Joseph J Crisco

List of Publications by Year
in descending order

195	10,030	31976	40979
papers	citations	53 h-index	93 g-index

197	197	197	5582
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mechanical Properties of the Human Cervical Spine as Shown by Three-Dimensional Loadâ€“Displacement Curves. Spine, 2001, 26, 2692-2700.	2.0	423
2	Biomechanical Evaluation of Lumbar Spinal Stability After Graded Facetectomies. Spine, 1990, 15, 1142-1147.	2.0	422
3	HEAD IMPACT SEVERITY MEASURES FOR EVALUATING MILD TRAUMATIC BRAIN INJURY RISK EXPOSURE. Neurosurgery, 2008, 62, 789-798.	1.1	373
4	Frequency and Location of Head Impact Exposures in Individual Collegiate Football Players. Journal of Athletic Training, 2010, 45, 549-559.	1.8	354
5	Analysis of Real-time Head Accelerations in Collegiate Football Players. Clinical Journal of Sport Medicine, 2005, 15, 3-8.	1.8	353
6	Rotational Head Kinematics in Football Impacts: An Injury Risk Function for Concussion. Annals of Biomedical Engineering, 2012, 40, 1-13.	2.5	350
7	Biomechanical Evaluation of Four Different Posterior Atlantoaxial Fixation Techniques. Spine, 1992, 17, 480-490.	2.0	348
8	Xâ€ray reconstruction of moving morphology (XROMM): precision, accuracy and applications in comparative biomechanics research. Journal of Experimental Zoology, 2010, 313A, 262-279.	1.2	310
9	Head impact exposure in collegiate football players. Journal of Biomechanics, 2011, 44, 2673-2678.	2.1	230
10	In Vivo Radiocarpal Kinematics and the Dart ThrowerÊ¼s Motion. Journal of Bone and Joint Surgery - Series A, 2005, 87, 2729-2740.	3.0	188
11	A Muscle Contusion Injury Model. American Journal of Sports Medicine, 1994, 22, 702-710.	4.2	181
12	In vivo scaphoid, lunate, and capitate kinematics in flexion and in extension. Journal of Hand Surgery, 2000, 25, 860-869.	1.6	166
13	The Dart-Throwing Motion of the Wrist: Is It Unique to Humans?. Journal of Hand Surgery, 2006, 31, 1429-1437.	1.6	151
14	An Algorithm for Estimating Acceleration Magnitude and Impact Location Using Multiple Nonorthogonal Single-Axis Accelerometers. Journal of Biomechanical Engineering, 2004, 126, 849-854.	1.3	150
15	Head Impact Exposure Sustained by Football Players on Days of Diagnosed Concussion. Medicine and Science in Sports and Exercise, 2013, 45, 737-746.	0.4	140
16	Noninvasive technique for measuringin vivo three-dimensional carpal bone kinematics. Journal of Orthopaedic Research, 1999, 17, 96-100.	2.3	127
17	Spectrum of acute clinical characteristics of diagnosed concussions in college athletes wearing instrumented helmets. Journal of Neurosurgery, 2012, 117, 1092-1099.	1.6	119
18	A Comparison of the Pressure Exerted on Soft Tissue by 2 Myofascial Rollers. Journal of Sport Rehabilitation, 2008, 17, 432-442.	1.0	118

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19	Can helmet design reduce the risk of concussion in football?. Journal of Neurosurgery, 2014, 120, 919-922.	1.6	118
20	Kinematic differences between optical motion capture and biplanar videoradiography during a jumpâ€“cut maneuver. Journal of Biomechanics, 2013, 46, 567-573.	2.1	110
21	Segmentation of carpal bones from CT images using skeletally coupled deformable models. Medical Image Analysis, 2003, 7, 21-45.	11.6	109
22	The Mechanical Axes of the Wrist Are Oriented Obliquely to the Anatomical Axes. Journal of Bone and Joint Surgery - Series A, 2011, 93, 169-177.	3.0	105
23	In vivo kinematic behavior of the radio-capitate joint during wrist flexionâ€“extension and radio-ulnar deviation. Journal of Biomechanics, 2001, 34, 1429-1438.	2.1	100
24	On the Understanding of Clinical Instability. Spine, 1994, 19, 2642-2650.	2.0	99
25	Coefficients of friction, lubricin, and cartilage damage in the anterior cruciate ligamentâ€deficient guinea pig knee. Journal of Orthopaedic Research, 2008, 26, 231-237.	2.3	99
