

Braden C Fleming

List of Publications by Year in descending order

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203
papers

11,800
citations

17440

63
h-index

31849

101
g-index

208
all docs

208
docs citations

208
times ranked

6297
citing authors

#	ARTICLE	IF	CITATIONS
1	Treatment of Anterior Cruciate Ligament Injuries, Part I. American Journal of Sports Medicine, 2005, 33, 1579-1602.	4.2	458
2	Anterior Cruciate Ligament Strain Behavior During Rehabilitation Exercises In Vivo. American Journal of Sports Medicine, 1995, 23, 24-34.	4.2	395
3	ANTERIOR CRUCIATE LIGAMENT REPLACEMENT: COMPARISON OF BONE-PATELLAR TENDON-BONE GRAFTS WITH TWO-STRAND HAMSTRING GRAFTS. Journal of Bone and Joint Surgery - Series A, 2002, 84, 1503-1513.	3.0	342
4	Anterior cruciate ligament strain in-vivo: A review of previous work. Journal of Biomechanics, 1998, 31, 519-525.	2.1	334
5	The effect of weightbearing and external loading on anterior cruciate ligament strain. Journal of Biomechanics, 2001, 34, 163-170.	2.1	316
6	A comparative anatomical study of the human knee and six animal species. Knee, 2012, 19, 493-499.	1.6	270
7	The Strain Behavior of the Anterior Cruciate Ligament During Squatting and Active Flexion-Extension. American Journal of Sports Medicine, 1997, 25, 823-829.	4.2	237
8	Rehabilitation after Anterior Cruciate Ligament Reconstruction: A Prospective, Randomized, Double-Blind Comparison of Programs Administered over 2 Different Time Intervals. American Journal of Sports Medicine, 2005, 33, 347-359.	4.2	233
9	Treatment of Anterior Cruciate Ligament Injuries, Part 2. American Journal of Sports Medicine, 2005, 33, 1751-1767.	4.2	227
10	The measurement of anterior cruciate ligament strain in vivo. International Orthopaedics, 1992, 16, 1-12.	1.9	226
11	Anterior cruciate ligament reconstruction using quadriceps patellar tendon graft. American Journal of Sports Medicine, 1991, 19, 447-457.	4.2	220
12	Decreased lubricin concentrations and markers of joint inflammation in the synovial fluid of patients with anterior cruciate ligament injury. Arthritis and Rheumatism, 2008, 58, 1707-1715.	6.7	215
13	Role of lubricin and boundary lubrication in the prevention of chondrocyte apoptosis. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 5852-5857.	7.1	187
14	Use of a Bioactive Scaffold to Stimulate Anterior Cruciate Ligament Healing Also Minimizes Posttraumatic Osteoarthritis After Surgery. American Journal of Sports Medicine, 2013, 41, 1762-1770.	4.2	178
15	Animal Models of Osteoarthritis: Challenges of Model Selection and Analysis. AAPS Journal, 2013, 15, 438-446.	4.4	163
16	Collagen-Platelet Composite Enhances Biomechanical and Histologic Healing of the Porcine Anterior Cruciate Ligament. American Journal of Sports Medicine, 2009, 37, 2401-2410.	4.2	159
17	The gastrocnemius muscle is an antagonist of the anterior cruciate ligament. Journal of Orthopaedic Research, 2001, 19, 1178-1184.	2.3	154
18	A Systematic Review of Anterior Cruciate Ligament Reconstruction Rehabilitation – Part II: Open Versus Closed Kinetic Chain Exercises, Neuromuscular Electrical Stimulation, Accelerated Rehabilitation, and Miscellaneous Topics. Journal of Knee Surgery, 2008, 21, 225-234.	1.6	142

