

Patrick J McMahon

List of Publications by Year in descending order

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115
papers

4,226
citations

109321

35
h-index

114465

63
g-index

118
all docs

118
docs citations

118
times ranked

2233
citing authors

#	ARTICLE	IF	CITATIONS
1	Varying Femoral Tunnels between the Anatomical Footprint and Isometric Positions. American Journal of Sports Medicine, 2005, 33, 712-718.	4.2	303
2	The role of the long head of the biceps brachii in superior stability of the glenohumeral joint.. Journal of Bone and Joint Surgery - Series A, 1995, 77, 366-372.	3.0	240
3	Stability and instability of the glenohumeral joint: The role of shoulder muscles. Journal of Shoulder and Elbow Surgery, 2005, 14, S32-S38.	2.6	235
4	Electromyographic analysis of deltoid and rotator cuff function under varying loads and speeds. Journal of Shoulder and Elbow Surgery, 2000, 9, 47-58.	2.6	141
5	Gender Differences in Patellofemoral Joint Biomechanics. Clinical Orthopaedics and Related Research, 2002, 402, 260-269.	1.5	134
6	A quantitative analysis of valgus torque on the ACL: A human cadaveric study. Journal of Orthopaedic Research, 2003, 21, 1107-1112.	2.3	130
7	Effects of Simulated Scapular Protraction on Anterior Glenohumeral Stability. American Journal of Sports Medicine, 1999, 27, 801-805.	4.2	124
8	Shoulder muscle forces and tendon excursions during glenohumeral abduction in the scapular plane. Journal of Shoulder and Elbow Surgery, 1995, 4, 199-208.	2.6	121
9	Glenohumeral Joint Translation after Arthroscopic, Nonablative, Thermal Capsuloplasty with a Laser. American Journal of Sports Medicine, 1998, 26, 495-498.	4.2	112
10	Reconstruction of the Lateral Collateral Ligament of the Knee With Patellar Tendon Allograft. American Journal of Sports Medicine, 1998, 26, 656-662.	4.2	110
11	Release of the coracoacromial ligament can lead to glenohumeral laxity: A biomechanical study. Journal of Shoulder and Elbow Surgery, 2001, 10, 68-72.	2.6	110
12	Soft-tissue injury as an indication of child abuse.. Journal of Bone and Joint Surgery - Series A, 1995, 77, 1179-1183.	3.0	98
13	Comparative electromyographic analysis of shoulder muscles during planar motions: Anterior glenohumeral instability versus normal. Journal of Shoulder and Elbow Surgery, 1996, 5, 118-123.	2.6	92
14	A new dynamic testing apparatus to study glenohumeral joint motion. Journal of Biomechanics, 1995, 28, 869-874.	2.1	88
15	Glenohumeral translations are increased after a type II superior labrum anterior-posterior lesion: a cadaveric study of severity of passive stabilizer injury. Journal of Shoulder and Elbow Surgery, 2004, 13, 39-44.	2.6	76
16	A biomechanical comparison of arthroscopic sliding and sliding-locking knots. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2005, 21, 204-210.	2.7	76
17	Reflexive Muscle Activation Alterations in Shoulders with Anterior Glenohumeral Instability. American Journal of Sports Medicine, 2004, 32, 1013-1021.	4.2	73
18	The anterior band of the inferior glenohumeral ligament: Biomechanical properties from tensile testing in the position of apprehension. Journal of Shoulder and Elbow Surgery, 1998, 7, 467-471.	2.6	70

