

# Li-Chieh Kuo, Otr

## List of Publications by Year in descending order

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129  
papers

1,594  
citations

361413

20  
h-index

454955

30  
g-index

129  
all docs

129  
docs citations

129  
times ranked

1541  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Tenodesis-Induced-Grip exoskeleton robot (TIGER) for assisting upper extremity functions in stroke patients: a randomized control study. <i>Disability and Rehabilitation</i> , 2022, 44, 7078-7086.	1.8	5
2	Safe Zones for Percutaneous Carpal Tunnel Release. <i>Hand Clinics</i> , 2022, 38, 83-90.	1.0	7
3	Force Control Strategy of Five-Digit Precision Grasping With Aligned and Unaligned Configurations. <i>Human Factors</i> , 2022, , 001872082110409.	3.5	1
4	A Novel and Clinically Feasible Instrument for Quantifying Upper Limb Muscle Tone and Motor Function via Indirect Measure Methods. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , 2022, 10, 1-8.	3.7	1
5	Externally applied force helps reduce bowstring effect of flexors in patients with carpal tunnel release surgery. <i>Musculoskeletal Science and Practice</i> , 2022, 58, 102517.	1.3	0
6	Beyond Sarcopenia: older adults with type II diabetes mellitus tend to experience an elevated risk of poor dynamic balance—a case-control study. <i>BMC Geriatrics</i> , 2022, 22, 138.	2.7	6
7	Effects of a Virtual Reality-Based Mirror Therapy Program on Improving Sensorimotor Function of Hands in Chronic Stroke Patients: A Randomized Controlled Trial. <i>Neurorehabilitation and Neural Repair</i> , 2022, 36, 335-345.	2.9	15
8	Estimating the Neovascularity of Human Finger Tendon Through High-Frequency Ultrasound Micro-Doppler Imaging. <i>IEEE Transactions on Biomedical Engineering</i> , 2022, 69, 2667-2678.	4.2	2
9	Pen-grip kinetics in children with and without handwriting difficulties. <i>PLoS ONE</i> , 2022, 17, e0270466.	2.5	0
10	Amelioration of experimental tendinopathy by lentiviral CD44 gene therapy targeting senescence-associated secretory phenotypes. <i>Molecular Therapy - Methods and Clinical Development</i> , 2022, 26, 157-168.	4.1	5
11	Effect of a Novel Perturbation-Based Pinch Task Training on Sensorimotor Performance of Upper Extremity for Patients With Chronic Stroke: A Pilot Randomized Controlled Trial. <i>Archives of Physical Medicine and Rehabilitation</i> , 2021, 102, 811-818.	0.9	2
12	Development and Testing of a Virtual Reality Mirror Therapy System for the Sensorimotor Performance of Upper Extremity: A Pilot Randomized Controlled Trial. <i>IEEE Access</i> , 2021, 9, 14725-14734.	4.2	19
13	Dynamic Traction Splint as an Alternative Surgical Treatment for Comminuted Intraarticular Fracture of Metacarpophalangeal Joint. <i>Annals of Plastic Surgery</i> , 2021, 86, S35-S40.	0.9	0
14	The Comparisons of Physical Functional Performances between Older Adults with and without Regular Physical Activity in Two Different Living Settings. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 3561.	2.6	5
15	Single intra-articular injection of a novel stabilized cross-linked hyaluronate in the treatment of knee osteoarthritis: compared with a united states-approved similar. <i>Osteoarthritis and Cartilage</i> , 2021, 29, S236-S237.	1.3	0
16	Evidence-based Customized Ankle-Foot Orthosis with Energy Storage. <i>Journal of Medical and Biological Engineering</i> , 2021, 41, 126-136.	1.8	5
17	Dynamic Anthropometrics of Preschool Children in Taiwan for Playground Equipment Designs. <i>Journal of Medical and Biological Engineering</i> , 2021, 41, 273-284.	1.8	1
18	Evaluation of Hand Tendon Elastic Properties During Rehabilitation Through High-Frequency Ultrasound Shear Elastography. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021, 68, 2716-2726.	3.0	9