26	Magnitude of Head Impact Exposures in Individual Collegiate Football Players. Journal of Applied Biomechanics, 2012, 28, 174-183.	0.8	99
27	Static and Dynamic Error of a Biplanar Videoradiography System Using Marker-Based and Markerless Tracking Techniques. Journal of Biomechanical Engineering, 2011, 133, 121002.	1.3	98
28	Automatic determination of anatomical coordinate systems for three-dimensional bone models of the isolated human knee. Journal of Biomechanics, 2010, 43, 1623-1626.	2.1	91
29	Timing of Concussion Diagnosis Is Related to Head Impact Exposure Prior to Injury. Medicine and Science in Sports and Exercise, 2013, 45, 747-754.	0.4	91
30	Gender Differences in Head Impacts Sustained by Collegiate Ice Hockey Players. Medicine and Science in Sports and Exercise, 2012, 44, 297-304.	0.4	87
31	Head impact exposure in male and female collegiate ice hockey players. Journal of Biomechanics, 2014, 47, 109-114.	2.1	86
32	IN VIVO RADIOCARPAL KINEMATICS AND THE DART THROWERÊ¼S MOTION. Journal of Bone and Joint Surgery - Series A, 2005, 87, 2729-2740.	3.0	86
33	Effects of Posture and Structure on Three-Dimensional Coupled Rotations in the Lumbar Spine. Spine, 1996, 21, 2421-2428.	2.0	81
34	The Volar Extension of the Lunate Facet of the Distal Radius: A Quantitative Anatomic Study. Journal of Hand Surgery, 2006, 31, 892-895.	1.6	78
35	Accuracy of circular contact area measurements with thin-film pressure sensors. Journal of Biomechanics, 2007, 40, 2569-2572.	2.1	78
36	Posture affects motion coupling patterns of the upper cervical spine. Journal of Orthopaedic Research, 1993, 11, 525-536.	2.3	77

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37	Subfailure injury of the rabbit anterior cruciate ligament. Journal of Orthopaedic Research, 1996, 14, 216-222.	2.3	77
38	Experimental Study of Atlas Injuries I. Spine, 1991, 16, S460-S465.	2.0	74
39	Estimating Joint Contact Areas and Ligament Lengths From Bone Kinematics and Surfaces. IEEE Transactions on Biomedical Engineering, 2004, 51, 790-799.	4.2	74
40	Effects of distal radius malunion on distal radioulnar joint mechanicsâ€”an in vivo study. Journal of Orthopaedic Research, 2007, 25, 547-555.	2.3	70
41	In Vivo Kinematics of the Scaphoid, Lunate, Capitate, and Third Metacarpal in Extreme Wrist Flexion and Extension. Journal of Hand Surgery, 2013, 38, 278-288.	1.6	64
42	In Vivo Kinematics of the Thumb Carpometacarpal Joint During Three Isometric Functional Tasks. Clinical Orthopaedics and Related Research, 2014, 472, 1114-1122.	1.5	64
43	Experimental Study of Atlas Injuries II. Spine, 1991, 16, S466-S473.	2.0	60
44	A Computational Approach to the â€œOptimalâ€•Screw Axis Location and Orientation in the Scaphoid Bone. Journal of Hand Surgery, 2009, 34, 677-684.	1.6	60
45	Carpal bone size and scaling in men versus in women. Journal of Hand Surgery, 2005, 30, 35-42.	1.6	59
46	Head-Impact Mechanisms in Men's and Women's Collegiate Ice Hockey. Journal of Athletic Training, 2014, 49, 514-520.	1.8	59
47	InÂVivo Kinematics of the Trapeziometacarpal Joint During Thumb Extension-Flexion and Abduction-Adduction. Journal of Hand Surgery, 2015, 40, 289-296.	1.6	59
48	A digital database of wrist bone anatomy and carpal kinematics. Journal of Biomechanics, 2007, 40, 2537-2542.	2.1	57
49	Simulated Radioscapholunate Fusion Alters Carpal Kinematics While Preserving Dart-Thrower's Motion. Journal of Hand Surgery, 2008, 33, 503-510.	1.6	57
50	Optimal marker placement for calculating the instantaneous center of rotation. Journal of Biomechanics, 1994, 27, 1183-1187.	2.1	56
51	Knee Laxity Does Not Vary with the Menstrual Cycle, before or after Exercise. American Journal of Sports Medicine, 2004, 32, 1150-1157.	4.2	56
52	Quantification of meniscal volume by segmentation of 3 T magnetic resonance images. Journal of Biomechanics, 2007, 40, 2811-2815.	2.1	56
