

# Samuel R Ward, Pt

## List of Publications by Year in descending order

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Version: 2024-02-01

133  
papers

6,960  
citations

70961

41  
h-index

66788

78  
g-index

136  
all docs

136  
docs citations

136  
times ranked

6411  
citing authors

#	ARTICLE	IF	CITATIONS
1	Progression of muscle loss and fat accumulation in a rabbit model of rotator cuff tear. <i>Journal of Orthopaedic Research</i> , 2022, 40, 1016-1025.	1.2	9
2	The "Second Hit" of Repair in a Rabbit Model of Chronic Rotator Cuff Tear. <i>Frontiers in Physiology</i> , 2022, 13, 801829.	1.3	5
3	MIM Imaging of Paraspinal Muscles Following Moderate and High-Intensity Exercise in Healthy Individuals. <i>Frontiers in Rehabilitation Sciences</i> , 2022, 3, .	0.5	1
4	Paraspinal Muscle Health is Related to Fibrogenic, Adipogenic, and Myogenic Gene Expression in Patients with Lumbar Spine Pathology. <i>BMC Musculoskeletal Disorders</i> , 2022, 23, .	0.8	2
5	Sensor Anchoring Improves the Correlation Between Intramuscular Pressure and Muscle Tension in a Rabbit Model. <i>Annals of Biomedical Engineering</i> , 2021, 49, 912-921.	1.3	2
6	Surgical Mobilization of Skeletal Muscles Changes Functional Properties" Implications for Tendon Transfers. <i>Journal of Hand Surgery</i> , 2021, 46, 341.e1-341.e10.	0.7	2
7	Varying diffusion time to discriminate between simulated skeletal muscle injury models using stimulated echo diffusion tensor imaging. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 2524-2536.	1.9	9
8	Strategies to Identify Mesenchymal Stromal Cells in Minimally Manipulated Human Bone Marrow Aspirate Concentrate Lack Consensus. <i>American Journal of Sports Medicine</i> , 2021, 49, 1313-1322.	1.9	10
9	Ultrashort echo time adiabatic T1 $\rho$ (UTE-Adiab-T1 $\rho$ ) is sensitive to human cadaveric knee joint deformation induced by mechanical loading and unloading. <i>Magnetic Resonance Imaging</i> , 2021, 80, 98-105.	1.0	5
10	Transcriptional Time Course After Rotator Cuff Tear. <i>Frontiers in Physiology</i> , 2021, 12, 707116.	1.3	5
11	Letter to the Editor Re: "State of the art: proximal junctional kyphosis" diagnosis, management and prevention". <i>Spine Deformity</i> , 2021, , 1.	0.7	1
12	Paraspinal muscle morphology and composition in adolescent idiopathic scoliosis: A histological analysis. <i>JOR Spine</i> , 2021, 4, e1169.	1.5	16
13	Evaluating associations of joint swelling, joint stiffness and joint pain with physical activity in first-degree relatives of patients with rheumatoid arthritis: Studies of the Aetiology of Rheumatoid Arthritis (SERA), a prospective cohort study. <i>BMJ Open</i> , 2021, 11, e050883.	0.8	2
14	An Integrated Approach to Musculoskeletal Performance, Disease, and Recovery. <i>Physical Therapy</i> , 2021, 101, .	1.1	6
15	Supraspinatus muscle architecture and physiology in a rabbit model of tenotomy and repair. <i>Journal of Applied Physiology</i> , 2021, 131, 1708-1717.	1.2	2
16	p300 and cAMP response element-binding protein-binding protein in skeletal muscle homeostasis, contractile function, and survival. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2020, 11, 464-477.	2.9	18
17	Increased Fibrogenic Gene Expression in Multifidus Muscles of Patients With Chronic Versus Acute Lumbar Spine Pathology. <i>Spine</i> , 2020, 45, E189-E195.	1.0	22
18	Examination of the human motor endplate after brachial plexus injury with two-photon microscopy. <i>Muscle and Nerve</i> , 2020, 61, 390-395.	1.0	6