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19	Effects of vibrotactile-enhanced music-based intervention on sensorimotor control capacity in the hand of an aging brain: a pilot feasibility randomized crossover trial. <i>BMC Geriatrics</i> , 2021, 21, 660.	2.7	0
20	Diagnosis of Carpal Tunnel Syndrome in Patients Without Diabetes With Hemodialysis Using Ultrasonography: Is It a Useful Adjunctive Tool?. <i>Archives of Physical Medicine and Rehabilitation</i> , 2021, , .	0.9	1
21	Relationship between motor function and psychotic symptomatology in youngâ€œadult patients with schizophrenia. <i>European Archives of Psychiatry and Clinical Neuroscience</i> , 2020, 270, 373-382.	3.2	10
22	Characterization of Hand Tendons Through High-Frequency Ultrasound Elastography. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2020, 67, 37-48.	3.0	17
23	Effect of Novel Remodeled Bicycle Pedal Training on Balance Performance in Athletes With Functional Ankle Instability. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 600187.	4.1	3
24	Evaluation of Hand Tendon Movement by Using High-Frequency Ultrasound Vector Doppler Imaging. <i>IEEE Transactions on Biomedical Engineering</i> , 2020, 67, 2945-2952.	4.2	13
25	Comparison of knee biomechanical characteristics during exercise between pinnacle and step trainers. <i>Gait and Posture</i> , 2020, 77, 201-206.	1.4	1
26	Characterization of the extensor digitorum communis tendon using highâ€œfrequency ultrasound shear wave elastography. <i>Medical Physics</i> , 2020, 47, 1609-1618.	3.0	11
27	Digit Force Controls and Corresponding Brain Activities in Finger Pressing Performance: A Comparison Between Older Adults and Young Individuals. <i>Journal of Aging and Physical Activity</i> , 2020, 28, 94-103.	1.0	0
28	Roboticâ€œassisted therapy with bilateral practice improves task and motor performance in the upper extremities of chronic stroke patients: A randomised controlled trial. <i>Australian Occupational Therapy Journal</i> , 2019, 66, 637-647.	1.1	14
29	Classifying hand sensorimotor functions of the chronic kidney disease patients using novel manual tactile test and pinch-holding-up activity. <i>PLoS ONE</i> , 2019, 14, e0219762.	2.5	4
30	Effects of a task-based biofeedback training program on improving sensorimotor function in neuropathic hands in diabetic patients: a randomized controlled trial. <i>European Journal of Physical and Rehabilitation Medicine</i> , 2019, 55, 618-626.	2.2	4
31	Effects of body weight support and pedal stance width on joint loading during pinnacle trainer exercise. <i>Gait and Posture</i> , 2019, 74, 45-52.	1.4	1
32	The effect of task complexity on handwriting kinetics. <i>Canadian Journal of Occupational Therapy</i> , 2019, 86, 158-168.	1.3	4
33	Inhibition of CD44 induces apoptosis, inflammation, and matrix metalloproteinase expression in tendinopathy. <i>Journal of Biological Chemistry</i> , 2019, 294, 20177-20184.	3.4	25
34	Anthropometric Database of the Preschool Children from 2 to 6ÂˆYears in Taiwan. <i>Journal of Medical and Biological Engineering</i> , 2019, 39, 552-568.	1.8	8
35	Effects of the Surface Texture and Weight of a Pinch Apparatus on the Reliability and Validity of a Hand Sensorimotor Control Assessment. <i>Archives of Physical Medicine and Rehabilitation</i> , 2019, 100, 620-626.	0.9	3
36	Magnetic Resonance Elastography in the Assessment of Acute Effects of Kinesio Taping on Lumbar Paraspinal Muscles. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 49, 1039-1045.	3.4	15