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19	Strain of the anterior band of the inferior glenohumeral ligament during capsule failure. <i>Journal of Shoulder and Elbow Surgery</i> , 1997, 6, 473-479.	2.6	63
20	Glenohumeral Translations are Only Partially Restored after Repair of a Simulated Type II Superior Labral Lesion. <i>American Journal of Sports Medicine</i> , 2003, 31, 56-63.	4.2	63
21	Age related biomechanical properties of the glenoidâ€™ anterior band of the inferior glenohumeral ligamentâ€™ humerus complex. <i>Clinical Biomechanics</i> , 1999, 14, 471-476.	1.2	62
22	Arthroscopic suture tying. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2001, 17, 348-352.	2.7	61
23	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, 1357-1365.	4.2	57
24	The Cyclops Lesion: A Cause of Diminished Knee Extension After Rupture of the Anterior Cruciate Ligament. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 1999, 15, 757-761.	2.7	56
25	Precision of ACL Tunnel Placement Using Traditional and Robotic Techniques. <i>Computer Aided Surgery</i> , 2001, 6, 270-278.	1.8	55
26	The anterior band of the inferior glenohumeral ligament. <i>Journal of Bone and Joint Surgery: British Volume</i> , 1999, 81, 406-413.	3.4	55
27	The relationship between the orientation of the glenoid and tears of the rotator cuff. <i>Journal of Bone and Joint Surgery: British Volume</i> , 2006, 88-B, 1105-1109.	3.4	51
28	The Effects of Ulnar Axial Malalignment on Supination and Pronation*. <i>Journal of Bone and Joint Surgery - Series A</i> , 2000, 82, 1726-1731.	3.0	48
29	The Glenohumeral Capsule Should be Evaluated as a Sheet of Fibrous Tissue: A Validated Finite Element Model. <i>Annals of Biomedical Engineering</i> , 2010, 38, 66-76.	2.5	46
30	Methodology and sensitivity studies for finite element modeling of the inferior glenohumeral ligament complex. <i>Journal of Biomechanics</i> , 2007, 40, 603-612.	2.1	45
31	Pectoralis Major Tendon Transfers Above or Underneath the Conjoint Tendon in Subscapularis-Deficient Shoulders. <i>Journal of Bone and Joint Surgery - Series A</i> , 2007, 89, 2477-2484.	3.0	44
32	Pectoralis Major Tendon Transfers Above or Underneath the Conjoint Tendon in Subscapularis-Deficient Shoulders. <i>Journal of Bone and Joint Surgery - Series A</i> , 2007, 89, 2477-2484.	3.0	44
33	Stress and strain in the anterior band of the inferior glenohumeral ligament during a simulated clinical examination. <i>Journal of Shoulder and Elbow Surgery</i> , 2005, 14, S24-S31.	2.6	37
34	Thoracohumeral muscle activity alters glenohumeral joint biomechanics during active abduction. <i>Journal of Orthopaedic Research</i> , 2006, 24, 748-756.	2.3	37
35	Decreasing glenoid inclination improves function in shoulders with simulated massive rotator cuff tears. <i>Clinical Biomechanics</i> , 2006, 21, 942-949.	1.2	36
36	Internal impingement: Findings on magnetic resonance imaging and arthroscopic evaluation. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2004, 20, 701-704.	2.7	36

