

# 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	Glenoid Version Assessment When the CT Field of View Does Not Permit the Friedman Method: The Robertson Method. <i>Orthopaedic Journal of Sports Medicine</i> , 2022, 10, 232596712210835.	1.7	0
2	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
3	Assessing the accuracy of arthroscopic and open measurements of the size of rotator cuff tears: A simulation-based study. <i>World Journal of Orthopedics</i> , 2021, 12, 983-990.	1.8	1
4	Arthroscopic Repair of Partial-Thickness Articular Sided Rotator Cuff Tendon Tears. , 2018, , 37-55.		0
5	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
6	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
7	A reliable method for classifying acromial shape. <i>International Biomechanics</i> , 2015, 2, 36-42.	1.0	7
8	Changes to the mechanical properties of the glenohumeral capsule during anterior dislocation. <i>Journal of Biomechanics</i> , 2014, 47, 464-469.	2.1	10
9	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
10	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
11	Structure modeling of the glenoid: Relevance to shoulder arthroplasty. <i>Journal of Orthopaedic Research</i> , 2014, 32, 1471-1478.	2.3	12
12	Surgery and Science of the Rotator Cuff: Editorial Comment. <i>Clinical Orthopaedics and Related Research</i> , 2014, 472, 2425-2426.	1.5	1
13	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
14	Capsule function following anterior dislocation: Implications for diagnosis of shoulder instability. <i>Journal of Orthopaedic Research</i> , 2013, 31, 962-968.	2.3	8
15	Injury to the anteroinferior glenohumeral capsule during anterior dislocation. <i>Clinical Biomechanics</i> , 2013, 28, 140-145.	1.2	10
16	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
17	Effects of simulated injury on the anteroinferior glenohumeral capsule. <i>Medical and Biological Engineering and Computing</i> , 2012, 50, 1299-1307.	2.8	7
18	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

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19	Performing Clinical Exams at Specific Joint Positions May Help Identify Injured Regions of the Glenohumeral Capsule Following Anterior Dislocation. , 2012, , .		0
20	The Effect of Anterior Dislocation on the Mechanical Properties of the Inferior Glenohumeral Ligament. , 2012, , .		0
21	Collagen Fiber Alignment and Maximum Principal Strain in the Glenohumeral Capsule Predict Location of Failure During Uniaxial Extension. , 2011, , .		0
22	Finding consistent strain distributions in the glenohumeral capsule between two subjects: Implications for development of physical examinations. Journal of Biomechanics, 2011, 44, 607-613.	2.1	29
23	Suture augmentation following ACL injury to restore the function of the ACL, MCL, and medial meniscus in the goat stifle joint. Journal of Biomechanics, 2011, 44, 1530-1535.	2.1	25
24	Reproducibility and Reliability of the Snyder Classification of Superior Labral Anterior Posterior Lesions Among Shoulder Surgeons. American Journal of Sports Medicine, 2011, 39, 986-991.	4.2	28
25	Changes in Capsule Function Following Anterior Dislocation Elucidate the Need for Standardized Clinical Exams to Diagnose Shoulder Instability. , 2011, , .		0
26	Extracellular Matrix Bioscaffolds to Enhance ACL Healing: Impact on the Contribution of the MCL to Joint Stability. , 2011, , .		0
27	Injury to the Glenohumeral Capsule During Anterior Dislocation Leads to Higher Joint Contact Forces During Simulated Clinical Exams. , 2011, , .		0
28	The Collagen Fiber Kinematics in the Anteroinferior Glenohumeral Capsule Are Not Affine-Predicted. , 2011, , .		0
29	Injury to the Glenohumeral Capsule During Anterior Dislocation Results in Damage to the Anteroinferior Capsule. , 2011, , .		0
30	Use of Extracellular Matrix Bioscaffolds to Enhance ACL Healing: A Multidisciplinary Approach in a Goat Model. , 2010, , .		0
31	Collagen Fiber Alignment and Maximum Principle Strain in the Axillary Pouch Predict Location of Failure During Uniaxial Extension. , 2010, , .		0
32	Quantification of rotator cuff tear geometry: the repair ratio as a guide for surgical repair in crescent and U-shaped tears. Archives of Orthopaedic and Trauma Surgery, 2010, 130, 369-373.	2.4	5
33	The Glenohumeral Capsule Should be Evaluated as a Sheet of Fibrous Tissue: A Validated Finite Element Model. Annals of Biomedical Engineering, 2010, 38, 66-76.	2.5	46
34	Evaluation of bone tunnel placement for suture augmentation of an injured anterior cruciate ligament: Effects on joint stability in a goat model. Journal of Orthopaedic Research, 2010, 28, 1373-1379.	2.3	17
35	Effect of glenoid prosthesis design on glenoid bone remodeling: Adaptive finite element based simulation. Journal of Biomechanics, 2010, 43, 1653-1659.	2.1	19
36	Finite element modelling of the glenohumeral capsule can help assess the tested region during a clinical exam. Computer Methods in Biomechanics and Biomedical Engineering, 2010, 13, 413-418.	1.6	23

