

Savio L-Y Woo

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246
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142
g-index

250
ext. papers

23,137
ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
246	Tensile properties of the human femur-anterior cruciate ligament-tibia complex. The effects of specimen age and orientation. <i>American Journal of Sports Medicine</i> , 1991 , 19, 217-25	6.8	906
245	Biomechanical analysis of an anatomic anterior cruciate ligament reconstruction. <i>American Journal of Sports Medicine</i> , 2002 , 30, 660-6	6.8	793
244	Knee stability and graft function following anterior cruciate ligament reconstruction: Comparison between 11 o'clock and 10 o'clock femoral tunnel placement. 2002 Richard O'Connor Award paper. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2003 , 19, 297-304	5.4	565
243	Distribution of in situ forces in the anterior cruciate ligament in response to rotatory loads. <i>Journal of Orthopaedic Research</i> , 2004 , 22, 85-9	3.8	506
242	Effects of increasing tibial slope on the biomechanics of the knee. <i>American Journal of Sports Medicine</i> , 2004 , 32, 376-82	6.8	506
241	Effects of postmortem storage by freezing on ligament tensile behavior. <i>Journal of Biomechanics</i> , 1986 , 19, 399-404	2.9	466
240	Quantitative analysis of human cruciate ligament insertions. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 1999 , 15, 741-9	5.4	437
239	The effectiveness of reconstruction of the anterior cruciate ligament with hamstrings and patellar tendon . A cadaveric study comparing anterior tibial and rotational loads. <i>Journal of Bone and Joint Surgery - Series A</i> , 2002 , 84, 907-14	5.6	396
238	Effects of early intermittent passive mobilization on healing canine flexor tendons. <i>Journal of Hand Surgery</i> , 1982 , 7, 170-5	2.6	329
237	Knee stability and graft function after anterior cruciate ligament reconstruction: a comparison of a lateral and an anatomical femoral tunnel placement. <i>American Journal of Sports Medicine</i> , 2004 , 32, 1825-32	6.8	321
236	Tensile and viscoelastic properties of human patellar tendon. <i>Journal of Orthopaedic Research</i> , 1994 , 12, 796-803	3.8	307
235	Importance of the medial meniscus in the anterior cruciate ligament-deficient knee. <i>Journal of Orthopaedic Research</i> , 2000 , 18, 109-15	3.8	303
234	Biomechanical analysis of a posterior cruciate ligament reconstruction. Deficiency of the posterolateral structures as a cause of graft failure. <i>American Journal of Sports Medicine</i> , 2000 , 28, 32-9	6.8	300
233	Biomechanical analysis of a double-bundle posterior cruciate ligament reconstruction. <i>American Journal of Sports Medicine</i> , 2000 , 28, 144-51	6.8	297
232	The human posterior cruciate ligament complex: an interdisciplinary study. Ligament morphology and biomechanical evaluation. <i>American Journal of Sports Medicine</i> , 1995 , 23, 736-45	6.8	295
231	Biomechanics of knee ligaments: injury, healing, and repair. <i>Journal of Biomechanics</i> , 2006 , 39, 1-20	2.9	280
230	Hamstrings--an anterior cruciate ligament protagonist. An in vitro study. <i>American Journal of Sports Medicine</i> , 1993 , 21, 231-7	6.8	274

229	The effects of platelet-derived growth factor-BB on healing of the rabbit medial collateral ligament. An in vivo study. <i>American Journal of Sports Medicine</i> , 1998 , 26, 549-54	6.8	253
228	The forces in the anterior cruciate ligament and knee kinematics during a simulated pivot shift test: A human cadaveric study using robotic technology. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2000 , 16, 633-9	5.4	237
227	The effect of anterior cruciate ligament graft fixation site at the tibia on knee stability: evaluation using a robotic testing system. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 1997 , 13, 177-82	5.4	236
