

Woo, Sl-Y

List of Publications by Year in descending order

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331
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31,174
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10065
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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. | 4.2 | 1,049 |
| 2 | Biomechanical Analysis of an Anatomic Anterior Cruciate Ligament Reconstruction. American Journal of Sports Medicine, 2002, 30, 660-666. | 4.2 | 867 |
| 3 | Effects of Increasing Tibial Slope on the Biomechanics of the Knee. American Journal of Sports Medicine, 2004, 32, 376-382. | 4.2 | 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. | 2.7 | 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. | 2.3 | 553 |
| 6 | Effects of postmortem storage by freezing on ligament tensile behavior. Journal of Biomechanics, 1986, 19, 399-404. | 2.1 | 512 |
| 7 | In situ forces in the anterior cruciate ligament and its bundles in response to anterior tibial loads. Journal of Orthopaedic Research, 1997, 15, 285-293. | 2.3 | 498 |
| 8 | The importance of quadriceps and hamstring muscle loading on knee kinematics and in-situ forces in the ACL. Journal of Biomechanics, 1999, 32, 395-400. | 2.1 | 474 |
| 9 | Quantitative Analysis of Human Cruciate Ligament Insertions. Arthroscopy - Journal of Arthroscopic and Related Surgery, 1999, 15, 741-749. | 2.7 | 474 |
| 10 | 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. | 3.0 | 435 |
| 11 | Mechanical properties of tendons and ligaments. Biorheology, 1982, 19, 397-408. | 0.4 | 365 |
| 12 | Importance of the medial meniscus in the anterior cruciate ligament-deficient knee. Journal of Orthopaedic Research, 2000, 18, 109-115. | 2.3 | 361 |
| 13 | Effects of early intermittent passive mobilization on healing canine flexor tendons. Journal of Hand Surgery, 1982, 7, 170-175. | 1.6 | 357 |
| 14 | Medial collateral ligament healing. American Journal of Sports Medicine, 1983, 11, 379-389. | 4.2 | 357 |
| 15 | Tensile and viscoelastic properties of human patellar tendon. Journal of Orthopaedic Research, 1994, 12, 796-803. | 2.3 | 348 |
| 16 | Biomechanics of knee ligaments: injury, healing, and repair. Journal of Biomechanics, 2006, 39, 1-20. | 2.1 | 344 |
| 17 | Knee Stability and Graft Function after Anterior Cruciate Ligament Reconstruction. American Journal of Sports Medicine, 2004, 32, 1825-1832. | 4.2 | 342 |
| 18 | The Human Posterior Cruciate Ligament Complex: An Interdisciplinary Study. American Journal of Sports Medicine, 1995, 23, 736-745. | 4.2 | 333 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Biomechanical Analysis of a Posterior Cruciate Ligament Reconstruction. American Journal of Sports Medicine, 2000, 28, 32-39. | 4.2 | 324 |
| 20 | Biomechanical Analysis of a Double-Bundle Posterior Cruciate Ligament Reconstruction. American Journal of Sports Medicine, 2000, 28, 144-151. | 4.2 | 320 |
| 21 | Hamstringsâ€™an anterior cruciate ligament protagonist. American Journal of Sports Medicine, 1993, 21, 231-237. | 4.2 | 306 |
| 22 | The Biomechanical and Biochemical Properties of Swine Tendons â€™ Long Term Effects of Exercise on the Digital Extensors. Connective Tissue Research, 1980, 7, 177-183. | 2.3 | 301 |
| 23 | Nonlinear material properties of intact cornea and sclera. Experimental Eye Research, 1972, 14, 29-39. | 2.6 | 295 |
| 24 | 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. | 4.2 | 271 |
| 25 | A standardized method for assessment of elbow function. Journal of Shoulder and Elbow Surgery, 1999, 8, 351-354. | 2.6 | 268 |
| 26 | 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. | 2.7 | 265 |