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19	Regional differences between superficial and deep lumbar multifidus in patients with chronic lumbar spine pathology. BMC Musculoskeletal Disorders, 2020, 21, 764.	0.8	10
20	In vivo supraspinatus muscle contractility and architecture in rabbit. Journal of Applied Physiology, 2020, 129, 1405-1412.	1.2	4
21	Letter to Editor and Response. Spine, 2020, 45, E973-E974.	1.0	0
22	Non-linear Scaling of Passive Mechanical Properties in Fibers, Bundles, Fascicles and Whole Rabbit Muscles. Frontiers in Physiology, 2020, 11, 211.	1.3	41
23	Multiparametric MRI characterization of level dependent differences in lumbar muscle size, quality, and microstructure. JOR Spine, 2020, 3, e1079.	1.5	4
24	Distal insertional anatomy of the triceps brachii muscle: MRI assessment in cadaveric specimens employing histologic correlation and Play-doh® models of the anatomic findings. Skeletal Radiology, 2020, 49, 1057-1067.	1.2	9
25	Cell populations and muscle fiber morphology associated with acute and chronic muscle degeneration in lumbar spine pathology. JOR Spine, 2020, 3, e1087.	1.5	14
26	Human motor endplate remodeling after traumatic nerve injury. Journal of Neurosurgery, 2020, 135, 220-227.	0.9	19
27	Intervertebral disc kinematics in active duty Marines with and without lumbar spine pathology. JOR Spine, 2019, 2, e1057.	1.5	0
28	The effect of high-intensity resistance exercise on lumbar musculature in patients with low back pain: a preliminary study. BMC Musculoskeletal Disorders, 2019, 20, 290.	0.8	27
29	Lumbar spine angles and intervertebral disc characteristics with end-range positions in three planes of motion in healthy people using upright MRI. Journal of Biomechanics, 2019, 89, 95-104.	0.9	10
30	Architecture of the Short External Rotator Muscles of the Hip. BMC Musculoskeletal Disorders, 2019, 20, 611.	0.8	17
31	The role of mechanobiology in progression of rotator cuff muscle atrophy and degeneration. Journal of Orthopaedic Research, 2018, 36, 546-556.	1.2	21
32	Integrated Exposure Therapy and Exercise Reduces Fear of Falling and Avoidance in Older Adults: A Randomized Pilot Study. American Journal of Geriatric Psychiatry, 2018, 26, 849-859.	0.6	29
33	Recovery of rat muscle size but not function more than 1 year after a single botulinum toxin injection. Muscle and Nerve, 2018, 57, 435-441.	1.0	22
34	Co-Expression Network Approach to Studying the Effects of Botulinum Neurotoxin-A. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2018, 15, 2009-2016.	1.9	3
35	Intraoperative and biomechanical studies of human vastus lateralis and vastus medialis sarcomere length operating range. Journal of Biomechanics, 2018, 67, 91-97.	0.9	20
36	Relationships between tissue microstructure and the diffusion tensor in simulated skeletal muscle. Magnetic Resonance in Medicine, 2018, 80, 317-329.	1.9	59