53	The morphology of the thumb carpometacarpal joint does not differ between men and women, but changes with aging and early osteoarthritis. Journal of Biomechanics, 2014, 47, 2709-2714.	2.1	56
54	The Effect of Wrist Guards on Bone Strain in the Distal Forearm. American Journal of Sports Medicine, 1999, 27, 500-506.	4.2	55

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55	Physiologic weight-bearing increases new vessel formation during distraction osteogenesis: A micro-tomographic imaging study. Journal of Orthopaedic Research, 2003, 21, 489-496.	2.3	53
56	In Vivo Elongation of the Palmar and Dorsal Scapholunate Interosseous Ligament. Journal of Hand Surgery, 2006, 31, 1326-1332.	1.6	52
57	The mechanical properties of human alar and transverse ligaments at slow and fast extension rates. Clinical Biomechanics, 1998, 13, 112-120.	1.2	51
58	Coordinate systems for the carpal bones of the wrist. Journal of Biomechanics, 2007, 40, 203-209.	2.1	51
59	Transections of the C1-C2 Joint Capsular Ligaments in the Cadaveric Spine. Spine, 1991, 16, S474-S479.	2.0	50
60	Metacarpophalangeal joint mechanics after 3 different silicone arthroplasties. Journal of Hand Surgery, 2004, 29, 796-803.	1.6	50
61	The 2014 ABJS Nicolas Andry Award: The Puzzle of the Thumb: Mobility, Stability, and Demands in Opposition. Clinical Orthopaedics and Related Research, 2014, 472, 3605-3622.	1.5	50
62	Carpal and Forearm Kinematics During a Simulated Hammering Task. Journal of Hand Surgery, 2010, 35, 1097-1104.	1.6	49
63	A model of the alar ligaments of the upper cervical spine in axial rotation. Journal of Biomechanics, 1991, 24, 607-614.	2.1	48
64	Biomechanics of head impacts associated with diagnosed concussion in female collegiate ice hockey players. Journal of Biomechanics, 2015, 48, 2201-2204.	2.1	47
65	Super-resolution registration using tissue-classified distance fields. IEEE Transactions on Medical Imaging, 2006, 25, 177-187.	8.9	46
66	An Investigation of the NOCSAE Linear Impactor Test Method Based on In Vivo Measures of Head Impact Acceleration in American Football. Journal of Biomechanical Engineering, 2010, 132, 011006.	1.3	45
67	Static and Dynamic Properties of Various Baseballs. Journal of Applied Biomechanics, 1998, 14, 390-400.	0.8	44
68	Development of a Concussion Risk Function for a Youth Population Using Head Linear and Rotational Acceleration. Annals of Biomedical Engineering, 2020, 48, 92-103.	2.5	44
69	Bone graft translation of four upper cervical spine fixation techniques in a cadaveric model. Journal of Orthopaedic Research, 1991, 9, 835-846.	2.3	42
70	Estimated Brain Tissue Response Following Impacts Associated With and Without Diagnosed Concussion. Annals of Biomedical Engineering, 2018, 46, 819-830.	2.5	42
71	Critical Glenoid Bone Loss in Posterior Shoulder Instability. American Journal of Sports Medicine, 2018, 46, 1058-1063.	4.2	42
72	Three-dimensional in vivo kinematics of the distal radioulnar joint in malunited distal radius fractures. Journal of Hand Surgery, 2002, 27, 233-242.	1.6	41

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73	Carpal bone postures and motions are abnormal in both wrists of patients with unilateral scapholunate interosseous ligament tears. Journal of Hand Surgery, 2003, 28, 926-937.	1.6	41
74	Wrist Kinematic Coupling and Performance During Functional Tasks: Effects of Constrained Motion. Journal of Hand Surgery, 2014, 39, 634-642.e1.	1.6	41
75	Weaker Functional Pinch Strength Is Associated With Early Thumb Carpometacarpal Osteoarthritis. Clinical Orthopaedics and Related Research, 2016, 474, 557-561.	1.5	41
76	Differences in Batted Ball Speed with Wood and Aluminum Baseball Bats: A Batting Cage Study. Journal of Applied Biomechanics, 2001, 17, 241-252.	0.8	40
77	The multidirectional bending properties of the human lumbar intervertebral disc. Spine Journal, 2006, 6, 248-257.	1.3	40