| 27 | The Biomechanical Interdependence between the Anterior Cruciate Ligament Replacement Graft and the Medial Meniscus. American Journal of Sports Medicine, 2001, 29, 226-231. | 4.2 | 259 |
| 28 | 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. | 2.7 | 258 |
| 29 | Measurements of nonhomogeneous, directional mechanical properties of articular cartilage in tension. Journal of Biomechanics, 1976, 9, 785-791. | 2.1 | 257 |
| 30 | A Biomechanical Analysis of Rotator Cuff Deficiency in a Cadaveric Model. American Journal of Sports Medicine, 1996, 24, 286-292. | 4.2 | 252 |
| 31 | A combined robotic/universal force sensor approach to determine in situ forces of knee ligaments. Journal of Biomechanics, 1996, 29, 1357-1360. | 2.1 | 250 |
| 32 | Tissue Engineering of Ligament and Tendon Healing. Clinical Orthopaedics and Related Research, 1999, 367, S312-S323. | 1.5 | 247 |
| 33 | Cell orientation determines the alignment of cell-produced collagenous matrix. Journal of Biomechanics, 2003, 36, 97-102. | 2.1 | 247 |
| 34 | Treatment of the medial collateral ligament injury. American Journal of Sports Medicine, 1987, 15, 22-29. | 4.2 | 242 |
| 35 | The Time and History-Dependent Viscoelastic Properties of the Canine Medial Collateral Ligament. Journal of Biomechanical Engineering, 1981, 103, 293-298. | 1.3 | 240 |
| 36 | Immobility effects on synovial joints. The pathomechanics of joint contracture1. Biorheology, 1980, 17, 95-110. | 0.4 | 234 |

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|----|--|-----|-----------|
| 37 | Effect of Capsular Injury on Acromioclavicular Joint Mechanics. Journal of Bone and Joint Surgery - Series A, 2001, 83, 1344-1351. | 3.0 | 232 |
| 38 | The Importance of Controlled Passive Mobilization on Flexor Tendon Healing: A Biomechanical Study. Acta Orthopaedica, 1981, 52, 615-622. | 1.4 | 230 |
| 39 | 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. | 3.0 | 225 |
| 40 | Biomechanics of Knee Ligaments. American Journal of Sports Medicine, 1999, 27, 533-543. | 4.2 | 223 |
| 41 | The Effect of Immobilization on Collagen Turnover in Connective Tissue: A Biochemical-Biomechanical Correlation. Acta Orthopaedica, 1982, 53, 325-332. | 1.4 | 215 |
| 42 | 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. | 2.3 | 212 |
| 43 | 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. | 2.7 | 210 |
| 44 | Effect of growth factors on matrix synthesis by ligament fibroblasts. Journal of Orthopaedic Research, 1997, 15, 18-23. | 2.3 | 207 |
| 45 | 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. | 1.3 | 204 |
| 46 | The effect of rotator cuff tears on reaction forces at the glenohumeral joint. Journal of Orthopaedic Research, 2002, 20, 439-446. | 2.3 | 198 |
| 47 | Connective tissue response to immobility. Arthritis and Rheumatism, 1975, 18, 257-264. | 6.7 | 197 |
| 48 | The Use of Robotics Technology to Study Human Joint Kinematics: A New Methodology. Journal of Biomechanical Engineering, 1993, 115, 211-217. | 1.3 | 187 |
| 49 | Interspecies variation of compressive biomechanical properties of the meniscus. Journal of Biomedical Materials Research Part B, 1995, 29, 823-828. | 3.1 | 183 |
| 50 | 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. | 1.6 | 182 |
| 51 | An in vitro mechanical and histological study of acute stretching on rabbit tibial nerve. Journal of Orthopaedic Research, 1990, 8, 694-701. | 2.3 | 178 |
| 52 | Collagen Cross-Linking Alterations in Joint Contractures: Changes in the Reducible Cross-Links in Periarticular Connective Tissue Collagen After Nine Weeks of Immobilization. Connective Tissue Research, 1977, 5, 15-19. | 2.3 | 176 |
| 53 | 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. | 2.3 | 176 |
| 54 | Effect of growth factors on the proliferation of fibroblasts from the medial collateral and anterior cruciate ligaments. Journal of Orthopaedic Research, 1995, 13, 184-190. | 2.3 | 175 |