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37	Skeletal Muscle Atrophy and Degeneration in a Mouse Model of Traumatic Brain Injury. Journal of Neurotrauma, 2018, 35, 398-401.	1.7	18
38	Lumbar Muscle Structure Predicts Operational Postures in Active-Duty Marines. Journal of Orthopaedic and Sports Physical Therapy, 2018, 48, 613-621.	1.7	10
39	Methodological considerations in region of interest definitions for paraspinal muscles in axial MRIs of the lumbar spine. BMC Musculoskeletal Disorders, 2018, 19, 135.	0.8	41
40	Heterogeneous muscle gene expression patterns in patients with massive rotator cuff tears. PLoS ONE, 2018, 13, e0190439.	1.1	8
41	<sup />A 3D Tissue-Printing Approach for Validation of Diffusion Tensor Imaging in Skeletal Muscle. Tissue Engineering - Part A, 2017, 23, 980-988.	1.6	30
42	Histological Evidence of Muscle Degeneration in Advanced Human Rotator Cuff Disease. Journal of Bone and Joint Surgery - Series A, 2017, 99, 190-199.	1.4	70
43	Contribution of Lumbar Spine Pathology and Age to Paraspinal Muscle Size and Fatty Infiltration. Spine, 2017, 42, 616-623.	1.0	123
44	Lumbar multifidus muscle degenerates in individuals with chronic degenerative lumbar spine pathology. Journal of Orthopaedic Research, 2017, 35, 2700-2706.	1.2	88
45	Effect of Load Magnitude and Distribution on Lumbar Spine Posture in Active-duty Marines. Spine, 2017, 42, 345-351.	1.0	6
46	Lumbar spine postures in Marines during simulated operational positions. Journal of Orthopaedic Research, 2017, 35, 2145-2153.	1.2	13
47	Rotator cuff tear state modulates self-renewal and differentiation capacity of human skeletal muscle progenitor cells. Journal of Orthopaedic Research, 2017, 35, 1816-1823.	1.2	4
48	The effect of training on lumbar spine posture and intervertebral disc degeneration in active-duty Marines. Ergonomics, 2017, 60, 1055-1063.	1.1	5
49	Design Considerations of a Fiber Optic Pressure Sensor Protective Housing for Intramuscular Pressure Measurements. Annals of Biomedical Engineering, 2017, 45, 739-746.	1.3	13
50	Effect of body mass index on patient outcomes of surgical intervention for the lumbar spine. Journal of Spine Surgery, 2017, 3, 349-357.	0.6	28
51	Shoulder Muscle Architecture, Physiology, and Plasticity. , 2017, , 215-225.		0
52	Developmental Biology and Regenerative Medicine: Addressing the Vexing Problem of Persistent Muscle Atrophy in the Chronically Torn Human Rotator Cuff. Physical Therapy, 2016, 96, 722-733.	1.1	12
53	Muscle architectural changes after massive human rotator cuff tear. Journal of Orthopaedic Research, 2016, 34, 2089-2095.	1.2	21
54	Activity, balance, learning, and exposure (ABLE): a new intervention for fear of falling. International Journal of Geriatric Psychiatry, 2016, 31, 791-798.	1.3	29

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55	Regional Ulnar Nerve Strain Following Decompression and Anterior Subcutaneous Transposition in Patients With Cubital Tunnel Syndrome. <i>Journal of Hand Surgery</i> , 2016, 41, e343-e350.	0.7	16
56	Sarcomere length distribution quantification in whole muscle frozen sections. <i>Journal of Experimental Biology</i> , 2016, 219, 1432-6.	0.8	15
57	Understanding Mechanobiology: Physical Therapists as a Force in Mechanotherapy and Musculoskeletal Regenerative Rehabilitation. <i>Physical Therapy</i> , 2016, 96, 560-569.	1.1	72
58	Perm1 enhances mitochondrial biogenesis, oxidative capacity, and fatigue resistance in adult skeletal muscle. <i>FASEB Journal</i> , 2016, 30, 674-687.	0.2	46
59	An Endplate-Based Joint Coordinate System for Measuring Kinematics in Normal and Abnormally-Shaped Lumbar Vertebrae. <i>Journal of Applied Biomechanics</i> , 2015, 31, 499-503.	0.3	6
60	Dramatic changes in muscle contractile and structural properties after 2 botulinum toxin injections. <i>Muscle and Nerve</i> , 2015, 52, 649-657.	1.0	46
61	Architectural and Biochemical Adaptations in Skeletal Muscle and Bone Following Rotator Cuff Injury in a Rat Model. <i>Journal of Bone and Joint Surgery - Series A</i> , 2015, 97, 565-573.	1.4	15
62	Epimuscular Fat in the Human Rotator Cuff Is a Novel Beige Depot. <i>Stem Cells Translational Medicine</i> , 2015, 4, 764-774.	1.6	24
63	The role of the peripheral and central nervous systems in rotator cuff disease. <i>Journal of Shoulder and Elbow Surgery</i> , 2015, 24, 1322-1335.	1.2	45
64	Muscle progenitor cell regenerative capacity in the torn rotator cuff. <i>Journal of Orthopaedic Research</i> , 2015, 33, 421-429.	1.2	27
65	Chronic Degeneration Leads to Poor Healing of Repaired Massive Rotator Cuff Tears in Rats. <i>American Journal of Sports Medicine</i> , 2015, 43, 2401-2410.	1.9	69
66	High resolution muscle measurements provide insights into equinus contractures in patients with cerebral palsy. <i>Journal of Orthopaedic Research</i> , 2015, 33, 33-39.	1.2	84
67	Anatomic Evaluation of the Sacroiliac Joint: A Radiographic Study with Implications for Procedures. <i>Pain Physician</i> , 2015, 18, 583-92.	0.3	24
68	Comparison of rotator cuff muscle architecture among humans and selected vertebrate species. <i>Journal of Experimental Biology</i> , 2014, 217, 261-73.	0.8	50
69	Muscle Gene Expression Patterns in Human Rotator Cuff Pathology. <i>Journal of Bone and Joint Surgery - Series A</i> , 2014, 96, 1558-1565.	1.4	28
70	The effects of chronic unloading and gap formation on tendon-to-bone healing in a rat model of massive rotator cuff tears. <i>Journal of Orthopaedic Research</i> , 2014, 32, 439-447.	1.2	49
71	Skeletal muscle fibrosis and stiffness increase after rotator cuff tendon injury and neuromuscular compromise in a rat model. <i>Journal of Orthopaedic Research</i> , 2014, 32, 1111-1116.	1.2	55
72	Architectural design of the pelvic floor is consistent with muscle functional subspecialization. <i>International Urogynecology Journal</i> , 2014, 25, 205-212.	0.7	24