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37	Muscles May Contribute to Shoulder Dislocation and Stability. <i>Clinical Orthopaedics and Related Research</i> , 2002, 403, S18-S25.	1.5	35
38	Variation in the Glenoid Origin of the Anteroinferior Glenohumeral Capsulolabrum. <i>Clinical Orthopaedics and Related Research</i> , 2002, 400, 26-31.	1.5	35
39	Deformation and strain characteristics along the length of the anterior band of the inferior glenohumeral ligament. <i>Journal of Shoulder and Elbow Surgery</i> , 2001, 10, 482-488.	2.6	33
40	Quantitative Assessment of Glenohumeral Translation. <i>Clinical Orthopaedics and Related Research</i> , 2002, 400, 93-97.	1.5	33
41	Glenohumeral joint translation after arthroscopic thermal capsuloplasty of the rotator interval. <i>Journal of Shoulder and Elbow Surgery</i> , 2003, 12, 139-143.	2.6	33
42	A novel cadaveric model for anterior-inferior shoulder dislocation using forcible apprehension positioning. <i>Journal of Rehabilitation Research and Development</i> , 2003, 40, 349.	1.6	32
43	Glenohumeral translation after arthroscopic thermal capsuloplasty with a radiofrequency probe. <i>Journal of Shoulder and Elbow Surgery</i> , 2000, 9, 514-518.	2.6	31
44	Shoulder Muscle Reflex Latencies Under Various Levels of Muscle Contraction. <i>Clinical Orthopaedics and Related Research</i> , 2003, 407, 92-101.	1.5	31
45	The current anatomical description of the inferior glenohumeral ligament does not correlate with its functional role in positions of external rotation. <i>Journal of Orthopaedic Research</i> , 2008, 26, 1598-1604.	2.3	31
46	Finding consistent strain distributions in the glenohumeral capsule between two subjects: Implications for development of physical examinations. <i>Journal of Biomechanics</i> , 2011, 44, 607-613.	2.1	29
47	The healing effects on the biomechanical properties of joint capsular tissue treated with ho:YAG laser. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2001, 17, 342-347.	2.7	28
48	Bi-directional mechanical properties of the posterior region of the glenohumeral capsule. <i>Journal of Biomechanics</i> , 2005, 38, 1365-1369.	2.1	28
49	Reproducibility and Reliability of the Snyder Classification of Superior Labral Anterior Posterior Lesions Among Shoulder Surgeons. <i>American Journal of Sports Medicine</i> , 2011, 39, 986-991.	4.2	28
50	The collagen fibers of the anteroinferior capsulolabrum have multiaxial orientation to resist shoulder dislocation. <i>Journal of Shoulder and Elbow Surgery</i> , 2003, 12, 247-252.	2.6	27
51	Active stability of the glenohumeral joint decreases in the apprehension position. <i>Clinical Biomechanics</i> , 2004, 19, 801-809.	1.2	27
52	Acromial morphology: Effects of suboptimal radiographs. <i>Journal of Shoulder and Elbow Surgery</i> , 2007, 16, 135-142.	2.6	26
53	What Is the Prevalence of Senior-athlete Rotator Cuff Injuries and Are They Associated With Pain and Dysfunction?. <i>Clinical Orthopaedics and Related Research</i> , 2014, 472, 2427-2432.	1.5	26
54	Suture augmentation following ACL injury to restore the function of the ACL, MCL, and medial meniscus in the goat stifle joint. <i>Journal of Biomechanics</i> , 2011, 44, 1530-1535.	2.1	25

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55	Elbow injuries. <i>Current Opinion in Rheumatology</i> , 2002, 14, 160-167.	4.3	23
56	Shoulder Biomechanics and Muscle Plasticity: Implications in Spinal Cord Injury. <i>Clinical Orthopaedics and Related Research</i> , 2002, 403, S26-S36.	1.5	23
57	Finite element modelling of the glenohumeral capsule can help assess the tested region during a clinical exam. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2010, 13, 413-418.	1.6	23
58	Glenohumeral joint translation after arthroscopic thermal capsuloplasty of the posterior capsule. <i>Journal of Shoulder and Elbow Surgery</i> , 2003, 12, 242-246.	2.6	22
59	Precision of ACL tunnel placement using traditional and robotic techniques. <i>Computer Aided Surgery</i> , 2001, 6, 270-278.	1.8	21
60	Bi-directional Mechanical Properties of the Axillary Pouch of the Glenohumeral Capsule: Implications for Modeling and Surgical Repair. <i>Journal of Biomechanical Engineering</i> , 2004, 126, 284-288.	1.3	19
61	Adaptive glenoid bone remodeling simulation. <i>Journal of Biomechanics</i> , 2009, 42, 1460-1468.	2.1	19
62	Effect of glenoid prosthesis design on glenoid bone remodeling: Adaptive finite element based simulation. <i>Journal of Biomechanics</i> , 2010, 43, 1653-1659.	2.1	19
63	Cadaveric Study of Glenohumeral Translation Using Electromagnetic Sensors. <i>Clinical Orthopaedics and Related Research</i> , 2002, 400, 88-92.	1.5	18
64	Evaluation of bone tunnel placement for suture augmentation of an injured anterior cruciate ligament: Effects on joint stability in a goat model. <i>Journal of Orthopaedic Research</i> , 2010, 28, 1373-1379.	2.3	17
65	The Impact of Glenoid Labrum Thickness and Modulus on Labrum and Glenohumeral Capsule Function. <i>Journal of Biomechanical Engineering</i> , 2010, 132, 121003.	1.3	17
66	Multidirectional kinematics of the glenohumeral joint during simulated simple translation tests: Impact on clinical diagnoses. <i>Journal of Orthopaedic Research</i> , 2004, 22, 889-894.	2.3	16
67	Cubital tunnel syndrome. <i>Operative Techniques in Sports Medicine</i> , 1996, 4, 15-20.	0.3	15
68	Material Properties of the Axillary Pouch of the Glenohumeral Capsule: Is Isotropic Material Symmetry Appropriate?. <i>Journal of Biomechanical Engineering</i> , 2009, 131, 031007.	1.3	15
69	Anterior shoulder dislocation increases the propensity for recurrence: a cadaveric study of the number of dislocations and type of capsulolabral lesion. <i>Journal of Shoulder and Elbow Surgery</i> , 2013, 22, 1046-1052.	2.6	15
70	Surgical treatment for recurrent shoulder instability: factors influencing surgeon decision making. <i>Journal of Shoulder and Elbow Surgery</i> , 2021, 30, e85-e102.	2.6	14
71	Open Surgical Repair Restores Joint Forces That Resist Glenohumeral Dislocation. <i>Clinical Orthopaedics and Related Research</i> , 2002, 400, 58-64.	1.5	13
72	Effects of anteroinferior capsulolabral incision and resection on glenohumeral joint reaction force. <i>Journal of Rehabilitation Research and Development</i> , 2002, 39, 535-42.	1.6	13