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19	In Vivo Measurement of Ligament/Tendon Strains and Forces: A Review. <i>Annals of Biomedical Engineering</i> , 2004, 32, 318-328.	2.5	137
20	The Effect of Functional Knee Bracing on the Anterior Cruciate Ligament in the Weightbearing and Nonweightbearing Knee. <i>American Journal of Sports Medicine</i> , 1997, 25, 353-359.	4.2	128
21	A Systematic Review of Anterior Cruciate Ligament Reconstruction Rehabilitation – Part I: Continuous Passive Motion, Early Weight Bearing, Postoperative Bracing, and Home-Based Rehabilitation. <i>Journal of Knee Surgery</i> , 2008, 21, 217-224.	1.6	126
22	Prevention of cartilage degeneration and restoration of chondroprotection by lubricin tribosupplementation in the rat following anterior cruciate ligament transection. <i>Arthritis and Rheumatism</i> , 2010, 62, 2382-2391.	6.7	126
23	Bridge-Enhanced Anterior Cruciate Ligament Repair Is Not Inferior to Autograft Anterior Cruciate Ligament Reconstruction at 2 Years: Results of a Prospective Randomized Clinical Trial. <i>American Journal of Sports Medicine</i> , 2020, 48, 1305-1315.	4.2	126
24	Collagen-Platelet Composites Improve the Biomechanical Properties of Healing Anterior Cruciate Ligament Grafts in a Porcine Model. <i>American Journal of Sports Medicine</i> , 2009, 37, 1554-1563.	4.2	125
25	Platelet-rich plasma alone is not sufficient to enhance suture repair of the ACL in skeletally immature animals: An in vivo study. <i>Journal of Orthopaedic Research</i> , 2009, 27, 639-645.	2.3	125
26	Activation of Indian hedgehog promotes chondrocyte hypertrophy and upregulation of MMP-13 in human osteoarthritic cartilage. <i>Osteoarthritis and Cartilage</i> , 2012, 20, 755-763.	1.3	123
27	Accelerated Versus Nonaccelerated Rehabilitation After Anterior Cruciate Ligament Reconstruction. <i>American Journal of Sports Medicine</i> , 2011, 39, 2536-2548.	4.2	117
28	The Bridge-Enhanced Anterior Cruciate Ligament Repair (BEAR) Procedure. <i>Orthopaedic Journal of Sports Medicine</i> , 2016, 4, 232596711667217.	1.7	117
29	Strain on the Anterior Cruciate Ligament during Closed Kinetic Chain Exercises. <i>Medicine and Science in Sports and Exercise</i> , 2004, 36, 935-941.	0.4	110
30	Biomechanical Outcomes After Bioenhanced Anterior Cruciate Ligament Repair and Anterior Cruciate Ligament Reconstruction Are Equal in a Porcine Model. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2012, 28, 672-680.	2.7	110
31	Kinematic differences between optical motion capture and biplanar videoradiography during a jump-cut maneuver. <i>Journal of Biomechanics</i> , 2013, 46, 567-573.	2.1	110
32	The Strain Behavior of the Anterior Cruciate Ligament During Bicycling. <i>American Journal of Sports Medicine</i> , 1998, 26, 109-118.	4.2	109
33	In Situ, Noninvasive, T2*-Weighted MRI-Derived Parameters Predict Ex Vivo Structural Properties of an Anterior Cruciate Ligament Reconstruction or Bioenhanced Primary Repair in a Porcine Model. <i>American Journal of Sports Medicine</i> , 2013, 41, 560-566.	4.2	108
34	Bridge-Enhanced Anterior Cruciate Ligament Repair: Two-Year Results of a First-in-Human Study. <i>Orthopaedic Journal of Sports Medicine</i> , 2019, 7, 232596711882435.	1.7	104
35	Chronic anterior cruciate ligament deficiency is associated with increased anterior translation of the tibia during the transition from non-weightbearing to weightbearing. <i>Journal of Orthopaedic Research</i> , 2002, 20, 332-337.	2.3	103
36	Coefficients of friction, lubricin, and cartilage damage in the anterior cruciate ligament-deficient guinea pig knee. <i>Journal of Orthopaedic Research</i> , 2008, 26, 231-237.	2.3	99