226	Cell orientation determines the alignment of cell-produced collagenous matrix. <i>Journal of Biomechanics</i> , 2003 , 36, 97-102	2.9	220
225	Treatment of the medial collateral ligament injury. II: Structure and function of canine knees in response to differing treatment regimens. <i>American Journal of Sports Medicine</i> , 1987 , 15, 22-9	6.8	217
224	The biomechanical interdependence between the anterior cruciate ligament replacement graft and the medial meniscus. <i>American Journal of Sports Medicine</i> , 2001 , 29, 226-31	6.8	216
223	Tissue engineering of ligament and tendon healing. <i>Clinical Orthopaedics and Related Research</i> , 1999 , S312-23	2.2	212
222	Immobility effects on synovial joints the pathomechanics of joint contracture. <i>Biorheology</i> , 1980 , 17, 95-110	1.7	211
221	The importance of controlled passive mobilization on flexor tendon healing. A biomechanical study. <i>Acta Orthopaedica</i> , 1981 , 52, 615-22		207
220	A biomechanical analysis of rotator cuff deficiency in a cadaveric model. <i>American Journal of Sports Medicine</i> , 1996 , 24, 286-92	6.8	204
219	Biomechanics of knee ligaments. <i>American Journal of Sports Medicine</i> , 1999 , 27, 533-43	6.8	197
218	Effect of capsular injury on acromioclavicular joint mechanics. <i>Journal of Bone and Joint Surgery - Series A</i> , 2001 , 83, 1344-51	5.6	197
217	The effect of axial tibial torque on the function of the anterior cruciate ligament: a biomechanical study of a simulated pivot shift test. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2002 , 18, 394-8	5.4	195
216	The effect of immobilization on collagen turnover in connective tissue: a biochemical-biomechanical correlation. <i>Acta Orthopaedica</i> , 1982 , 53, 325-32		195
215	Enhancement of tendon-bone integration of anterior cruciate ligament grafts with bone morphogenetic protein-2 gene transfer: a histological and biomechanical study. <i>Journal of Bone and Joint Surgery - Series A</i> , 2002 , 84, 1123-31	5.6	187
214	Effect of growth factors on matrix synthesis by ligament fibroblasts. <i>Journal of Orthopaedic Research</i> , 1997 , 15, 18-23	3.8	184
213	Use of patellar tendon autograft for anterior cruciate ligament reconstruction in the rabbit: a long-term histologic and biomechanical study. <i>Journal of Orthopaedic Research</i> , 1989 , 7, 474-85	3.8	183
212	Connective tissue response to immobility. Correlative study of biomechanical and biochemical measurements of normal and immobilized rabbit knees. <i>Arthritis and Rheumatism</i> , 1975 , 18, 257-64		182

211	The use of a universal force-moment sensor to determine in-situ forces in ligaments: a new methodology. <i>Journal of Biomechanical Engineering</i> , 1995 , 117, 1-7	2.1	178
210	The use of robotics technology to study human joint kinematics: a new methodology. <i>Journal of Biomechanical Engineering</i> , 1993 , 115, 211-7	2.1	167
209	The effects of multiple-strand suture methods on the strength and excursion of repaired intrasynovial flexor tendons: a biomechanical study in dogs. <i>Journal of Hand Surgery</i> , 1998 , 23, 97-104	2.6	163
208	Interspecies variation of compressive biomechanical properties of the meniscus. <i>Journal of Biomedical Materials Research Part B</i> , 1995 , 29, 823-8		156
207	The mechanical properties of skeletally mature rabbit anterior cruciate ligament and patellar tendon over a range of strain rates. <i>Journal of Orthopaedic Research</i> , 1993 , 11, 58-67	3.8	154
206	Functional evaluation of the ligaments at the acromioclavicular joint during anteroposterior and superoinferior translation. <i>American Journal of Sports Medicine</i> , 1997 , 25, 858-62	6.8	152
205	A multidisciplinary study of the healing of an intraarticular anterior cruciate ligament graft in a goat model. <i>American Journal of Sports Medicine</i> , 2001 , 29, 620-6	6.8	151
