comparison of tendons used as free grafts. Journal of Hand Surgery, 1993, 18, 76-82.	0.7	82
96	Biomechanics of Knee Ligaments. Journal of Bone and Joint Surgery - Series A, 1993, 75, 1716-1727.	1.4	82
97	Role of the forearm interosseous ligament: Is it more than just longitudinal load transfer?. Journal of Hand Surgery, 2000, 25, 683-688.	0.7	81
98	Biomechanics of knee ligament healing, repair and reconstruction. Journal of Biomechanics, 1997, 30, 431-439.	0.9	80
99	Use of robotic technology for diathrodial joint research. Journal of Science and Medicine in Sport, 1999, 2, 283-297.	0.6	79
100	Anterior cruciate ligament tunnel placement: Comparison of insertion site anatomy with the guidelines of a computer-assisted surgical system. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2003, 19, 154-160.	1.3	79
101	Biomechanical Comparison of Tibial Inlay versus Transtibial Techniques for Posterior Cruciate Ligament Reconstruction. American Journal of Sports Medicine, 2004, 32, 587-593.	1.9	79
102	The effect of initial graft tension on the biomechanical properties of a healing ACL replacement graft: A study in goats. Journal of Orthopaedic Research, 2003, 21, 708-715.	1.2	78
103	Gene Expression by Fibroblasts Seeded on Small Intestinal Submucosa and Subjected to Cyclic Stretching. Tissue Engineering, 2007, 13, 1313-1323.	4.9	78
104	Temperature Dependent Behavior of the Canine Medial Collateral Ligament. Journal of Biomechanical Engineering, 1987, 109, 68-71.	0.6	77
105	Cytokine-induced tendinitis: A preliminary study in rabbits. Journal of Orthopaedic Research, 1999, 17, 168-177.	1.2	71
106	The Effect of Knee Flexion Angle and Application of an Anterior Tibial Load at the Time of Graft Fixation on the Biomechanics of a Posterior Cruciate Ligament-Reconstructed Knee. American Journal of Sports Medicine, 2000, 28, 460-465.	1.9	70
107	A rat model to study the structural properties of the vagina and its supportive tissues. American Journal of Obstetrics and Gynecology, 2005, 192, 80-88.	0.7	70
108	Effects of Knee Flexion Angles for Graft Fixation on Force Distribution in Double-Bundle Anterior Cruciate Ligament Grafts. American Journal of Sports Medicine, 2006, 34, 577-585.	1.9	70

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109	Long-term effects of porcine small intestine submucosa on the healing of medial collateral ligament: A functional tissue engineering study. Journal of Orthopaedic Research, 2006, 24, 811-819.	1.2	67
110	Evaluation of the effect of joint constraints on thein situ force distribution in the anterior cruciate ligament. Journal of Orthopaedic Research, 1997, 15, 278-284.	1.2	66
111	Effect of the iliotibial band on knee biomechanics during a simulated pivot shift test. Journal of Orthopaedic Research, 2006, 24, 967-973.	1.2	66
112	Translation from Research to Applications. Tissue Engineering, 2006, 12, 3341-3364.	4.9	65
113	Knee Kinematic Profiles during Drop Landings. Medicine and Science in Sports and Exercise, 2011, 43, 533-541.	0.2	64
114	Measurements of Tibiofemoral Kinematics during Soft and Stiff Drop Landings Using Biplane Fluoroscopy. American Journal of Sports Medicine, 2011, 39, 1714-1723.	1.9	63
115	Interaction between the ACL graft and MCL in a combined ACL+MCL knee injury using a goat model. Acta Orthopaedica, 2000, 71, 387-393.	1.4	62
116	Collagens in an adult bovine medial collateral ligament: Immunofluorescence localization by confocal microscopy reveals that type XIV collagen predominates at the ligament-bone junction. Matrix Biology, 1995, 14, 743-751.	1.5	61
117	A rigid-body method for finding centers of rotation and angular displacements of planar joint motion. Journal of Biomechanics, 1987, 20, 715-721.	0.9	60
118	The Position of the Tibia during Graft Fixation Affects Knee Kinematics and Graft Forces for Anterior Cruciate Ligament Reconstruction. American Journal of Sports Medicine, 2001, 29, 771-776.	1.9	59
119	An Evaluation of the Quasi-Linear Viscoelastic Properties of the Healing Medial Collateral Ligament in a Goat Model. Annals of Biomedical Engineering, 2004, 32, 329-335.	1.3	59
120	Fiber Kinematics of Small Intestinal Submucosa Under Biaxial and Uniaxial Stretch. Journal of Biomechanical Engineering, 2006, 128, 890-898.	0.6	59