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|----|--|------|-----------|
| 55 | 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. | 4.2 | 174 |
| 56 | Functional Evaluation of the Ligaments at the Acromioclavicular Joint during Anteroposterior and Superoinferior Translation. American Journal of Sports Medicine, 1997, 25, 858-862. | 4.2 | 171 |
| 57 | Importance of Tibial Slope for Stability of the Posterior Cruciate Ligamentâ€”Deficient Knee. American Journal of Sports Medicine, 2007, 35, 1443-1449. | 4.2 | 170 |
| 58 | Hamstring graft motion in the femoral bone tunnel when using titanium button/ polyester tape fixation. Knee Surgery, Sports Traumatology, Arthroscopy, 1999, 7, 215-219. | 4.2 | 169 |
| 59 | Revolutionizing orthopaedic biomaterials: The potential of biodegradable and bioresorbable magnesium-based materials for functional tissue engineering. Journal of Biomechanics, 2014, 47, 1979-1986. | 2.1 | 169 |
| 60 | Flexor tendon repair. Journal of Orthopaedic Research, 1986, 4, 119-128. | 2.3 | 166 |
| 61 | 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. | 2.3 | 163 |
| 62 | Tensile properties of the medial collateral ligament as a function of age. Journal of Orthopaedic Research, 1986, 4, 133-141. | 2.3 | 158 |
| 63 | Treatment of the medial collateral ligament injury. American Journal of Sports Medicine, 1987, 15, 15-21. | 4.2 | 158 |
| 64 | 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. | 2.3 | 158 |
| 65 | Injury and Repair of Ligaments and Tendons. Annual Review of Biomedical Engineering, 2000, 2, 83-118. | 12.3 | 158 |
| 66 | Healing and Repair of Ligament Injuries in the Knee. Journal of the American Academy of Orthopaedic Surgeons, The, 2000, 8, 364-372. | 2.5 | 156 |
| 67 | On the viscoelastic properties of the anteromedial bundle of the anterior cruciate ligament. Journal of Biomechanics, 1993, 26, 447-452. | 2.1 | 149 |
| 68 | The effects of refreezing on the viscoelastic and tensile properties of ligaments. Journal of Biomechanics, 2006, 39, 1153-1157. | 2.1 | 147 |
| 69 | 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. | 2.1 | 136 |
| 70 | 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. | 1.3 | 135 |
| 71 | Determination of their in situ forces and force distribution within the human anterior cruciate ligament. Annals of Biomedical Engineering, 1995, 23, 467-474. | 2.5 | 134 |
| 72 | Determination of the In Situ Forces in the Human Posterior Cruciate Ligament Using Robotic Technology. American Journal of Sports Medicine, 1998, 26, 395-401. | 4.2 | 134 |

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| 73 | A Functional Comparison of Animal Anterior Cruciate Ligament Models to the Human Anterior Cruciate Ligament. <i>Annals of Biomedical Engineering</i> , 1998, 26, 345-352. | 2.5 | 131 |
| 74 | A quantitative analysis of valgus torque on the ACL: A human cadaveric study. <i>Journal of Orthopaedic Research</i> , 2003, 21, 1107-1112. | 2.3 | 130 |
| 75 | 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. | 3.0 | 130 |
| 76 | Effect of Growth Factors on the Proliferation of Ligament Fibroblasts from Skeletally Mature Rabbits. <i>Connective Tissue Research</i> , 1997, 36, 1-8. | 2.3 | 128 |
| 77 | Determination of the in situ loads on the human anterior cruciate ligament. <i>Journal of Orthopaedic Research</i> , 1993, 11, 686-695. | 2.3 | 126 |
| 78 | The Effects of Rigidity of Internal Fixation Plates on Long Bone Remodeling: A Bio Mechanical and Quantitative Histological Study. <i>Acta Orthopaedica</i> , 1976, 47, 241-249. | 1.4 | 124 |
| 79 | Injury and repair of the musculoskeletal soft tissues. Savannah, Georgia, June 18-20, 1987. <i>Journal of Orthopaedic Research</i> , 1988, 6, 907-931. | 2.3 | 123 |