204	An in vitro mechanical and histological study of acute stretching on rabbit tibial nerve. <i>Journal of Orthopaedic Research</i> , 1990 , 8, 694-701	3.8	148
203	The effect of rotator cuff tears on reaction forces at the glenohumeral joint. <i>Journal of Orthopaedic Research</i> , 2002 , 20, 439-46	3.8	147
202	Cyclic mechanical stretching of human tendon fibroblasts increases the production of prostaglandin E2 and levels of cyclooxygenase expression: a novel in vitro model study. <i>Connective Tissue Research</i> , 2003 , 44, 128-33	3.3	143
201	Treatment of the medial collateral ligament injury. I: The importance of anterior cruciate ligament on the varus-valgus knee laxity. <i>American Journal of Sports Medicine</i> , 1987 , 15, 15-21	6.8	143
200	Flexor tendon repair. <i>Journal of Orthopaedic Research</i> , 1986 , 4, 119-28	3.8	142
199	Revolutionizing orthopaedic biomaterials: The potential of biodegradable and bioresorbable magnesium-based materials for functional tissue engineering. <i>Journal of Biomechanics</i> , 2014 , 47, 1979-86	2.9	137
198	Tensile properties of the medial collateral ligament as a function of age. <i>Journal of Orthopaedic Research</i> , 1986 , 4, 133-41	3.8	137
197	Importance of tibial slope for stability of the posterior cruciate ligament deficient knee. <i>American Journal of Sports Medicine</i> , 2007 , 35, 1443-9	6.8	135
196	Injury and repair of ligaments and tendons. <i>Annual Review of Biomedical Engineering</i> , 2000 , 2, 83-118	12	135
195	The effects of strain rate on the properties of the medial collateral ligament in skeletally immature and mature rabbits: a biomechanical and histological study. <i>Journal of Orthopaedic Research</i> , 1990 , 8, 712-21	3.8	135
194	On the viscoelastic properties of the anteromedial bundle of the anterior cruciate ligament. <i>Journal of Biomechanics</i> , 1993 , 26, 447-52	2.9	134

193	The effects of refreezing on the viscoelastic and tensile properties of ligaments. <i>Journal of Biomechanics</i> , 2006 , 39, 1153-7	2.9	129
192	Healing and repair of ligament injuries in the knee. <i>Journal of the American Academy of Orthopaedic Surgeons, The</i> , 2000 , 8, 364-72	4.5	126
191	Determination of the in situ forces in the human posterior cruciate ligament using robotic technology. A cadaveric study. <i>American Journal of Sports Medicine</i> , 1998 , 26, 395-401	6.8	119
190	Determination of the in situ loads on the human anterior cruciate ligament. <i>Journal of Orthopaedic Research</i> , 1993 , 11, 686-95	3.8	115
189	A functional comparison of animal anterior cruciate ligament models to the human anterior cruciate ligament. <i>Annals of Biomedical Engineering</i> , 1998 , 26, 345-52	4.7	114
188	An improved method to analyze the stress relaxation of ligaments following a finite ramp time based on the quasi-linear viscoelastic theory. <i>Journal of Biomechanical Engineering</i> , 2004 , 126, 92-7	2.1	114
187	A Comparison of the Physical Behavior of Normal Articular Cartilage and the Arthroplasty Surface. <i>Journal of Bone and Joint Surgery - Series A</i> , 1972 , 54, 147-160	5.6	113
186	Evaluation of a new injury model to study medial collateral ligament healing: primary repair versus nonoperative treatment. <i>Journal of Orthopaedic Research</i> , 1991 , 9, 516-28	3.8	112
185	A new method for determining cross-sectional shape and area of soft tissues. <i>Journal of Biomechanical Engineering</i> , 1988 , 110, 110-4	2.1	112
184	A quantitative analysis of valgus torque on the ACL: a human cadaveric study. <i>Journal of Orthopaedic Research</i> , 2003 , 21, 1107-12	3.8	110
183	The effects of a popliteus muscle load on in situ forces in the posterior cruciate ligament and on knee kinematics. A human cadaveric study. <i>American Journal of Sports Medicine</i> , 1998 , 26, 669-73	6.8	110
182	Inflammatory response of human tendon fibroblasts to cyclic mechanical stretching. <i>American Journal of Sports Medicine</i> , 2004 , 32, 435-40	6.8	109