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37	Static and Dynamic Error of a Biplanar Videoradiography System Using Marker-Based and Markerless Tracking Techniques. <i>Journal of Biomechanical Engineering</i> , 2011, 133, 121002.	1.3	98
38	Effects of Supplemental Intra-articular Lubricin and Hyaluronic Acid on the Progression of Posttraumatic Arthritis in the Anterior Cruciate Ligament-Deficient Rat Knee. <i>American Journal of Sports Medicine</i> , 2011, 39, 164-172.	4.2	95
39	Biology of anterior cruciate ligament injury and repair: Kappa delta ann doner vaughn award paper 2013. <i>Journal of Orthopaedic Research</i> , 2013, 31, 1501-1506.	2.3	94
40	Automatic determination of anatomical coordinate systems for three-dimensional bone models of the isolated human knee. <i>Journal of Biomechanics</i> , 2010, 43, 1623-1626.	2.1	91
41	Effect of tension and placement of a prosthetic anterior cruciate ligament on the anteroposterior laxity of the knee. <i>Journal of Orthopaedic Research</i> , 1992, 10, 177-186.	2.3	88
42	Disrupting the Indian hedgehog signaling pathway in vivo attenuates surgically induced osteoarthritis progression in Col2a1-CreERT2; lhhl/fl mice. <i>Arthritis Research and Therapy</i> , 2014, 16, R11.	3.5	88
43	The Science of Anterior Cruciate Ligament Rehabilitation. <i>Clinical Orthopaedics and Related Research</i> , 2002, 402, 9-20.	1.5	87
44	The Effect of Skeletal Maturity on Functional Healing of the Anterior Cruciate Ligament. <i>Journal of Bone and Joint Surgery - Series A</i> , 2010, 92, 2039-2049.	3.0	87
45	Ligament injury, reconstruction and osteoarthritis. <i>Current Opinion in Orthopaedics</i> , 2005, 16, 354-362.	0.3	83
46	Reduced platelet concentration does not harm PRP effectiveness for ACL repair in a porcine in vivo model. <i>Journal of Orthopaedic Research</i> , 2011, 29, 1002-1007.	2.3	83
47	The use of magnetic resonance imaging to predict ACL graft structural properties. <i>Journal of Biomechanics</i> , 2011, 44, 2843-2846.	2.1	81
48	Accuracy of circular contact area measurements with thin-film pressure sensors. <i>Journal of Biomechanics</i> , 2007, 40, 2569-2572.	2.1	78
49	MRI Volume and Signal Intensity of ACL Graft Predict Clinical, Functional, and Patient-Oriented Outcome Measures After ACL Reconstruction. <i>American Journal of Sports Medicine</i> , 2015, 43, 693-699.	4.2	78
50	Determination of a zero strain reference for the anteromedial band of the anterior cruciate ligament. <i>Journal of Orthopaedic Research</i> , 1994, 12, 789-795.	2.3	77
51	Prevention of cartilage degeneration and gait asymmetry by lubricin tribosupplementation in the rat following anterior cruciate ligament transection. <i>Arthritis and Rheumatism</i> , 2012, 64, 1162-1171.	6.7	77
52	The impact of forced joint exercise on lubricin biosynthesis from articular cartilage following ACL transection and intra-articular lubricin's effect in exercised joints following ACL transection. <i>Osteoarthritis and Cartilage</i> , 2012, 20, 940-948.	1.3	76
53	<i>T</i> ₂ * MR relaxometry and ligament volume are associated with the structural properties of the healing ACL. <i>Journal of Orthopaedic Research</i> , 2014, 32, 492-499.	2.3	74
54	The Strain Behavior of the Anterior Cruciate Ligament During Stair Climbing: An In Vivo Study. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 1999, 15, 185-191.	2.7	73