78	Strain-rate sensitivity of the rabbit MCL diminishes at traumatic loading rates. Journal of Biomechanics, 2002, 35, 1379-1385.	2.1	39
79	In vivo motion of the scaphotrapezioâ€“trapezoidal (STT) joint. Journal of Biomechanics, 2004, 37, 645-652.	2.1	39
80	Batting performance of wood and metal baseball bats. Medicine and Science in Sports and Exercise, 2002, 34, 1675-1684.	0.4	37
81	A thumb carpometacarpal joint coordinate system based on articular surface geometry. Journal of Biomechanics, 2013, 46, 1031-1034.	2.1	36
82	The thumb carpometacarpal joint: anatomy, hormones, and biomechanics. Instructional Course Lectures, 2013, 62, 165-79.	0.2	36
83	Kinematics of the scaphoid shift test. Journal of Hand Surgery, 1997, 22, 801-806.	1.6	35
84	Advances in the in vivo measurement of carpal kinematics. Orthopedic Clinics of North America, 2001, 32, 219-231.	1.2	35
85	A Proposed Method to Reduce Underreporting of Brain Injury in Sports. Clinical Journal of Sport Medicine, 2012, 22, 83-85.	1.8	34
86	Computer-Assisted Navigation of Volar Percutaneous Scaphoid Placement. Journal of Hand Surgery, 2009, 34, 1722-1728.	1.6	32
87	Let's Get the Head Further Out of the Game. Current Sports Medicine Reports, 2011, 10, 7-9.	1.2	32
88	Cyclic loading increases friction and changes cartilage surface integrity in lubricinâ€mutant mouse knees. Arthritis and Rheumatism, 2012, 64, 465-473.	6.7	32
89	Multidirectional Instabilities of Experimental Burst Fractures of the Atlas. Spine, 1992, 17, 1285-1290.	2.0	31
90	Interfragmentary Motion in Patients With Scaphoid Nonunion. Journal of Hand Surgery, 2008, 33, 1108-1115.	1.6	31

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91	The effects of exercise on ligamentous stiffness in the wrist. Journal of Hand Surgery, 1997, 22, 44-48.	1.6	30
92	Preformed grafts of porcine small intestine submucosa (SIS) for bridging segmental bone defects. Journal of Biomedical Materials Research Part B, 2004, 69A, 259-266.	3.1	30
93	In vivo recruitment patterns in the anterior oblique and dorsoradial ligaments of the first carpometacarpal joint. Journal of Biomechanics, 2015, 48, 1893-1898.	2.1	30
94	Accuracy of Plain Radiographs Versus 3D Analysis of Ankle Stress Test. Foot and Ankle International, 2011, 32, 994-999.	2.3	29
95	Studying Primate Carpal Kinematics in Three Dimensions Using a Computedâ€Tomographyâ€Based Markerless Registration Method. Anatomical Record, 2010, 293, 692-709.	1.4	28
96	A method for defining carpometacarpal joint kinematics from three-dimensional rotations of the metacarpal bones captured in vivo using computed tomography. Journal of Biomechanics, 2013, 46, 2104-2108.	2.1	28
97	The Advantage of Throwing the First Stone: How Understanding the Evolutionary Demands of Homo sapiens Is Helping Us Understand Carpal Motion. Journal of the American Academy of Orthopaedic Surgeons, The, 2010, 18, 51-58.	2.5	27
98	Interpolating Three-Dimensional Kinematic Data Using Quaternion Splines and Hermite Curves. Journal of Biomechanical Engineering, 2005, 127, 311-317.	1.3	26
99	Is early osteoarthritis associated with differences in joint congruence?. Journal of Biomechanics, 2014, 47, 3787-3793.	2.1	26
100	Early osteoarthritis of the trapeziometacarpal joint is not associated with joint instability during typical isometric loading. Journal of Orthopaedic Research, 2015, 33, 1639-1645.	2.3	26
101	Assuming exponential decay by incorporating viscous damping improves the prediction of the coeffcient of friction in pendulum tests of whole articular joints. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2007, 221, 325-333.	1.8	25
102	Sports-Specific Issues in Menâ€™s and Womenâ€™s Lacrosse. Current Sports Medicine Reports, 2014, 13, 334-340.	1.2	24
103	Three-Dimensional Translational Movements of the Upper Cervical Spine. Journal of Spinal Disorders, 1991, 4, 411-419.	1.1	23