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37	The Impact of Glenoid Labrum Thickness and Modulus on Labrum and Glenohumeral Capsule Function. Journal of Biomechanical Engineering, 2010, 132, 121003.	1.3	17
38	Effects of region and sex on the mechanical properties of the glenohumeral capsule during uniaxial extension. Journal of Applied Physiology, 2010, 108, 1711-1718.	2.5	9
39	Mechanical Properties of the Glenohumeral Capsule Change With Simulated Injury. , 2010, , .		0
40	Material Properties of the Axillary Pouch of the Glenohumeral Capsule: Is Isotropic Material Symmetry Appropriate?. Journal of Biomechanical Engineering, 2009, 131, 031007.	1.3	15
41	Adaptive glenoid bone remodeling simulation. Journal of Biomechanics, 2009, 42, 1460-1468.	2.1	19
42	Effects of Tunnel Location for Suture Augmentation Following Anterior Cruciate Ligament Injury. , 2009, , .		0
43	The current anatomical description of the inferior glenohumeral ligament does not correlate with its functional role in positions of external rotation. Journal of Orthopaedic Research, 2008, 26, 1598-1604.	2.3	31
44	Talocrural Dislocation With Associated Weber Type C Fibular Fracture in a Collegiate Football Player: A Case Report. Journal of Athletic Training, 2008, 43, 319-325.	1.8	2
45	The Inferior Stability Provided by the Glenohumeral Capsule Increases With External Rotation in the Abducted Glenohumeral Joint. , 2008, , .		1
46	Effects of Glenoid Prosthesis Design Variables on Glenoid Bone Remodeling: A Finite Element Based Simulation and Validation Study. , 2008, , .		1
47	Effects of Simulated Injury on Tissue Deformation and Mechanical Properties of the Anteroinferior Glenohumeral Capsule. , 2008, , .		1
48	Pectoralis Major Tendon Transfers Above or Underneath the Conjoint Tendon in Subscapularis-Deficient Shoulders. Journal of Bone and Joint Surgery - Series A, 2007, 89, 2477-2484.	3.0	44
49	Acromial morphology: Effects of suboptimal radiographs. Journal of Shoulder and Elbow Surgery, 2007, 16, 135-142.	2.6	26
50	Methodology and sensitivity studies for finite element modeling of the inferior glenohumeral ligament complex. Journal of Biomechanics, 2007, 40, 603-612.	2.1	45
51	Pectoralis Major Tendon Transfers Above or Underneath the Conjoint Tendon in Subscapularis-Deficient Shoulders. Journal of Bone and Joint Surgery - Series A, 2007, 89, 2477-2484.	3.0	44
52	Effects of Gender on the Mechanical Properties of the Glenohumeral Capsule: Implications for Surgical Repair Techniques. , 2007, , .		0
53	Decreasing glenoid inclination improves function in shoulders with simulated massive rotator cuff tears. Clinical Biomechanics, 2006, 21, 942-949.	1.2	36
54	Orientation feedback during simulated simple translation tests has little clinical significance on the magnitude and precision of glenohumeral joint translations. Knee Surgery, Sports Traumatology, Arthroscopy, 2006, 14, 1194-1199.	4.2	5

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55	Thoracohumeral muscle activity alters glenohumeral joint biomechanics during active abduction. <i>Journal of Orthopaedic Research</i> , 2006, 24, 748-756.	2.3	37
56	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
57	Bi-directional mechanical properties of the posterior region of the glenohumeral capsule. <i>Journal of Biomechanics</i> , 2005, 38, 1365-1369.	2.1	28
58	Varying Femoral Tunnels between the Anatomical Footprint and Isometric Positions. <i>American Journal of Sports Medicine</i> , 2005, 33, 712-718.	4.2	303
59	A biomechanical comparison of arthroscopic sliding and sliding-locking knots. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2005, 21, 204-210.	2.7	76
60	Stability and instability of the glenohumeral joint: The role of shoulder muscles. <i>Journal of Shoulder and Elbow Surgery</i> , 2005, 14, S32-S38.	2.6	235
61	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
62	Reflexive Muscle Activation Alterations in Shoulders with Anterior Glenohumeral Instability. <i>American Journal of Sports Medicine</i> , 2004, 32, 1013-1021.	4.2	73
63	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
64	Thermal probes: What's available in 2004. <i>Operative Techniques in Sports Medicine</i> , 2004, 12, 206-209.	0.3	0
65	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
66	Active stability of the glenohumeral joint decreases in the apprehension position. <i>Clinical Biomechanics</i> , 2004, 19, 801-809.	1.2	27
67	Glenohumeral translations are increased after a type II superior labrum anterior-posterior lesion: a cadaveric study of severity of passive stabilizer injury. <i>Journal of Shoulder and Elbow Surgery</i> , 2004, 13, 39-44.	2.6	76
68	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
69	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
70	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
71	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
72	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