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55	Bone-to-Bone Fixation Enhances Functional Healing of the Porcine Anterior Cruciate Ligament Using a Collagen-Platelet Composite. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2010, 26, S49-S57.	2.7	73
56	Loss of extracellular matrix from articular cartilage is mediated by the synovium and ligament after anterior cruciate ligament injury. <i>Osteoarthritis and Cartilage</i> , 2013, 21, 1950-1957.	1.3	73
57	The Meniscal Roots: Gross Anatomic Correlation with 3-T MRI Findings. <i>American Journal of Roentgenology</i> , 2007, 188, W446-W450.	2.2	72
58	Can suture repair of ACL transection restore normal anteroposterior laxity of the knee? An ex vivo study. <i>Journal of Orthopaedic Research</i> , 2008, 26, 1500-1505.	2.3	72
59	Comparison of differential biomarkers of osteoarthritis with and without posttraumatic injury in the Hartley guinea pig model. <i>Journal of Orthopaedic Research</i> , 2010, 28, 900-906.	2.3	72
60	Open- or Closed-Kinetic Chain Exercises After Anterior Cruciate Ligament Reconstruction?. <i>Exercise and Sport Sciences Reviews</i> , 2005, 33, 134-140.	3.0	71
61	Measurement of anterior-posterior knee laxity: a comparison of three techniques. <i>Journal of Orthopaedic Research</i> , 2002, 20, 421-426.	2.3	68
62	Thumb carpometacarpal arthroscopy: A topographic, anatomic study of the thenar portal. <i>Journal of Hand Surgery</i> , 2005, 30, 373-379.	1.6	68
63	Identification of Î± ₂ Macroglobulin as a Master Inhibitor of Cartilage-Degrading Factors That Attenuates the Progression of Posttraumatic Osteoarthritis. <i>Arthritis and Rheumatology</i> , 2014, 66, 1843-1853.	5.6	66
64	Effects of Initial Graft Tension on the Tibiofemoral Compressive Forces and Joint Position after Anterior Cruciate Ligament Reconstruction. <i>American Journal of Sports Medicine</i> , 2007, 35, 395-403.	4.2	65
65	The Influence of Functional Knee Bracing on the Anterior Cruciate Ligament Strain Biomechanics in Weightbearing and Nonweightbearing Knees. <i>American Journal of Sports Medicine</i> , 2000, 28, 815-824.	4.2	64
66	The Effects of Compressive Load and Knee Joint Torque on Peak Anterior Cruciate Ligament Strains. <i>American Journal of Sports Medicine</i> , 2003, 31, 701-707.	4.2	63
67	The use of platelets to affect functional healing of an anterior cruciate ligament (ACL) autograft in a caprine ACL reconstruction model. <i>Journal of Orthopaedic Research</i> , 2009, 27, 631-638.	2.3	63
68	Anterior cruciate ligament reconstruction using quadriceps patellar tendon graft. <i>American Journal of Sports Medicine</i> , 1991, 19, 458-462.	4.2	60
69	Isometric versus tension measurements. <i>American Journal of Sports Medicine</i> , 1993, 21, 82-88.	4.2	59
70	The Effect of Initial Graft Tension After Anterior Cruciate Ligament Reconstruction. <i>American Journal of Sports Medicine</i> , 2013, 41, 25-34.	4.2	58
71	Collagen scaffold supplementation does not improve the functional properties of the repaired anterior cruciate ligament. <i>Journal of Orthopaedic Research</i> , 2010, 28, 703-709.	2.3	57
72	An in vivo comparison of anterior tibial translation and strain in the anteromedial band of the anterior cruciate ligament. <i>Journal of Biomechanics</i> , 1993, 26, 51-58.	2.1	56

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73	The relationship between graft tensioning and the anterior-posterior laxity in the anterior cruciate ligament reconstructed goat knee. <i>Journal of Orthopaedic Research</i> , 2001, 19, 841-844.	2.3	56
74	Quantification of meniscal volume by segmentation of 3 T magnetic resonance images. <i>Journal of Biomechanics</i> , 2007, 40, 2811-2815.	2.1	56
75	Intra-articular Recombinant Human Proteoglycan 4 Mitigates Cartilage Damage After Destabilization of the Medial Meniscus in the Yucatan Minipig. <i>American Journal of Sports Medicine</i> , 2017, 45, 1512-1521.	4.2	55
76	Psychological Factors Associated With Anterior Cruciate Ligament Reconstruction Recovery. <i>Orthopaedic Journal of Sports Medicine</i> , 2016, 4, 232596711663834.	1.7	54
77	The Elongation Behavior of the Anterior Cruciate Ligament Graft in Vivo. <i>American Journal of Sports Medicine</i> , 2001, 29, 161-166.	4.2	53
78	A new device to measure knee laxity during weightbearing and non-weightbearing conditions. <i>Journal of Orthopaedic Research</i> , 2001, 19, 1185-1191.	2.3	53
79	The Effect of Anterior Cruciate Ligament Deficiency and Functional Bracing on Translation of the Tibia Relative to the Femur during Nonweightbearing and Weightbearing. <i>American Journal of Sports Medicine</i> , 2003, 31, 99-105.	4.2	52
80	Biomechanical analysis of the ankle anterior drawer test for anterior talofibular ligament injuries. <i>Journal of Orthopaedic Research</i> , 1995, 13, 609-614.	2.3	51
81	Delay of 2 or 6 Weeks Adversely Affects the Functional Outcome of Augmented Primary Repair of the Porcine Anterior Cruciate Ligament. <i>American Journal of Sports Medicine</i> , 2010, 38, 2528-2534.	4.2	48
82	Increased platelet concentration does not improve functional graft healing in bio-enhanced ACL reconstruction. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2015, 23, 1161-1170.	4.2	48
83	Delayed Gadolinium-Enhanced MR Imaging of Cartilage (dGEMRIC) following ACL injury. <i>Osteoarthritis and Cartilage</i> , 2010, 18, 662-667.	1.3	47
84	Knee Biomechanics during a Jump-Cut Maneuver. <i>Medicine and Science in Sports and Exercise</i> , 2013, 45, 942-951.	0.4	47
85	Evaluation of Knee Joint Laxity and the Structural Properties of the Anterior Cruciate Ligament Graft in the Human. <i>American Journal of Sports Medicine</i> , 1997, 25, 203-206.	4.2	44
86	Material properties of articular cartilage in the rabbit tibial plateau. <i>Journal of Biomechanics</i> , 2006, 39, 2331-2337.	2.1	44
87	In Vitro Evaluation of the Effect Lateral Process Talar Excision on Ankle and Subtalar Joint Stability. <i>Foot and Ankle International</i> , 2007, 28, 78-83.	2.3	42
88	Indian Hedgehog in Synovial Fluid Is a Novel Marker for Early Cartilage Lesions in Human Knee Joint. <i>International Journal of Molecular Sciences</i> , 2014, 15, 7250-7265.	4.1	42
89	Bench-to bedside: Bridge-enhanced anterior cruciate ligament repair. <i>Journal of Orthopaedic Research</i> , 2017, 35, 2606-2612.	2.3	42
90	Meniscus treatment and age associated with narrower radiographic joint space width 2-3 years after ACL reconstruction: data from the MOON onsite cohort. <i>Osteoarthritis and Cartilage</i> , 2015, 23, 581-588.	1.3	40