104	Gender Differences in Capitate Kinematics are Eliminated After Accounting for Variation in Carpal Size. Journal of Biomechanical Engineering, 2008, 130, 041003.	1.3	23
105	The Envelope of Physiological Motion of the First Carpometacarpal Joint. Journal of Biomechanical Engineering, 2015, 137, 101002.	1.3	23
106	Biomechanical Comparison of the Long Head of the Biceps Tendon Versus Conjoint Tendon Transfer in a Bone Loss Shoulder Instability Model. Orthopaedic Journal of Sports Medicine, 2019, 7, 232596711988354.	1.7	23
107	In Vivo Triquetrum-Hamate Kinematics Through a Simulated Hammering Task Wrist Motion. Journal of Bone and Joint Surgery - Series A, 2012, 94, e85.	3.0	22
108	Differential expression of type X collagen in a mechanically active 3-D chondrocyte culture system: a quantitative study. Journal of Orthopaedic Surgery and Research, 2006, 1, 15.	2.3	20

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109	Comparison of two methods for calculating the frictional properties of articular cartilage using a simple pendulum and intact mouse knee joints. Journal of Biomechanics, 2009, 42, 1996-1999.	2.1	20
110	Resorbable Fillers Reduce Stress Risers From Empty Screw Holes. Journal of Trauma, 2007, 63, 647-654.	2.3	19
111	The dynamic flexion/extension properties of the lumbar spine in vitro using a novel pendulum system. Journal of Biomechanics, 2007, 40, 2767-2773.	2.1	19
112	Older asymptomatic women exhibit patterns of thumb carpometacarpal joint space narrowing that precede changes associated with early osteoarthritis. Journal of Biomechanics, 2015, 48, 3634-3640.	2.1	19
113	Ulnar Styloid Base Fractures Cause Distal Radioulnar Joint Instability in a Cadaveric Model. Hand, 2018, 13, 65-73.	1.2	19
114	Predicting Carpal Bone Kinematics Using an Expanded Digital Database of Wrist Carpal Bone Anatomy and Kinematics. Journal of Orthopaedic Research, 2019, 37, 2661-2670.	2.3	19
115	The Injured Canine Cervical Spine After Six Months of Healing. Spine, 1990, 15, 1047-1052.	2.0	18
116	A Kinematics-Based Method For Generating Cartilage Maps and Deformations in the Multi-Articulating Wrist Joint From CT Images. , 2006, 2006, 2079-82.		17
117	Conformational Changes in the Carpus During Finger Trap Distraction. Journal of Hand Surgery, 2010, 35, 237-244.	1.6	17
118	A comparative study of baseball bat performance. Sports Engineering, 2011, 13, 153-162.	1.1	17
119	In Vivo Biomechanical Measurements of a Football Player's C6 Spine Fracture. New England Journal of Medicine, 2011, 365, 279-281.	27.0	17
120	Automatic determination of an anatomical coordinate system for a three-dimensional model of the human patella. Journal of Biomechanics, 2013, 46, 2093-2096.	2.1	17
121	Accuracy of biplane videoradiography for quantifying dynamic wrist kinematics. Journal of Biomechanics, 2019, 92, 120-125.	2.1	17
122	Elongation of the Dorsal Carpal Ligaments: A Computational Study of In Vivo Carpal Kinematics. Journal of Hand Surgery, 2012, 37, 1393-1399.	1.6	16
123	Subject-Specific Carpal Ligament Elongation in Extreme Positions, Grip, and the Dart Thrower's Motion. Journal of Biomechanical Engineering, 2015, 137, 111006.	1.3	16
124	Osteophyte growth in early thumb carpometacarpal osteoarthritis. Osteoarthritis and Cartilage, 2019, 27, 1315-1323.	1.3	16
125	Proximalâ€distal shift of the center of rotation in a total wrist arthroplasty is more than twice of the healthy wrist. Journal of Orthopaedic Research, 2020, 38, 1575-1586.	2.3	16
126	Carpal Kinematics. Hand Clinics, 2006, 22, 413-420.	1.0	15

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127	Reduction in Cylindrical Grasp Strength Is Associated With Early Thumb Carpometacarpal Osteoarthritis. Clinical Orthopaedics and Related Research, 2017, 475, 522-528.	1.5	15
128	Trapeziometacarpal joint contact varies between men and women during three isometric functional tasks. Medical Engineering and Physics, 2017, 50, 43-49.	1.7	15