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73	Systems analysis of transcriptional data provides insights into muscle's biological response to botulinum toxin. <i>Muscle and Nerve</i> , 2014, 50, 744-758.	1.0	33
74	Systematic test of neurotoxin dose and volume on muscle function in a rat model. <i>Muscle and Nerve</i> , 2014, 49, 709-715.	1.0	10
75	Effect of Supraspinatus Tendon Injury on Supraspinatus and Infraspinatus Muscle Passive Tension and Associated Biochemistry. <i>Journal of Bone and Joint Surgery - Series A</i> , 2014, 96, e175.	1.4	28
76	Comparison of pelvic muscle architecture between humans and commonly used laboratory species. <i>International Urogynecology Journal</i> , 2014, 25, 1507-1515.	0.7	30
77	The effect of age on rat rotator cuff muscle architecture. <i>Journal of Shoulder and Elbow Surgery</i> , 2014, 23, 1786-1791.	1.2	16
78	Cellular Mechanisms of Tissue Fibrosis. 4. Structural and functional consequences of skeletal muscle fibrosis. <i>American Journal of Physiology - Cell Physiology</i> , 2013, 305, C241-C252.	2.1	233
79	Intrinsic foot muscle deterioration is associated with metatarsophalangeal joint angle in people with diabetes and neuropathy. <i>Clinical Biomechanics</i> , 2013, 28, 1055-1060.	0.5	55
80	Magnetic Resonance Imaging-Based Topographical Differences Between Control and Recurrent Patellofemoral Instability Patients. <i>American Journal of Sports Medicine</i> , 2013, 41, 374-384.	1.9	120
81	Effect of Load Carriage on Lumbar Spine Kinematics. <i>Spine</i> , 2013, 38, E783-E791.	1.0	41
82	On Sources of Error in Finite Element Simulations of Blast Effects in the Human Brain. <i>Journal of Computational and Nonlinear Dynamics</i> , 2012, 7, .	0.7	5
83	Capsular Ligaments of the Hip: Anatomic, Histologic, and Positional Study in Cadaveric Specimens with MR Arthrography. <i>Radiology</i> , 2012, 263, 189-198.	3.6	92
84	Passive mechanical properties of rat abdominal wall muscles suggest an important role of the extracellular connective tissue matrix. <i>Journal of Orthopaedic Research</i> , 2012, 30, 1321-1326.	1.2	36
85	Muscle excursion does not correlate with increased serial sarcomere number after muscle adaptation to stretched tendon transfer. <i>Journal of Orthopaedic Research</i> , 2012, 30, 1774-1780.	1.2	14
86	Human skeletal muscle biochemical diversity. <i>Journal of Experimental Biology</i> , 2012, 215, 2551-2559.	0.8	52
87	Patient Perception of Physician Reimbursement in Elective Total Hip and Knee Arthroplasty. <i>Journal of Arthroplasty</i> , 2012, 27, 703-709.	1.5	28
88	Passive mechanical properties and related proteins change with botulinum neurotoxin A injection of normal skeletal muscle. <i>Journal of Orthopaedic Research</i> , 2012, 30, 497-502.	1.2	44
89	Biochemical diversity of human skeletal muscle. <i>FASEB Journal</i> , 2012, 26, 1141.2.	0.2	0
90	ISSLS Prize Winner. <i>Spine</i> , 2011, 36, 1728-1736.	1.0	54