| 80 | Inflammatory Response of Human Tendon Fibroblasts to Cyclic Mechanical Stretching. <i>American Journal of Sports Medicine</i> , 2004, 32, 435-440. | 4.2 | 122 |
| 81 | 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, 516-528. | 2.3 | 121 |
| 82 | 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. | 2.6 | 121 |
| 83 | Relative contribution of the ACL, MCL, and bony contact to the anterior stability of the knee. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 1999, 7, 93-97. | 4.2 | 121 |
| 84 | A New Method for Determining Cross-Sectional Shape and Area of Soft Tissues. <i>Journal of Biomechanical Engineering</i> , 1988, 110, 110-114. | 1.3 | 119 |
| 85 | 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, 122-127. | 2.3 | 117 |
| 86 | The Effects of a Popliteus Muscle Load on In Situ Forces in the Posterior Cruciate Ligament and on Knee Kinematics. <i>American Journal of Sports Medicine</i> , 1998, 26, 669-673. | 4.2 | 117 |
| 87 | 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, 214-220. | 2.3 | 116 |
| 88 | Forces and moments in six-DOF at the human knee joint: Mathematical description for control. <i>Journal of Biomechanics</i> , 1996, 29, 1577-1585. | 2.1 | 114 |
| 89 | In-situ force in the medial and lateral structures of intact and ACL-deficient knees. <i>Journal of Orthopaedic Science</i> , 2000, 5, 567-571. | 1.1 | 114 |
| 90 | Biology and Biomechanics of the Anterior Cruciate Ligament. <i>Clinics in Sports Medicine</i> , 1993, 12, 637-670. | 1.8 | 114 |

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| 91 | 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. | 1.3 | 106 |
| 92 | Screw Fixation in the Human Sacrum. Spine, 1992, 17, S196-S203. | 2.0 | 104 |
| 93 | The effects of frequency and duration of controlled passive mobilization on tendon healing. Journal of Orthopaedic Research, 1991, 9, 705-713. | 2.3 | 102 |
| 94 | Influences of flexor sheath continuity and early motion on tendon healing in dogs. Journal of Hand Surgery, 1990, 15, 69-77. | 1.6 | 100 |
| 95 | Large deformation nonhomogeneous and directional properties of articular cartilage in uniaxial tension. Journal of Biomechanics, 1979, 12, 437-446. | 2.1 | 99 |
| 96 | Mechanical behavior of two hamstring graft constructs for reconstruction of the anterior cruciate ligament. Journal of Orthopaedic Research, 2000, 18, 456-461. | 2.3 | 96 |
| 97 | The effects of increased tension on healing medial collateral ligaments. American Journal of Sports Medicine, 1991, 19, 347-354. | 4.2 | 95 |
| 98 | Biomechanical function of the human anterior cruciate ligament. Arthroscopy - Journal of Arthroscopic and Related Surgery, 1994, 10, 140-147. | 2.7 | 93 |
| 99 | In situ force distribution in the glenohumeral joint capsule during anterior-posterior loading. Journal of Orthopaedic Research, 1999, 17, 769-776. | 2.3 | 93 |
| 100 | The effects of multiple freeze-thaw cycles on the biomechanical properties of the human bone-patellar tendon-bone allograft. Journal of Orthopaedic Research, 2011, 29, 1193-1198. | 2.3 | 93 |
| 101 | Role of fascia in maintenance of muscle tension and pressure. Journal of Applied Physiology, 1981, 51, 317-320. | 2.5 | 92 |
| 102 | Tensile properties of the interosseous membrane of the human forearm. Journal of Orthopaedic Research, 1996, 14, 842-845. | 2.3 | 92 |
| 103 | Tensile properties of the superior glenohumeral and coracohumeral ligaments. Journal of Shoulder and Elbow Surgery, 1996, 5, 249-254. | 2.6 | 91 |
| 104 | In situ forces 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. | 2.3 | 91 |
| 105 | Biomechanics and anterior cruciate ligament reconstruction. Journal of Orthopaedic Surgery and Research, 2006, 1, 2. | 2.3 | 91 |