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73	Structure modeling of the glenoid: Relevance to shoulder arthroplasty. <i>Journal of Orthopaedic Research</i> , 2014, 32, 1471-1478.	2.3	12
74	Magnesium ring device to restore function of a transected anterior cruciate ligament in the goat stifle joint. <i>Journal of Orthopaedic Research</i> , 2016, 34, 2001-2008.	2.3	12
75	The painful shoulder. <i>Postgraduate Medicine</i> , 1999, 106, 36-49.	2.0	11
76	Injury to the anteroinferior glenohumeral capsule during anterior dislocation. <i>Clinical Biomechanics</i> , 2013, 28, 140-145.	1.2	10
77	Changes to the mechanical properties of the glenohumeral capsule during anterior dislocation. <i>Journal of Biomechanics</i> , 2014, 47, 464-469.	2.1	10
78	Effects of region and sex on the mechanical properties of the glenohumeral capsule during uniaxial extension. <i>Journal of Applied Physiology</i> , 2010, 108, 1711-1718.	2.5	9
79	Capsule function following anterior dislocation: Implications for diagnosis of shoulder instability. <i>Journal of Orthopaedic Research</i> , 2013, 31, 962-968.	2.3	8
80	Outcomes of tenodesis of the long head of the biceps tendon more than three months after rupture. <i>World Journal of Orthopedics</i> , 2016, 7, 188.	1.8	8
81	Effects of simulated injury on the anteroinferior glenohumeral capsule. <i>Medical and Biological Engineering and Computing</i> , 2012, 50, 1299-1307.	2.8	7
82	A reliable method for classifying acromial shape. <i>International Biomechanics</i> , 2015, 2, 36-42.	1.0	7
83	Orientation feedback during simulated simple translation tests has little clinical significance on the magnitude and precision of glenohumeral joint translations. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2006, 14, 1194-1199.	4.2	5
84	Quantification of rotator cuff tear geometry: the repair ratio as a guide for surgical repair in crescent and U-shaped tears. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2010, 130, 369-373.	2.4	5
85	Collagen fiber alignment and maximum principal strain in the glenohumeral capsule predict location of failure during uniaxial extension. <i>Biomechanics and Modeling in Mechanobiology</i> , 2014, 13, 379-385.	2.8	3
86	EFFECTS OF SIMULATED FIXED FEMORAL ROTATION ON THE PATELLOFEMORAL JOINT: IN VITRO AND IN VIVO BIOMECHANICAL ASSESSMENT IN CANINES. <i>Journal of Musculoskeletal Research</i> , 2000, 04, 97-105.	0.2	2
87	Operative treatment of labral lesions: arthroscopic versus open treatment. <i>Current Opinion in Orthopaedics</i> , 2003, 14, 93-98.	0.3	2
88	Talocrural Dislocation With Associated Weber Type C Fibular Fracture in a Collegiate Football Player: A Case Report. <i>Journal of Athletic Training</i> , 2008, 43, 319-325.	1.8	2
89	THE USE OF ENTIRE FRESH PATELLAR ALLOGRAFT FOR ARTICULAR CARTILAGE REPLACEMENT IN RABBITS: A LONG-TERM INTERDISCIPLINARY STUDY. <i>Journal of Musculoskeletal Research</i> , 1999, 03, 305-316.	0.2	1
90	Effects of External Rotation on Anteroposterior Translations in the Shoulder: A Pilot Study. <i>Clinical Orthopaedics and Related Research</i> , 2014, 472, 2397-2403.	1.5	1