121	Effects of Cell Seeding and Cyclic Stretch on the Fiber Remodeling in an Extracellular Matrix–Derived Bioscaffold. Tissue Engineering - Part A, 2009, 15, 957-963.	1.6	59
122	Perichondrial autograft for articular cartilage Shear modulus of neocartilage studied in rabbits. Acta Orthopaedica, 1987, 58, 510-515.	1.4	58
123	Healing of the medial collateral ligament following a triad injury: A biomechanical and histological study of the knee in rabbits. Journal of Orthopaedic Research, 1992, 10, 485-495.	1.2	58
124	The effects of age on rabbit MCL fibroblast matrix synthesis in response to TGF-β1 or EGF. Mechanisms of Ageing and Development, 1997, 97, 121-130.	2.2	58
125	Biomechanical and Biochemical Changes in the Periarticular Connective Tissue During Contracture Development in the Immobilized Rabbit Knee. Connective Tissue Research, 1974, 2, 315-323.	1.1	57
126	Viscoelastic shear properties of the equine medial meniscus. Journal of Orthopaedic Research, 1991, 9, 550-558.	1.2	57

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127	Potential of healing a transected anterior cruciate ligament with genetically modified extracellular matrix bioscaffolds in a goat model. Knee Surgery, Sports Traumatology, Arthroscopy, 2012, 20, 1357-1365.	2.3	57
128	Precision of ACL Tunnel Placement Using Traditional and Robotic Techniques. Computer Aided Surgery, 2001, 6, 270-278.	1.8	55
129	Fate of donor bone marrow cells in medial collateral ligament after simulated autologous transplantation. Microscopy Research and Technique, 2002, 58, 39-44.	1.2	55
130	BIOMECHANICAL PROPERTIES OF PERIPHERAL NERVES. Hand Clinics, 1996, 12, 195-204.	0.4	55
131	Immobilization of the knee joint alters the mechanical and ultrastructural properties of the rabbit anterior cruciate ligament. Journal of Orthopaedic Research, 1995, 13, 191-200.	1.2	54
132	Stress relaxation of a peripheral nerve. Journal of Hand Surgery, 1991, 16, 859-863.	0.7	53
133	Treatment with Bioscaffold Enhances the the Fibril Morphology and the Collagen Composition of Healing Medial Collateral Ligament in Rabbits. Tissue Engineering, 2006, 12, 159-166.	4.9	53
134	Biomechanical Evaluation of the Quadriceps Tendon Autograft for Anterior Cruciate Ligament Reconstruction. American Journal of Sports Medicine, 2014, 42, 723-730.	1.9	53
135	A Structural Model to Describe the Nonlinear Stress-Strain Behavior for Parallel-Fibered Collagenous Tissues. Journal of Biomechanical Engineering, 1989, 111, 361-363.	0.6	52
136	In Vivo Tibiofemoral Kinematics During 4 Functional Tasks of Increasing Demand Using Biplane Fluoroscopy. American Journal of Sports Medicine, 2012, 40, 170-178.	1.9	52
137	New experimental procedures to evaluate the biomechanical properties of healing canine medial collateral ligaments. Journal of Orthopaedic Research, 1987, 5, 425-432.	1.2	51
138	Healing of the medial collateral ligament after a combined medial collateral and anterior cruciate ligament injury and reconstruction of the anterior cruciate ligament: Comparison of repair and nonrepair of medial collateral ligament tears in rabbits. Journal of Orthopaedic Research, 1995, 13, 442-449.	1.2	51
139	Medial collateral knee ligament healing: Combined medial collateral and anterior cruciate ligament injuries studied in rabbits. Acta Orthopaedica, 1997, 68, 142-148.	1.4	51
140	Use of a bioscaffold to improve healing of a patellar tendon defect after graft harvest for ACL reconstruction: A study in rabbits. Journal of Orthopaedic Research, 2008, 26, 255-263.	1.2	51
141	Cartilage resurfacing of the rabbit knee: The use of an allogeneic demineralized bone matrix-autogeneic perichondrium composite implant. Acta Orthopaedica, 1990, 61, 201-206.	1.4	50
142	Current Concepts for Rehabilitation following Anterior Cruciate Ligament Reconstruction. Journal of Orthopaedic and Sports Physical Therapy, 1992, 15, 270-278.	1.7	50
143	Tensile properties of an anterior cruciate ligament graft after bone–patellar tendon–bone press-fit fixation. Knee Surgery, Sports Traumatology, Arthroscopy, 2003, 11, 68-74.	2.3	50
144	Biomechanics of the ACL: Measurements of in situ force in the ACL and knee kinematics. Knee, 1998, 5, 267-288.	0.8	49