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91	Psoas Muscle Architectural Design, In Vivo Sarcomere Length Range, and Passive Tensile Properties Support Its Role as a Lumbar Spine Stabilizer. <i>Spine</i> , 2011, 36, E1666-E1674.	1.0	48
92	Hamstring contractures in children with spastic cerebral palsy result from a stiffer extracellular matrix and increased <i>in vivo</i> sarcomere length. <i>Journal of Physiology</i> , 2011, 589, 2625-2639.	1.3	353
93	Ultrasound assessment of the lateral collateral ligamentous complex of the elbow: imaging aspects in cadavers and normal volunteers. <i>European Radiology</i> , 2011, 21, 1492-1498.	2.3	37
94	Whole muscle length-tension relationships are accurately modeled as scaled sarcomeres in rabbit hindlimb muscles. <i>Journal of Biomechanics</i> , 2011, 44, 109-115.	0.9	116
95	Skeletal muscle design to meet functional demands. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2011, 366, 1466-1476.	1.8	251
96	Architectural Analysis of Human Abdominal Wall Muscles. <i>Spine</i> , 2010, 36, 1.	1.0	47
97	Regional Myosin Heavy Chain Distribution in Selected Paraspinal Muscles. <i>Spine</i> , 2010, 35, 1265-1270.	1.0	19
98	A Model of the Lower Limb for Analysis of Human Movement. <i>Annals of Biomedical Engineering</i> , 2010, 38, 269-279.	1.3	659
99	Architectural and morphological assessment of rat abdominal wall muscles: comparison for use as a human model. <i>Journal of Anatomy</i> , 2010, 217, 196-202.	0.9	25
100	The Architectural Design of the Gluteal Muscle Group: Implications for Movement and Rehabilitation. <i>Journal of Orthopaedic and Sports Physical Therapy</i> , 2010, 40, 95-102.	1.7	81
101	Plasticity of Muscle Architecture After Supraspinatus Tears. <i>Journal of Orthopaedic and Sports Physical Therapy</i> , 2010, 40, 729-735.	1.7	49
102	Theoretical Predictions of the Effects of Force Transmission by Desmin on Intersarcomere Dynamics. <i>Biophysical Journal</i> , 2010, 98, 258-266.	0.2	24
103	Mechanical Strength of the Side-to-Side Versus Pulvertaft Weave Tendon Repair. <i>Journal of Hand Surgery</i> , 2010, 35, 540-545.	0.7	102
104	Mechanical Feasibility of Immediate Mobilization of the Brachioradialis Muscle After Tendon Transfer. <i>Journal of Hand Surgery</i> , 2010, 35, 1473-1478.	0.7	21
105	Correlation between isometric force and intramuscular pressure in rabbit tibialis anterior muscle with an intact anterior compartment. <i>Muscle and Nerve</i> , 2009, 40, 79-85.	1.0	29
106	Are Current Measurements of Lower Extremity Muscle Architecture Accurate?. <i>Clinical Orthopaedics and Related Research</i> , 2009, 467, 1074-1082.	0.7	520
107	Passive mechanical properties of the lumbar multifidus muscle support its role as a stabilizer. <i>Journal of Biomechanics</i> , 2009, 42, 1384-1389.	0.9	97
108	A novel muscle biopsy clamp yields accurate <i>in vivo</i> sarcomere length values. <i>Journal of Biomechanics</i> , 2009, 42, 193-196.	0.9	21