181	The use of porcine small intestinal submucosa to enhance the healing of the medial collateral ligament--a functional tissue engineering study in rabbits. <i>Journal of Orthopaedic Research</i> , 2004 , 22, 214-20	3.8	107
180	A three-dimensional finite element model of the human anterior cruciate ligament: a computational analysis with experimental validation. <i>Journal of Biomechanics</i> , 2004 , 37, 383-90	2.9	105
179	In-situ force in the medial and lateral structures of intact and ACL-deficient knees. <i>Journal of Orthopaedic Science</i> , 2000 , 5, 567-71	1.6	102
178	Forces and moments in six-DOF at the human knee joint: Mathematical description for control. <i>Journal of Biomechanics</i> , 1996 , 29, 1577-1585	2.9	101
177	The use of a laser micrometer system to determine the cross-sectional shape and area of ligaments: a comparative study with two existing methods. <i>Journal of Biomechanical Engineering</i> , 1990 , 112, 426-31 ^{2.1}	2.1	101
176	Biology and Biomechanics of the Anterior Cruciate Ligament. <i>Clinics in Sports Medicine</i> , 1993 , 12, 637-670.6	6.6	101

175	Effect of combined axial compressive and anterior tibial loads on in situ forces in the anterior cruciate ligament: a porcine study. <i>Journal of Orthopaedic Research</i> , 1998 , 16, 122-7	3.8	100
174	Shoulder muscle forces and tendon excursions during glenohumeral abduction in the scapular plane. <i>Journal of Shoulder and Elbow Surgery</i> , 1995 , 4, 199-208	4.3	100
173	Influences of flexor sheath continuity and early motion on tendon healing in dogs. <i>Journal of Hand Surgery</i> , 1990 , 15, 69-77	2.6	92
172	The effects of frequency and duration of controlled passive mobilization on tendon healing. <i>Journal of Orthopaedic Research</i> , 1991 , 9, 705-13	3.8	91
171	The effects of increased tension on healing medical collateral ligaments. <i>American Journal of Sports Medicine</i> , 1991 , 19, 347-54	6.8	88
170	Mechanical behavior of two hamstring graft constructs for reconstruction of the anterior cruciate ligament. <i>Journal of Orthopaedic Research</i> , 2000 , 18, 456-61	3.8	86
169	Tensile properties of the superior glenohumeral and coracohumeral ligaments. <i>Journal of Shoulder and Elbow Surgery</i> , 1996 , 5, 249-54	4.3	85
168	In situ forces in the posterolateral structures of the knee under posterior tibial loading in the intact and posterior cruciate ligament-deficient knee. <i>Journal of Orthopaedic Research</i> , 1998 , 16, 675-81	3.8	84
167	Differences in torsional joint stiffness of the knee between genders: a human cadaveric study. <i>American Journal of Sports Medicine</i> , 2006 , 34, 765-70	6.8	83
166	Biomechanical function of the human anterior cruciate ligament. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 1994 , 10, 140-7	5.4	79
165	Type V collagen is increased during rabbit medial collateral ligament healing. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2000 , 8, 281-5	5.5	78
164	In situ force distribution in the glenohumeral joint capsule during anterior-posterior loading. <i>Journal of Orthopaedic Research</i> , 1999 , 17, 769-76	3.8	78
163	The effect of soft-tissue graft fixation in anterior cruciate ligament reconstruction on graft-tunnel motion under anterior tibial loading. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2002 , 18, 960-7	5.4	76
162	Biomechanics and anterior cruciate ligament reconstruction. <i>Journal of Orthopaedic Surgery and Research</i> , 2006 , 1, 2	2.8	75
161	A new dynamic testing apparatus to study glenohumeral joint motion. <i>Journal of Biomechanics</i> , 1995 , 28, 869-74	2.9	75
160	A comparative evaluation of the mechanical properties of the rabbit medial collateral and anterior cruciate ligaments. <i>Journal of Biomechanics</i> , 1992 , 25, 377-86	2.9	75