129	Relative Contributions of the Midcarpal and Radiocarpal Joints to Dart-Throwerâ€™s Motion at the Wrist. Journal of Hand Surgery, 2018, 43, 234-240.	1.6	15
130	Fitting Manifold Surfaces to Three-Dimensional Point Clouds. Journal of Biomechanical Engineering, 2002, 124, 136-140.	1.3	15
131	Evaluation of Hand Motion Capture Protocol Using Static Computed Tomography Images: Application to an Instrumented Glove. Journal of Biomechanical Engineering, 2014, 136, 124501.	1.3	14
132	Polar Histograms of Curvature for Quantifying Skeletal Joint Shape and Congruence. Journal of Biomechanical Engineering, 2014, 136, 094503.	1.3	14
133	An Improved Method for Cable Grip Fixation of the Greater Trochanter After Trochanteric Slide Osteotomy. Journal of Arthroplasty, 2010, 25, 319-324.	3.1	13
134	Changes in Local Bone Density in Early Thumb Carpometacarpal Joint Osteoarthritis. Journal of Hand Surgery, 2018, 43, 33-38.	1.6	13
135	Head Impact Exposure in Practices Correlates With Exposure in Games for Youth Football Players. Journal of Applied Biomechanics, 2018, 34, 354-360.	0.8	13
136	An Experimental and Numerical Investigation of Head Dynamics Due to Stick Impacts in Girlsâ€™ Lacrosse. Annals of Biomedical Engineering, 2014, 42, 2501-2511.	2.5	12
137	Do American Youth Football Players Intentionally Use Their Heads for High-Magnitude Impacts?. American Journal of Sports Medicine, 2019, 47, 3498-3504.	4.2	12
138	Functional Stability of the Canine Cervical Spine After Injury. Spine, 1990, 15, 1040-1046.	2.0	11
139	Modeling the Lacrosse Stick as a Rigid Body Underestimates Shot Ball Speeds. Journal of Applied Biomechanics, 2009, 25, 184-191.	0.8	11
140	Surrogate Headform Accelerations Associated with Stick Checks in Girlsâ€™ Lacrosse. Journal of Applied Biomechanics, 2015, 31, 122-127.	0.8	11
141	The AUSCAN and PRWHE Demonstrate Comparable Internal Consistency and Validity in Patients With Early Thumb Carpometacarpal Osteoarthritis. Hand, 2018, 13, 652-658.	1.2	11
142	Physical and Mechanical Properties of Various Field Lacrosse Balls. Journal of Applied Biomechanics, 2005, 21, 383-393.	0.8	10
143	Mechanical Properties of Chest Protectors and the Likelihood of Ventricular Fibrillation Due to Commotio Cordis. Journal of Applied Biomechanics, 2007, 23, 282-288.	0.8	10
144	The 6-O'clock Anchor Increases Labral Repair Strength in a Biomechanical Shoulder Instability Model. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2019, 35, 2795-2800.	2.7	10

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145	Osteophyte volume calculation using dissimilarityâ€excluding Procrustes registration of archived bone models from healthy volunteers. Journal of Orthopaedic Research, 2020, 38, 1307-1315.	2.3	10
146	Dynamic Biomechanical Examination of the Lumbar Spine With Implanted Total Disc Replacement Using a Pendulum Testing System. Spine, 2012, 37, E1438-E1443.	2.0	9
147	Examination of cervical spine kinematics in complex, multiplanar motions after anterior cervical discectomy and fusion and total disc replacement. International Journal of Spine Surgery, 2012, 6, 190-194.	1.5	9
148	Locking Buttons Increase Fatigue Life of Locking Plates in a Segmental Bone Defect Model. Clinical Orthopaedics and Related Research, 2013, 471, 1039-1044.	1.5	9
149	Four-Year Outcomes of Midcarpal Hemiarthroplasty for Wrist Arthritis. Journal of Hand Surgery, 2017, 42, 894-903.	1.6	9
150	A Biomechanical Evaluation of a 2-Suture Anchor Repair Technique for Thumb Metacarpophalangeal Joint Ulnar Collateral Ligament Injuries. Hand, 2018, 13, 581-585.	1.2	9
151	Kinematic Accuracy in Tracking Total Wrist Arthroplasty With Biplane Videoradiography Using a Computed Tomography-Generated Model. Journal of Biomechanical Engineering, 2019, 141, .	1.3	9