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73	Active Stability of the Glenohumeral Joint Decreases in the Apprehension Position. , 2003, , 213.		0
74	Operative treatment of labral lesions: arthroscopic versus open treatment. Current Opinion in Orthopaedics, 2003, 14, 93-98.	0.3	2
75	Shoulder Muscle Reflex Latencies Under Various Levels of Muscle Contraction. Clinical Orthopaedics and Related Research, 2003, 407, 92-101.	1.5	31
76	Glenohumeral Translations are Only Partially Restored after Repair of a Simulated Type II Superior Labral Lesion. American Journal of Sports Medicine, 2003, 31, 56-63.	4.2	63
77	A novel cadaveric model for anterior-inferior shoulder dislocation using forcible apprehension positioning. Journal of Rehabilitation Research and Development, 2003, 40, 349.	1.6	32
78	Elbow injuries. Current Opinion in Rheumatology, 2002, 14, 160-167.	4.3	23
79	Open Surgical Repair Restores Joint Forces That Resist Glenohumeral Dislocation. Clinical Orthopaedics and Related Research, 2002, 400, 58-64.	1.5	13
80	Muscles May Contribute to Shoulder Dislocation and Stability. Clinical Orthopaedics and Related Research, 2002, 403, S18-S25.	1.5	35
81	Shoulder Biomechanics and Muscle Plasticity: Implications in Spinal Cord Injury. Clinical Orthopaedics and Related Research, 2002, 403, S26-S36.	1.5	23
82	Variation in the Glenoid Origin of the Anteroinferior Glenohumeral Capsulolabrum. Clinical Orthopaedics and Related Research, 2002, 400, 26-31.	1.5	35
83	Gender Differences in Patellofemoral Joint Biomechanics. Clinical Orthopaedics and Related Research, 2002, 402, 260-269.	1.5	134
84	Cadaveric Study of Glenohumeral Translation Using Electromagnetic Sensors. Clinical Orthopaedics and Related Research, 2002, 400, 88-92.	1.5	18
85	Quantitative Assessment of Glenohumeral Translation. Clinical Orthopaedics and Related Research, 2002, 400, 93-97.	1.5	33
86	Numeral component revision of totalelbow arthroplasty with numeral bone deficiency. Operative Techniques in Orthopaedics, 2002, 12, 21-25.	0.1	0
87	Thermal capsuloplasty of the glenohumeral joint: Technique and results OF treatment. Operative Techniques in Sports Medicine, 2002, 10, 47-50.	0.3	0
88	Biomechanical Effects of Failure Modes in Repeated Anterior Inferior Glenohumeral Joint Dislocations. , 2002, , .		0
89	Effects of anteroinferior capsulolabral incision and resection on glenohumeral joint reaction force. Journal of Rehabilitation Research and Development, 2002, 39, 535-42.	1.6	13
90	The healing effects on the biomechanical properties of joint capsular tissue treated with ho:YAG laser. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2001, 17, 342-347.	2.7	28

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91	Arthroscopic suture tying. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2001, 17, 348-352.	2.7	61
92	Release of the coracoacromial ligament can lead to glenohumeral laxity: A biomechanical study. <i>Journal of Shoulder and Elbow Surgery</i> , 2001, 10, 68-72.	2.6	110
93	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
94	Precision of ACL Tunnel Placement Using Traditional and Robotic Techniques. <i>Computer Aided Surgery</i> , 2001, 6, 270-278.	1.8	55
95	Precision of ACL tunnel placement using traditional and robotic techniques. <i>Computer Aided Surgery</i> , 2001, 6, 270-278.	1.8	21
96	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
97	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
98	Electromyographic analysis of deltoid and rotator cuff function under varying loads and speeds. <i>Journal of Shoulder and Elbow Surgery</i> , 2000, 9, 47-58.	2.6	141
99	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
100	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
101	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
102	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
103	The painful shoulder. <i>Postgraduate Medicine</i> , 1999, 106, 36-49.	2.0	11
104	Effects of Simulated Scapular Protraction on Anterior Glenohumeral Stability. <i>American Journal of Sports Medicine</i> , 1999, 27, 801-805.	4.2	124
105	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
106	The anterior band of the inferior glenohumeral ligament: Biomechanical properties from tensile testing in the position of apprehension. <i>Journal of Shoulder and Elbow Surgery</i> , 1998, 7, 467-471.	2.6	70
107	Glenohumeral Joint Translation after Arthroscopic, Nonablative, Thermal Capsuloplasty with a Laser. <i>American Journal of Sports Medicine</i> , 1998, 26, 495-498.	4.2	112
108	Reconstruction of the Lateral Collateral Ligament of the Knee With Patellar Tendon Allograft. <i>American Journal of Sports Medicine</i> , 1998, 26, 656-662.	4.2	110

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109	Strain of the anterior band of the inferior glenohumeral ligament during capsule failure. Journal of Shoulder and Elbow Surgery, 1997, 6, 473-479.	2.6	63
110	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
111	Cubital tunnel syndrome. Operative Techniques in Sports Medicine, 1996, 4, 15-20.	0.3	15
112	A new dynamic testing apparatus to study glenohumeral joint motion. Journal of Biomechanics, 1995, 28, 869-874.	2.1	88
113	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
114	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
115	Soft-tissue injury as an indication of child abuse.. Journal of Bone and Joint Surgery - Series A, 1995, 77, 1179-1183.	3.0	98