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109	Architectural Analysis and Intraoperative Measurements Demonstrate the Unique Design of the Multifidus Muscle for Lumbar Spine Stability. <i>Journal of Bone and Joint Surgery - Series A</i> , 2009, 91, 176-185.	1.4	221
110	Scaling of muscle architecture and fiber types in the rat hindlimb. <i>Journal of Experimental Biology</i> , 2008, 211, 2336-2345.	0.8	155
111	Quantitative analysis of neonatal skeletal muscle functional improvement in the mouse. <i>Journal of Experimental Biology</i> , 2008, 211, 837-843.	0.8	98
112	Functional recovery of muscles after minimally invasive total hip arthroplasty. <i>Instructional Course Lectures</i> , 2008, 57, 249-54.	0.2	25
113	Patella Alta. <i>Journal of Bone and Joint Surgery - Series A</i> , 2007, 89, 1749-1755.	1.4	143
114	Intraoperative Single-Site Sarcomere Length Measurement Accurately Reflects Whole-Muscle Sarcomere Length in the Rabbit. <i>Journal of Hand Surgery</i> , 2007, 32, 612-617.	0.7	13
115	Relationship between muscle stress and intramuscular pressure during dynamic muscle contractions. <i>Muscle and Nerve</i> , 2007, 36, 313-319.	1.0	22
116	Muscle geometry affects accuracy of forearm volume determination by magnetic resonance imaging (MRI). <i>Journal of Biomechanics</i> , 2007, 40, 3261-3266.	0.9	24
117	Increased efficacy and decreased systemic effects of botulinum toxin A injection after active or passive muscle manipulation. <i>Developmental Medicine and Child Neurology</i> , 2007, 49, 907-914.	1.1	49
118	Patella Alta. <i>Journal of Bone and Joint Surgery - Series A</i> , 2007, 89, 1749-1755.	1.4	3
119	Dorsal Transfer of the Brachioradialis to the Flexor Pollicis Longus Enables Simultaneous Powering of Key Pinch and Forearm Pronation. <i>Journal of Hand Surgery</i> , 2006, 31, 993-997.	0.7	17
120	Concurrent Criterion-Related Validity and Reliability of a Clinical Device Used to Assess Lateral Patellar Displacement. <i>Journal of Orthopaedic and Sports Physical Therapy</i> , 2006, 36, 645-652.	1.7	20
121	Postoperative Pain Management Following Total Knee Arthroplasty: A Randomized Comparison of Continuous Epidural Versus Femoral Nerve Infusion. <i>Journal of Knee Surgery</i> , 2006, 19, 137-143.	0.9	16
122	High Stiffness of Human Digital Flexor Tendons Is Suited for Precise Finger Positional Control. <i>Journal of Neurophysiology</i> , 2006, 96, 2815-2818.	0.9	28
123	Density and hydration of fresh and fixed human skeletal muscle. <i>Journal of Biomechanics</i> , 2005, 38, 2317-2320.	0.9	209
124	Influence of patella alta on knee extensor mechanics. <i>Journal of Biomechanics</i> , 2005, 38, 2415-2422.	0.9	60
125	Sarcomere length measurement permits high resolution normalization of muscle fiber length in architectural studies. <i>Journal of Experimental Biology</i> , 2005, 208, 3275-3279.	0.8	71
126	Pronator Teres Is an Appropriate Donor Muscle for Restoration of Wrist and Thumb Extension. <i>Journal of Hand Surgery</i> , 2005, 30, 1068-1073.	0.7	25



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127	The Effect of Bracing on Patellofemoral Joint Stress during Free and Fast Walking. American Journal of Sports Medicine, 2004, 32, 224-231.	1.9	62
128	The influence of patella alta on patellofemoral joint stress during normal and fast walking. Clinical Biomechanics, 2004, 19, 1040-1047.	0.5	130
129	The Effect of Bracing on Patella Alignment and Patellofemoral Joint Contact Area. Medicine and Science in Sports and Exercise, 2004, 36, 1226-1232.	0.2	98
130	Effect of Bracing on Patellofemoral Joint Stress While Ascending and Descending Stairs. Clinical Journal of Sport Medicine, 2004, 14, 206-214.	0.9	43
131	Quantification of patellofemoral joint contact area using magnetic resonance imaging. Magnetic Resonance Imaging, 2003, 21, 955-959.	1.0	49
132	Patellofemoral Kinematics During Weight-Bearing and Non-Weight-Bearing Knee Extension in Persons With Lateral Subluxation of the Patella: A Preliminary Study. Journal of Orthopaedic and Sports Physical Therapy, 2003, 33, 677-685.	1.7	302
133	Assessment of patellofemoral relationships using kinematic MRI: Comparison between qualitative and quantitative methods. Journal of Magnetic Resonance Imaging, 2002, 16, 69-74.	1.9	41