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91	<i>T₂* relaxometry and volume predict semi-quantitative histological scoring of an ACL bridge-enhanced primary repair in a porcine model.</i> Journal of Orthopaedic Research, 2015, 33, 1180-1187.	2.3	37
92	Quantitative MR imaging using <i>LiveWire</i> to measure tibiofemoral articular cartilage thickness. Osteoarthritis and Cartilage, 2008, 16, 1167-1173.	1.3	36
93	Validation of Porcine Knee as a Sex-specific Model to Study Human Anterior Cruciate Ligament Disorders. Clinical Orthopaedics and Related Research, 2015, 473, 639-650.	1.5	36
94	Predictors of Healing Ligament Size and Magnetic Resonance Signal Intensity at 6 Months After Bridge-Enhanced Anterior Cruciate Ligament Repair. American Journal of Sports Medicine, 2019, 47, 1361-1369.	4.2	36
95	Effects of increased chronic loading on articular cartilage material properties in the Lapine tibio-femoral joint. Journal of Biomechanics, 2010, 43, 2301-2308.	2.1	34
96	Frictional properties of Hartley guinea pig knees with and without proteolytic disruption of the articular surfaces. Osteoarthritis and Cartilage, 2007, 15, 309-315.	1.3	33
97	Cyclic loading increases friction and changes cartilage surface integrity in lubricin mutant mouse knees. Arthritis and Rheumatism, 2012, 64, 465-473.	6.7	32
98	Sex Influences the Biomechanical Outcomes of Anterior Cruciate Ligament Reconstruction in a Preclinical Large Animal Model. American Journal of Sports Medicine, 2015, 43, 1623-1631.	4.2	32
99	Effect of Matching or Overconstraining Knee Laxity During Anterior Cruciate Ligament Reconstruction on Knee Osteoarthritis and Clinical Outcomes. American Journal of Sports Medicine, 2016, 44, 1660-1670.	4.2	32
100	Magnetic resonance measurements of tissue quantity and quality using <i>T₂* relaxometry</i> predict temporal changes in the biomechanical properties of the healing ACL. Journal of Orthopaedic Research, 2018, 36, 1701-1709.	2.3	32
101	Initial Fixation Strength of Massive Rotator Cuff Tears: In Vitro Comparison of Single-Row Suture Anchor and Transosseous Tunnel Constructs. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2007, 23, 710-716.	2.7	31
102	Factors influencing the output of an implantable force transducer. Journal of Biomechanics, 2000, 33, 889-893.	2.1	30
103	Accuracy and repeatability of Roentgen stereophotogrammetric analysis (RSA) for measuring knee laxity in longitudinal studies. Journal of Biomechanics, 2001, 34, 1355-1359.	2.1	30
104	Biomechanical comparison of single-row arthroscopic rotator cuff repair technique versus transosseous repair technique. Journal of Shoulder and Elbow Surgery, 2008, 17, 808-814.	2.6	30
105	Transcriptional profiling of articular cartilage in a porcine model of early post-traumatic osteoarthritis. Journal of Orthopaedic Research, 2018, 36, 318-329.	2.3	29
106	Pin Loosening in a Halo "Vest" Orthosis. Spine, 2000, 25, 1325-1331.	2.0	28
107	Abnormal Mechanical Loading Induces Cartilage Degeneration by Accelerating Meniscus Hypertrophy and Mineralization After ACL Injuries In Vivo. American Journal of Sports Medicine, 2016, 44, 652-663.	4.2	28
108	Preventing Friction-induced Chondrocyte Apoptosis: Comparison of Human Synovial Fluid and Hylan G-F 20. Journal of Rheumatology, 2012, 39, 1473-1480.	2.0	27