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91	Surgery and Science of the Rotator Cuff: Editorial Comment. Clinical Orthopaedics and Related Research, 2014, 472, 2425-2426.	1.5	1
92	The Inferior Stability Provided by the Glenohumeral Capsule Increases With External Rotation in the Abducted Glenohumeral Joint. , 2008, , .		1
93	Effects of Glenoid Prosthesis Design Variables on Glenoid Bone Remodeling: A Finite Element Based Simulation and Validation Study. , 2008, , .		1
94	Effects of Simulated Injury on Tissue Deformation and Mechanical Properties of the Anteroinferior Glenohumeral Capsule. , 2008, , .		1
95	Assessing the accuracy of arthroscopic and open measurements of the size of rotator cuff tears: A simulation-based study. World Journal of Orthopedics, 2021, 12, 983-990.	1.8	1
96	Numeral component revision of totalelbow arthroplasty with numeral bone deficiency. Operative Techniques in Orthopaedics, 2002, 12, 21-25.	0.1	0
97	Thermal capsuloplasty of the glenohumeral joint: Technique and results OF treatment. Operative Techniques in Sports Medicine, 2002, 10, 47-50.	0.3	0
98	Active Stability of the Glenohumeral Joint Decreases in the Apprehension Position. , 2003, , 213.		0
99	Thermal probes: Whatâ€™s available in 2004. Operative Techniques in Sports Medicine, 2004, 12, 206-209.	0.3	0
100	Effects of Tunnel Location for Suture Augmentation Following Anterior Cruciate Ligament Injury. , 2009, , .		0
101	Use of Extracellular Matrix Bioscaffolds to Enhance ACL Healing: A Multidisciplinary Approach in a Goat Model. , 2010, , .		0
102	Collagen Fiber Alignment and Maximum Principle Strain in the Axillary Pouch Predict Location of Failure During Uniaxial Extension. , 2010, , .		0
103	Collagen Fiber Alignment and Maximum Principal Strain in the Glenohumeral Capsule Predict Location of Failure During Uniaxial Extension. , 2011, , .		0
104	Biomechanical Effects of Failure Modes in Repeated Anterior Inferior Glenohumeral Joint Dislocations. , 2002, , .		0
105	Effects of Gender on the Mechanical Properties of the Glenohumeral Capsule: Implications for Surgical Repair Techniques. , 2007, , .		0
106	Mechanical Properties of the Glenohumeral Capsule Change With Simulated Injury. , 2010, , .		0
107	Changes in Capsule Function Following Anterior Dislocation Elucidate the Need for Standardized Clinical Exams to Diagnose Shoulder Instability. , 2011, , .		0
108	Extracellular Matrix Bioscaffolds to Enhance ACL Healing: Impact on the Contribution of the MCL to Joint Stability. , 2011, , .		0

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109	Injury to the Glenohumeral Capsule During Anterior Dislocation Leads to Higher Joint Contact Forces During Simulated Clinical Exams. , 2011, , .		0
110	The Collagen Fiber Kinematics in the Anteroinferior Glenohumeral Capsule Are Not Affine-Predicted. , 2011, , .		0
111	Injury to the Glenohumeral Capsule During Anterior Dislocation Results in Damage to the Anteroinferior Capsule. , 2011, , .		0
112	Performing Clinical Exams at Specific Joint Positions May Help Identify Injured Regions of the Glenohumeral Capsule Following Anterior Dislocation. , 2012, , .		0
113	The Effect of Anterior Dislocation on the Mechanical Properties of the Inferior Glenohumeral Ligament. , 2012, , .		0
114	Arthroscopic Repair of Partial-Thickness Articular Sided Rotator Cuff Tendon Tears. , 2018, , 37-55.		0
115	Glenoid Version Assessment When the CT Field of View Does Not Permit the Friedman Method: The Robertson Method. Orthopaedic Journal of Sports Medicine, 2022, 10, 232596712210835.	1.7	0