159	Use of robotic technology for diarthrodial joint research. <i>Journal of Science and Medicine in Sport</i> , 1999 , 2, 283-97	4.4	74
158	In vitro biomechanical analysis of suture methods for flexor tendon repair. <i>Journal of Orthopaedic Research</i> , 1993 , 11, 603-11	3.8	74

157	Tensile properties of the interosseous membrane of the human forearm. <i>Journal of Orthopaedic Research</i> , 1996 , 14, 842-5	3.8	73
156	Gene expression by fibroblasts seeded on small intestinal submucosa and subjected to cyclic stretching. <i>Tissue Engineering</i> , 2007 , 13, 1313-23		72
155	The effects of multiple freeze-thaw cycles on the biomechanical properties of the human bone-patellar tendon-bone allograft. <i>Journal of Orthopaedic Research</i> , 2011 , 29, 1193-8	3.8	71
154	Experimental investigation of reaction forces at the glenohumeral joint during active abduction. <i>Journal of Shoulder and Elbow Surgery</i> , 2000 , 9, 409-17	4.3	71
153	Role of the forearm interosseous ligament: is it more than just longitudinal load transfer?. <i>Journal of Hand Surgery</i> , 2000 , 25, 683-8	2.6	71
152	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. <i>Journal of Orthopaedic Research</i> , 1999 , 17, 37-42	3.8	71
151	Morphologic and biomechanical comparison of tendons used as free grafts. <i>Journal of Hand Surgery</i> , 1993 , 18, 76-82	2.6	71
150	Biomechanics of knee ligament healing, repair and reconstruction. <i>Journal of Biomechanics</i> , 1997 , 30, 431-9	2.9	70
149	Biomechanical comparison of tibial inlay versus transtibial techniques for posterior cruciate ligament reconstruction: analysis of knee kinematics and graft in situ forces. <i>American Journal of Sports Medicine</i> , 2004 , 32, 587-93	6.8	70
148	Anterior cruciate ligament tunnel placement: Comparison of insertion site anatomy with the guidelines of a computer-assisted surgical system. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2003 , 19, 154-60	5.4	70
147	Temperature dependent behavior of the canine medial collateral ligament. <i>Journal of Biomechanical Engineering</i> , 1987 , 109, 68-71	2.1	70
146	The effect of initial graft tension on the biomechanical properties of a healing ACL replacement graft: a study in goats. <i>Journal of Orthopaedic Research</i> , 2003 , 21, 708-15	3.8	69
145	Role of biomechanics in the understanding of normal, injured, and healing ligaments and tendons. <i>BMC Sports Science, Medicine and Rehabilitation</i> , 2009 , 1, 9	2.4	66
144	Effects of knee flexion angles for graft fixation on force distribution in double-bundle anterior cruciate ligament grafts. <i>American Journal of Sports Medicine</i> , 2006 , 34, 577-85	6.8	66
143	Biomechanics of Knee Ligaments. <i>Journal of Bone and Joint Surgery - Series A</i> , 1993 , 75, 1716-1727	5.6	65
142	Aging and sex-related changes in the biomechanical properties of the rabbit medial collateral ligament. <i>Mechanisms of Ageing and Development</i> , 1990 , 56, 129-42	5.6	64
141	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. <i>American Journal of Sports Medicine</i> , 2000 , 28, 460-5	6.8	63
140	Cytokine-induced tendinitis: a preliminary study in rabbits. <i>Journal of Orthopaedic Research</i> , 1999 , 17, 168-77	3.8	62

139	Effect of the iliotibial band on knee biomechanics during a simulated pivot shift test. <i>Journal of Orthopaedic Research</i> , 2006 , 24, 967-73	3.8	61
138	Evaluation of the effect of joint constraints on the in situ force distribution in the anterior cruciate ligament. <i>Journal of Orthopaedic Research</i> , 1997 , 15, 278-84	3.8	59
137	Long-term effects of porcine small intestine submucosa on the healing of medial collateral ligament: a functional tissue engineering study. <i>Journal of Orthopaedic Research</i> , 2006 , 24, 811-9	3.8	59
136	Effects of cell seeding and cyclic stretch on the fiber remodeling in an extracellular matrix-derived bioscaffold. <i>Tissue Engineering - Part A</i> , 2009 , 15, 957-63	3.9	58