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109	Anatomic Features of the Tibial Plateau Predict Outcomes of ACL Reconstruction Within 7 Years After Surgery. <i>American Journal of Sports Medicine</i> , 2019, 47, 303-311.	4.2	27
110	Histological Predictors of Maximum Failure Loads Differ Between the Healing ACL and ACL Grafts After 6 and 12 Months In Vivo. <i>Orthopaedic Journal of Sports Medicine</i> , 2013, 1, 232596711351245.	1.7	26
111	Biomechanical Outcomes of Bridge-enhanced Anterior Cruciate Ligament Repair Are Influenced by Sex in a Preclinical Model. <i>Clinical Orthopaedics and Related Research</i> , 2015, 473, 2599-2608.	1.5	26
112	Effect of low-temperature ethylene oxide and electron beam sterilization on the in vitro and in vivo function of reconstituted extracellular matrix-derived scaffolds. <i>Journal of Biomaterials Applications</i> , 2015, 30, 435-449.	2.4	26
113	Changes in Cross-sectional Area and Signal Intensity of Healing Anterior Cruciate Ligaments and Grafts in the First 2 Years After Surgery. <i>American Journal of Sports Medicine</i> , 2019, 47, 1831-1843.	4.2	25
114	Automated magnetic resonance image segmentation of the anterior cruciate ligament. <i>Journal of Orthopaedic Research</i> , 2021, 39, 831-840.	2.3	25
115	Effects of Ultrasound and Stretch on Knee Ligament Extensibility. <i>Journal of Orthopaedic and Sports Physical Therapy</i> , 2000, 30, 341-347.	3.5	24
116	Effects of ACL reconstruction surgery on muscle activity of the lower limb during a jumpâ€cut maneuver in males and females. <i>Journal of Orthopaedic Research</i> , 2013, 31, 1890-1896.	2.3	24
117	Electron beam sterilization does not have a detrimental effect on the ability of extracellular matrix scaffolds to support in vivo ligament healing. <i>Journal of Orthopaedic Research</i> , 2015, 33, 1015-1023.	2.3	24
118	Comparative study of fracture gap motion in external fixation. <i>Clinical Biomechanics</i> , 1987, 2, 191-195.	1.2	23
119	Effects of Suture Choice on Biomechanics and Physel Status After Bioenhanced Anterior Cruciate Ligament Repair in Skeletally Immature Patients: A Large-Animal Study. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2013, 29, 122-132.	2.7	23
120	Addition of Autologous Mesenchymal Stem Cells to Whole Blood for Bioenhanced ACL Repair Has No Benefit in the Porcine Model. <i>American Journal of Sports Medicine</i> , 2015, 43, 320-330.	4.2	23
121	Transcriptional profiling of synovium in a porcine model of early postâ€traumatic osteoarthritis. <i>Journal of Orthopaedic Research</i> , 2018, 36, 2128-2139.	2.3	23
122	Effects of ACL interference screws on articular cartilage volume and thickness measurements with 1.5 T and 3 T MRI. <i>Osteoarthritis and Cartilage</i> , 2008, 16, 572-578.	1.3	22
123	Effect of muscle loads and torque applied to the tibia on the strain behavior of the anterior cruciate ligament: An in vitro investigation. <i>Clinical Biomechanics</i> , 2011, 26, 1005-1011.	1.2	22
124	Attenuation of cartilage pathogenesis in post-traumatic osteoarthritis (PTOA) in mice by blocking the stromal derived factor 1 receptor (CXCR4) with the specific inhibitor, AMD3100. <i>Journal of Orthopaedic Research</i> , 2015, 33, 1071-1078.	2.3	21
125	Comparison of two methods for calculating the frictional properties of articular cartilage using a simple pendulum and intact mouse knee joints. <i>Journal of Biomechanics</i> , 2009, 42, 1996-1999.	2.1	20
126	Structural and Anatomic Restoration of the Anterior Cruciate Ligament Is Associated With Less Cartilage Damage 1 Year After Surgery: Healing Ligament Properties Affect Cartilage Damage. <i>Orthopaedic Journal of Sports Medicine</i> , 2017, 5, 232596711772388.	1.7	20