| 106 | Comparative study of the size and shape of human anterior and posterior cruciate ligaments. Journal of Orthopaedic Research, 1995, 13, 429-434. | 2.3 | 89 |
| 107 | Type V collagen is increased during rabbit medial collateral ligament healing. Knee Surgery, Sports Traumatology, Arthroscopy, 2000, 8, 281-285. | 4.2 | 89 |
| 108 | Role of biomechanics in the understanding of normal, injured, and healing ligaments and tendons. BMC Sports Science, Medicine and Rehabilitation, 2009, 1, 9. | 1.7 | 89 |

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| 109 | Quantitative histological evaluation of early fracture healing of cortical bones immobilized by stainless steel and composite plates. <i>Calcified Tissue Research</i> , 1975, 19, 27-37. | 1.3 | 88 |
| 110 | A new dynamic testing apparatus to study glenohumeral joint motion. <i>Journal of Biomechanics</i> , 1995, 28, 869-874. | 2.1 | 88 |
| 111 | Experimental investigation of reaction forces at the glenohumeral joint during active abduction. <i>Journal of Shoulder and Elbow Surgery</i> , 2000, 9, 409-417. | 2.6 | 88 |
| 112 | A comparative evaluation of the mechanical properties of the rabbit medial collateral and anterior cruciate ligaments. <i>Journal of Biomechanics</i> , 1992, 25, 377-386. | 2.1 | 87 |
| 113 | Differences in Torsional Joint Stiffness of the Knee between Genders. <i>American Journal of Sports Medicine</i> , 2006, 34, 765-770. | 4.2 | 87 |
| 114 | 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, 960-967. | 2.7 | 86 |
| 115 | In vitro biomechanical analysis of suture methods for flexor tendon repair. <i>Journal of Orthopaedic Research</i> , 1993, 11, 603-611. | 2.3 | 84 |
| 116 | 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. | 2.3 | 83 |
| 117 | Aging and sex-related changes in the biomechanical properties of the rabbit medial collateral ligament. <i>Mechanisms of Ageing and Development</i> , 1990, 56, 129-142. | 4.6 | 82 |
| 118 | Morphologic and biomechanical comparison of tendons used as free grafts. <i>Journal of Hand Surgery</i> , 1993, 18, 76-82. | 1.6 | 82 |
| 119 | Biomechanics of Knee Ligaments. <i>Journal of Bone and Joint Surgery - Series A</i> , 1993, 75, 1716-1727. | 3.0 | 82 |
| 120 | Effects of knee flexion on the structural properties of the rabbit femur-anterior cruciate ligament-tibia complex (FATC). <i>Journal of Biomechanics</i> , 1987, 20, 557-563. | 2.1 | 81 |
| 121 | Dynamic behavior of a biphasic cartilage model under cyclic compressive loading. <i>Journal of Biomechanics</i> , 1995, 28, 357-364. | 2.1 | 81 |
| 122 | Role of the forearm interosseous ligament: Is it more than just longitudinal load transfer?. <i>Journal of Hand Surgery</i> , 2000, 25, 683-688. | 1.6 | 81 |
| 123 | Biomechanics of knee ligament healing, repair and reconstruction. <i>Journal of Biomechanics</i> , 1997, 30, 431-439. | 2.1 | 80 |
| 124 | Use of robotic technology for diarthrodial joint research. <i>Journal of Science and Medicine in Sport</i> , 1999, 2, 283-297. | 1.3 | 79 |
| 125 | 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, 154-160. | 2.7 | 79 |
| 126 | Biomechanical Comparison of Tibial Inlay versus Transtibial Techniques for Posterior Cruciate Ligament Reconstruction. <i>American Journal of Sports Medicine</i> , 2004, 32, 587-593. | 4.2 | 79 |

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| 127 | 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, 708-715. | 2.3 | 78 |
| 128 | Gene Expression by Fibroblasts Seeded on Small Intestinal Submucosa and Subjected to Cyclic Stretching. <i>Tissue Engineering</i> , 2007, 13, 1313-1323. | 4.6 | 78 |