135	Interaction between the ACL graft and MCL in a combined ACL+MCL knee injury using a goat model. <i>Acta Orthopaedica</i> , 2000 , 71, 387-93		58
134	Potential of healing a transected anterior cruciate ligament with genetically modified extracellular matrix bioscaffolds in a goat model. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2012 , 20, 1357-65	5.5	56
133	Translation from research to applications. <i>Tissue Engineering</i> , 2006 , 12, 3341-64		56
132	The effects of age on rabbit MCL fibroblast matrix synthesis in response to TGF-beta 1 or EGF. <i>Mechanisms of Ageing and Development</i> , 1997 , 97, 121-30	5.6	55
131	Fiber kinematics of small intestinal submucosa under biaxial and uniaxial stretch. <i>Journal of Biomechanical Engineering</i> , 2006 , 128, 890-8	2.1	54
130	A rat model to study the structural properties of the vagina and its supportive tissues. <i>American Journal of Obstetrics and Gynecology</i> , 2005 , 192, 80-8	6.4	54
129	The position of the tibia during graft fixation affects knee kinematics and graft forces for anterior cruciate ligament reconstruction. <i>American Journal of Sports Medicine</i> , 2001 , 29, 771-6	6.8	54
128	Collagens in an adult bovine medial collateral ligament: immunofluorescence localization by confocal microscopy reveals that type XIV collagen predominates at the ligament-bone junction. <i>Matrix Biology</i> , 1995 , 14, 743-51	11.4	54
127	Knee kinematic profiles during drop landings: a biplane fluoroscopy study. <i>Medicine and Science in Sports and Exercise</i> , 2011 , 43, 533-41	1.2	53
126	Measurements of tibiofemoral kinematics during soft and stiff drop landings using biplane fluoroscopy. <i>American Journal of Sports Medicine</i> , 2011 , 39, 1714-22	6.8	53
125	An evaluation of the quasi-linear viscoelastic properties of the healing medial collateral ligament in a goat model. <i>Annals of Biomedical Engineering</i> , 2004 , 32, 329-35	4.7	53
124	Perichondrial autograft for articular cartilage. Shear modulus of neocartilage studied in rabbits. <i>Acta Orthopaedica</i> , 1987 , 58, 510-5		53
123	Fate of donor bone marrow cells in medial collateral ligament after simulated autologous transplantation. <i>Microscopy Research and Technique</i> , 2002 , 58, 39-44	2.8	52
122	A rigid-body method for finding centers of rotation and angular displacements of planar joint motion. <i>Journal of Biomechanics</i> , 1987 , 20, 715-21	2.9	51

121	Precision of ACL Tunnel Placement Using Traditional and Robotic Techniques. <i>Computer Aided Surgery</i> , 2001 , 6, 270-278		50
120	Biomechanical and biochemical changes in the periarticular connective tissue during contracture development in the immobilized rabbit knee. <i>Connective Tissue Research</i> , 1974 , 2, 315-23	3.3	49
119	Healing of the medial collateral ligament following a triad injury: a biomechanical and histological study of the knee in rabbits. <i>Journal of Orthopaedic Research</i> , 1992 , 10, 485-95	3.8	48
118	Viscoelastic shear properties of the equine medial meniscus. <i>Journal of Orthopaedic Research</i> , 1991 , 9, 550-8	3.8	47
117	Current Concepts for Rehabilitation Following Anterior Cruciate Ligament Reconstruction. <i>Journal of Orthopaedic and Sports Physical Therapy</i> , 1992 , 15, 270-8	4.2	47
116	Biomechanical evaluation of the quadriceps tendon autograft for anterior cruciate ligament reconstruction: a cadaveric study. <i>American Journal of Sports Medicine</i> , 2014 , 42, 723-30	6.8	46
115	In vivo tibiofemoral kinematics during 4 functional tasks of increasing demand using biplane fluoroscopy. <i>American Journal of Sports Medicine</i> , 2012 , 40, 170-8	6.8	46
114	A structural model to describe the nonlinear stress-strain behavior for parallel-fibered collagenous tissues. <i>Journal of Biomechanical Engineering</i> , 1989 , 111, 361-3	2.1	46