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127	VEGF receptor mRNA expression by ACL fibroblasts is associated with functional healing of the ACL. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2011, 19, 1675-1682.	4.2	19
128	Extracellular matrixâ€œblood composite injection reduces post-traumatic osteoarthritis after anterior cruciate ligament injury in the rat. <i>Journal of Orthopaedic Research</i> , 2016, 34, 995-1003.	2.3	19
129	Predictors of Radiographic Osteoarthritis 2 to 3 Years After Anterior Cruciate Ligament Reconstruction: Data From the MOON On-site Nested Cohort. <i>Orthopaedic Journal of Sports Medicine</i> , 2019, 7, 232596711986708.	1.7	19
130	Return to Play Following Anterior Cruciate Ligament Reconstruction. <i>Clinics in Sports Medicine</i> , 2016, 35, 655-668.	1.8	18
131	Synovial fluid proteome changes in ACL injury-induced posttraumatic osteoarthritis: Proteomics analysis of porcine knee synovial fluid. <i>PLoS ONE</i> , 2019, 14, e0212662.	2.5	18
132	A transfer learning approach for automatic segmentation of the surgically treated anterior cruciate ligament. <i>Journal of Orthopaedic Research</i> , 2022, 40, 277-284.	2.3	18
133	Effect of knee musculature on anterior cruciate ligament strain in vivo. <i>Journal of Electromyography and Kinesiology</i> , 1991, 1, 191-198.	1.7	17
134	Tibiofemoral Compression Force Differences Using Laxity- and Force-Based Initial Graft Tensioning Techniques in the Anterior Cruciate Ligamentâ€œReconstructed Cadaveric Knee. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2008, 24, 1052-1060.	2.7	17
135	Automatic determination of an anatomical coordinate system for a three-dimensional model of the human patella. <i>Journal of Biomechanics</i> , 2013, 46, 2093-2096.	2.1	17
136	Limited Evidence Suggests a Protective Association Between Oral Contraceptive Pill Use and Anterior Cruciate Ligament Injuries in Females: A Systematic Review. <i>Sports Health</i> , 2017, 9, 498-510.	2.7	17
137	Preoperative KOOS and SF-36 Scores Are Associated With the Development of Symptomatic Knee Osteoarthritis at 7 Years After Anterior Cruciate Ligament Reconstruction. <i>American Journal of Sports Medicine</i> , 2018, 46, 869-875.	4.2	17
138	Tibial tunnel widening following anterior cruciate ligament reconstruction: A retrospective seven-year study evaluating the effects of initial graft tensioning and graft selection. <i>Knee</i> , 2018, 25, 1107-1114.	1.6	17
139	The Effect of Screw Insertion Torque on Tendons Fixed with Spiked Washers. <i>American Journal of Sports Medicine</i> , 1998, 26, 536-539.	4.2	16
140	Reliability of Force/Displacement Measures in a Clinical Device Designed to Measure Ligamentous Laxity at the Knee. <i>Journal of Orthopaedic and Sports Physical Therapy</i> , 1989, 10, 441-447.	3.5	15
141	The uncertainty of predicting intact anterior cruciate ligament degeneration in terms of structural properties using T_2^* relaxometry in a human cadaveric model. <i>Journal of Biomechanics</i> , 2015, 48, 1188-1192.	2.1	15
142	Sensitivity of ACL volume and T_2^* relaxation time to magnetic resonance imaging scan conditions. <i>Journal of Biomechanics</i> , 2017, 56, 117-121.	2.1	15
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