| 129 | Temperature Dependent Behavior of the Canine Medial Collateral Ligament. <i>Journal of Biomechanical Engineering</i> , 1987, 109, 68-71. | 1.3 | 77 |
| 130 | Effects of sectioning the posterolateral structures on knee kinematics and in situ forces in the posterior cruciate ligament. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2000, 8, 93-98. | 4.2 | 76 |
| 131 | Cytokine-induced tendinitis: A preliminary study in rabbits. <i>Journal of Orthopaedic Research</i> , 1999, 17, 168-177. | 2.3 | 71 |
| 132 | Potential application of graphite fiber and methyl methacrylate resin composites as internal fixation plates. <i>Journal of Biomedical Materials Research Part B</i> , 1974, 8, 321-338. | 3.1 | 70 |
| 133 | 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, 460-465. | 4.2 | 70 |
| 134 | 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, 80-88. | 1.3 | 70 |
| 135 | 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, 577-585. | 4.2 | 70 |
| 136 | Mathematical model of the corneo-scleral shell as applied to intraocular pressure-volume relations and applanation tonometry. <i>Annals of Biomedical Engineering</i> , 1972, 1, 87-98. | 2.5 | 67 |
| 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, 811-819. | 2.3 | 67 |
| 138 | Evaluation of the effect of joint constraints on their in situ force distribution in the anterior cruciate ligament. <i>Journal of Orthopaedic Research</i> , 1997, 15, 278-284. | 2.3 | 66 |
| 139 | Effect of the iliotibial band on knee biomechanics during a simulated pivot shift test. <i>Journal of Orthopaedic Research</i> , 2006, 24, 967-973. | 2.3 | 66 |
| 140 | Application of the u-p Finite Element Method to the Study of Articular Cartilage. <i>Journal of Biomechanical Engineering</i> , 1991, 113, 397-403. | 1.3 | 65 |
| 141 | Translation from Research to Applications. <i>Tissue Engineering</i> , 2006, 12, 3341-3364. | 4.6 | 65 |
| 142 | Knee Kinematic Profiles during Drop Landings. <i>Medicine and Science in Sports and Exercise</i> , 2011, 43, 533-541. | 0.4 | 64 |
| 143 | Measurements of Tibiofemoral Kinematics during Soft and Stiff Drop Landings Using Biplane Fluoroscopy. <i>American Journal of Sports Medicine</i> , 2011, 39, 1714-1723. | 4.2 | 63 |
| 144 | Interaction between the ACL graft and MCL in a combined ACL+MCL knee injury using a goat model. <i>Acta Orthopaedica</i> , 2000, 71, 387-393. | 1.4 | 62 |

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|-----|---|-----|-----------|
| 145 | 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, 743-751. | 3.6 | 61 |
| 146 | Engineering the healing of the rabbit medial collateral ligament. <i>Medical and Biological Engineering and Computing</i> , 1998, 36, 359-364. | 2.8 | 61 |
| 147 | A rigid-body method for finding centers of rotation and angular displacements of planar joint motion. <i>Journal of Biomechanics</i> , 1987, 20, 715-721. | 2.1 | 60 |
| 148 | Ultrastructural morphometry of anterior cruciate and medial collateral ligaments: An experimental study in rabbits. <i>Journal of Orthopaedic Research</i> , 1992, 10, 96-103. | 2.3 | 60 |
| 149 | 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, 771-776. | 4.2 | 59 |
| 150 | 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, 329-335. | 2.5 | 59 |
| 151 | Fiber Kinematics of Small Intestinal Submucosa Under Biaxial and Uniaxial Stretch. <i>Journal of Biomechanical Engineering</i> , 2006, 128, 890-898. | 1.3 | 59 |
| 152 | Effects of Cell Seeding and Cyclic Stretch on the Fiber Remodeling in an Extracellular Matrixâ€Derived Bioscaffold. <i>Tissue Engineering - Part A</i> , 2009, 15, 957-963. | 3.1 | 59 |
| 153 | Skull Osteology As It Affects Halo Pin Placement in Children. <i>Journal of Pediatric Orthopaedics</i> , 1986, 6, 434-436. | 1.2 | 58 |
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