113	Stress relaxation of a peripheral nerve. <i>Journal of Hand Surgery</i> , 1991 , 16, 859-63	2.6	46
112	Biomechanics of the ACL: Measurements of in situ force in the ACL and knee kinematics. <i>Knee</i> , 1998 , 5, 267-288	2.6	45
111	New experimental procedures to evaluate the biomechanical properties of healing canine medial collateral ligaments. <i>Journal of Orthopaedic Research</i> , 1987 , 5, 425-32	3.8	45
110	Use of a bioscaffold to improve healing of a patellar tendon defect after graft harvest for ACL reconstruction: A study in rabbits. <i>Journal of Orthopaedic Research</i> , 2008 , 26, 255-63	3.8	44
109	Immobilization of the knee joint alters the mechanical and ultrastructural properties of the rabbit anterior cruciate ligament. <i>Journal of Orthopaedic Research</i> , 1995 , 13, 191-200	3.8	44
108	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. <i>Journal of Orthopaedic Research</i> , 1995 , 13, 442-9	3.8	44
107	Cartilage resurfacing of the rabbit knee. The use of an allogeneic demineralized bone matrix-autogeneic perichondrium composite implant. <i>Acta Orthopaedica</i> , 1990 , 61, 201-6		44
106	BIOMECHANICAL PROPERTIES OF PERIPHERAL NERVES. <i>Hand Clinics</i> , 1996 , 12, 195-204	1.7	44
105	Medial collateral knee ligament healing. Combined medial collateral and anterior cruciate ligament injuries studied in rabbits. <i>Acta Orthopaedica</i> , 1997 , 68, 142-8		43
104	Treatment with bioscaffold enhances the the fibril morphology and the collagen composition of healing medial collateral ligament in rabbits. <i>Tissue Engineering</i> , 2006 , 12, 159-66		43

103	Tensile properties of an anterior cruciate ligament graft after bone-patellar tendon-bone press-fit fixation. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2003 , 11, 68-74	5.5	43
102	In situ forces in the human posterior cruciate ligament in response to muscle loads: a cadaveric study. <i>Journal of Orthopaedic Research</i> , 1999 , 17, 763-8	3.8	43
101	The physiological basis for application of controlled stress in the rehabilitation of flexor tendon injuries. <i>Journal of Hand Therapy</i> , 1989 , 2, 66-70	1.6	43
100	Evaluation of knee stability with use of a robotic system. <i>Journal of Bone and Joint Surgery - Series A</i> , 2009 , 91 Suppl 1, 78-84	5.6	41
99	Biomechanical evaluation of using one hamstrings tendon for ACL reconstruction: a human cadaveric study. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2010 , 18, 11-9	5.5	37
98	Estimation of ACL forces by reproducing knee kinematics between sets of knees: A novel non-invasive methodology. <i>Journal of Biomechanics</i> , 2006 , 39, 2371-7	2.9	37
97	Biomechanics of initial tibial fixation in posterior cruciate ligament reconstruction. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2005 , 21, 1164-71	5.4	37
96	Structure and function of the healing medial collateral ligament in a goat model. <i>Annals of Biomedical Engineering</i> , 2001 , 29, 173-80	4.7	37
95	Response of donor and recipient cells after transplantation of cells to the ligament and tendon. <i>Microscopy Research and Technique</i> , 2002 , 58, 34-8	2.8	36
94	Medial collateral ligament healing one year after a concurrent medial collateral ligament and anterior cruciate ligament injury: an interdisciplinary study in rabbits. <i>Journal of Orthopaedic Research</i> , 1996 , 14, 223-7	3.8	36
93	Effects of a bioscaffold on collagen fibrillogenesis in healing medial collateral ligament in rabbits. <i>Journal of Orthopaedic Research</i> , 2008 , 26, 1098-104	3.8	35
92	Determination of a safe range of knee flexion angles for fixation of the grafts in double-bundle anterior cruciate ligament reconstruction: a human cadaveric study. <i>American Journal of Sports Medicine</i> , 2007 , 35, 1513-20	6.8	35
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