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145	In situforces in the human posterior cruciate ligament in response to muscle loads: A cadaveric study. Journal of Orthopaedic Research, 1999, 17, 763-768.	1.2	48
146	The physiological basis for application of controlled stress in the rehabilitation of flexor tendon injuries. Journal of Hand Therapy, 1989, 2, 66-70.	0.7	47
147	Medial collateral ligament healing one year after a concurrent medial collateral ligament and anterior cruciate ligament injury: An interdisciplinary study in rabbits. Journal of Orthopaedic Research, 1996, 14, 223-227.	1.2	46
148	Evaluation of Knee Stability with Use of a Robotic System. Journal of Bone and Joint Surgery - Series A, 2009, 91, 78-84.	1.4	46
149	Ultrastructural Differences Between the Cells of the Medial Collateral and the Anterior Cruciate Ligaments. Clinical Orthopaedics and Related Research, 1991, &NA, 279???286.	0.7	45
150	Structure and Function of the Healing Medial Collateral Ligament in a Goat Model. Annals of Biomedical Engineering, 2001, 29, 173-180.	1.3	42
151	The healing medial collateral ligament following a combined anterior cruciate and medial collateral ligament injury—a biomechanical study in a goat model. Journal of Orthopaedic Research, 2003, 21, 1124-1130.	1.2	42
152	Estimation of ACL forces by reproducing knee kinematics between sets of knees: A novel non-invasive methodology. Journal of Biomechanics, 2006, 39, 2371-2377.	0.9	41
153	Quantitative Analysis of Collagen Fibrils of Human Cruciate and Meniscofemoral Ligaments. Clinical Orthopaedics and Related Research, 1998, 357, 205-211.	0.7	40
154	Response of donor and recipient cells after transplantation of cells to the ligament and tendon. Microscopy Research and Technique, 2002, 58, 34-38.	1.2	40
155	Biomechanics of Initial Tibial Fixation in Posterior Cruciate Ligament Reconstruction. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2005, 21, 1164-1171.	1.3	40
156	Functional Tissue Engineering for Ligament Healing: Potential of Antisense Gene Therapy. Annals of Biomedical Engineering, 2004, 32, 342-351.	1.3	39
157	Biomechanical evaluation of using one hamstrings tendon for ACL reconstruction: a human cadaveric study. Knee Surgery, Sports Traumatology, Arthroscopy, 2010, 18, 11-19.	2.3	39
158	Anatomic parameters for planning of interosseous ligament reconstruction using computer-assisted techniques. Journal of Hand Surgery, 2003, 28, 111-116.	0.7	38
159	Determination of a Safe Range of Knee Flexion Angles for Fixation of the Grafts in Double-Bundle Anterior Cruciate Ligament Reconstruction. American Journal of Sports Medicine, 2007, 35, 1513-1520.	1.9	38
160	Effects of a bioscaffold on collagen fibrillogenesis in healing medial collateral ligament in rabbits. Journal of Orthopaedic Research, 2008, 26, 1098-1104.	1.2	38
161	A biomechanical and histological evaluation of the structure and function of the healing medial collateral ligament in a goat model. Knee Surgery, Sports Traumatology, Arthroscopy, 2003, 11, 155-162.	2.3	35
162	Tension patterns of the anteromedial and posterolateral grafts in a doubleâ€bundle anterior cruciate ligament reconstruction. Journal of Orthopaedic Research, 2009, 27, 879-884.	1.2	35

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163	The development and validation of a charge-coupled device laser reflectance system to measure the complex cross-sectional shape and area of soft tissues. Journal of Biomechanics, 2006, 39, 3071-3075.	0.9	33
164	Experimental hemarthrosis in the knee of the mature canine. Arthritis and Rheumatism, 1976, 19, 59-67.	6.7	32
165	Measurement of Changes in Ligament Tension with Knee Motion and Skeletal Maturation. Journal of Biomechanical Engineering, 1990, 112, 46-51.	0.6	32
166	Injury and reconstruction of the anterior cruciate ligament and knee osteoarthritis. Osteoarthritis and Cartilage, 1999, 7, 110-121.	0.6	32
167	Antisense Oligonucleotides Reduce Synthesis of Procollagen α1 (V) Chain in Human Patellar Tendon Fibroblasts: Potential Application in Healing Ligaments and Tendons. Connective Tissue Research, 2003, 44, 167-172.	1.1	32
168	Biomechanical function of the posterior horn of the medial meniscus: a human cadaveric study. Journal of Orthopaedic Science, 2004, 9, 280-284.	0.5	32
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