152	The Reliability of a New Device Designed to Assess Gastrocnemius Contracture. Foot and Ankle International, 2002, 23, 655-660.	2.3	8
153	Î¼CT-generated carpal cartilage surfaces: Validation of a technique. Journal of Biomechanics, 2011, 44, 2516-2519.	2.1	8
154	Pendulum mass affects the measurement of articular friction coefficient. Journal of Biomechanics, 2013, 46, 615-618.	2.1	8
155	Thumb carpometacarpal joint congruence during functional tasks and thumb range-of-motion activities. , 2014, 2014, 4354-7.		8
156	The Effectiveness of Regulations and Behavioral Interventions on Head Impacts and Concussions in Youth, High-School, and Collegiate Football: A Systematized Review. Annals of Biomedical Engineering, 2020, 48, 2508-2530.	2.5	8
157	Differences in the Rotation Axes of the Scapholunate Joint During Flexion-Extension and Radial-Ulnar Deviation Motions. Journal of Hand Surgery, 2019, 44, 772-778.	1.6	7
158	Accuracy of an electrogoniometer relative to optical motion tracking for quantifying wrist range of motion. Journal of Medical Engineering and Technology, 2020, 44, 49-54.	1.4	7
159	Neuropsychological Change After a Single Season of Head Impact Exposure in Youth Football. Journal of the International Neuropsychological Society, 2021, 27, 113-123.	1.8	7
160	Design and Kinematic Evaluation of a Novel Joint-Specific Play Controller: Application for Wrist and Forearm Therapy. Physical Therapy, 2015, 95, 1061-1066.	2.4	6
161	Head Impact Exposure in Youth and Collegiate American Football. Annals of Biomedical Engineering, 2022, 50, 1488-1497.	2.5	6
162	Dynamic Biomechanical Examination of the Lumbar Spine with Implanted Total Spinal Segment Replacement (TSSR) Utilizing a Pendulum Testing System. PLoS ONE, 2013, 8, e57412.	2.5	5

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163	Batting Cage Performance of Wood and Nonwood Youth Baseball Bats. Journal of Applied Biomechanics, 2014, 30, 237-243.	0.8	5
164	Cervical total disc replacement exhibits similar stiffness to intact cervical functional spinal units tested on a dynamic pendulum testing system. Spine Journal, 2015, 15, 162-167.	1.3	5
165	Comparison of transhumeral socket designs utilizing patient assessment and in vivo skeletal and socket motion tracking: a case study. Disability and Rehabilitation: Assistive Technology, 2016, 11, 423-432.	2.2	5
166	Biplanar Videoradiography to Study the Wrist and Distal Radioulnar Joints. Journal of Visualized Experiments, 2021, , .	0.3	5
167	The role of scapholunate interosseous, dorsal intercarpal, and radiolunate ligaments in wrist biomechanics. Journal of Biomechanics, 2021, 125, 110567.	2.1	5
168	Limitations of â€œValidation Study of Helmet-Based Impact Measurement System in Hockeyâ€• Medicine and Science in Sports and Exercise, 2014, 46, 640-641.	0.4	4
169	In vivo articular contact pattern of a total wrist arthroplasty design. Journal of Biomechanics, 2021, 121, 110420.	2.1	4
170	How Do Sex, Age, and Osteoarthritis Affect Cartilage Thickness at the Thumb Carpometacarpal Joint? Insights from Subject-Specific Cartilage Modeling. Lecture Notes in Computational Vision and Biomechanics, 2014, , 103-111.	0.5	4
171	Three-dimensional joit kinematics using bone surface registration: A computer assisted approach with an application to the wrist joint in vivo. Lecture Notes in Computer Science, 1998, , 696-699.	1.3	3
172	Development of a kinematic 3D carpal model to analyze in vivo soft-tissue interaction across multiple static postures. , 2009, 2009, 7176-9.		3
173	Extracting Time-Accurate Acceleration Vectors From Nontrivial Accelerometer Arrangements. Journal of Biomechanical Engineering, 2015, 137, .	1.3	3
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175	Fixation Strength in Full and Limited Fixation of Osteoporotic Distal Radius Fractures. Hand, 2018, 13, 461-465.	1.2	3
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