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37	A Touch-Observation and Task-Based Mirror Therapy Protocol to Improve Sensorimotor Control and Functional Capability of Hands for Patients With Peripheral Nerve Injury. <i>American Journal of Occupational Therapy</i> , 2019, 73, 7302205020p1-7302205020p10.	0.3	7
38	Comprehensive simulation on morphological and mechanical properties of trigger finger – A cadaveric model. <i>Journal of Biomechanics</i> , 2018, 74, 187-191.	2.1	5
39	Shall We Profile the Measuring Postures and Amounts of Stress? A Novel Stress-View Evaluation System for Quantifying Trapeziometacarpal Joint Laxity. <i>Journal of Medical and Biological Engineering</i> , 2018, 38, 724-734.	1.8	0
40	Do we underestimate influences of diabetic mononeuropathy or polyneuropathy on hand functional performance and life quality?. <i>Journal of Diabetes Investigation</i> , 2018, 9, 179-185.	2.4	12
41	Impacts of Sensation, Perception, and Motor Abilities of the Ipsilesional Upper Limb on Hand Functions in Unilateral Stroke: Quantifications From Biomechanical and Functional Perspectives. <i>PM and R</i> , 2018, 10, 146-153.	1.6	16
42	Effects of object size and distance on reaching kinematics in patients with schizophrenia. <i>Hong Kong Journal of Occupational Therapy</i> , 2018, 31, 22-29.	0.9	7
43	Mechanical problem in 3D printed ankle-foot orthoses with function of energy storage. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	4
44	How kinematic disturbance in the deformed rheumatoid thumb impacts on hand function: a biomechanical and functional perspective. <i>Disability and Rehabilitation</i> , 2017, 39, 338-345.	1.8	9
45	High-molecular-weight hyaluronic acid attenuated matrix metalloproteinase-1 and -3 expression via CD44 in tendinopathy. <i>Scientific Reports</i> , 2017, 7, 40840.	3.3	25
46	Comprehension of handwriting development: Pen-grip kinetics in handwriting tasks and its relation to fine motor skills among school-age children. <i>Australian Occupational Therapy Journal</i> , 2017, 64, 369-380.	1.1	23
47	Determining the functional sensibility of the hand in patients with peripheral nerve repair: Feasibility of using a novel manual tactile test for monitoring the progression of nerve regeneration. <i>Journal of Hand Therapy</i> , 2017, 30, 65-73.	1.5	5
48	Dynamic weight bearing analysis is effective for evaluation of tendinopathy using a customized corridor with multi-directional force sensors in a rat model. <i>Scientific Reports</i> , 2017, 7, 8708.	3.3	8
49	Characteristics of Sonography in a Rat Achilles Tendinopathy Model: Possible Non-invasive Predictors of Biomechanics. <i>Scientific Reports</i> , 2017, 7, 5100.	3.3	17
50	Tendon-motion tracking in an ultrasound image sequence using optical-flow-based block matching. <i>BioMedical Engineering OnLine</i> , 2017, 16, 47.	2.7	7
51	A medical imaging analysis system for trigger finger using an adaptive texture-based active shape model (ATASM) in ultrasound images. <i>PLoS ONE</i> , 2017, 12, e0187042.	2.5	5
52	Comparison of breast motion at different levels of support during physical activity. <i>Journal of Human Sport and Exercise</i> , 2017, 12, .	0.4	7
53	Medical claims-based case-control study of temporal relationship between clinical visits for hand syndromes and subsequent diabetes diagnosis: implications for identifying patients with undiagnosed type 2 diabetes mellitus. <i>BMJ Open</i> , 2016, 6, e012071.	1.9	8
54	The effects of forearm fatigue on baseball fastball pitching, with implications about elbow injury. <i>Journal of Sports Sciences</i> , 2016, 34, 1182-1189.	2.0	20

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55	A Novel Adhesion Index for Verifying the Extent of Adhesion for the Extensor Digitorum Communis in Patients with Metacarpal Fractures. <i>Scientific Reports</i> , 2016, 6, 31102.	3.3	5
56	Physiotherapists working in clinics have increased risk for new-onset spine disorders. <i>Medicine (United States)</i> , 2016, 95, e4405.	1.0	14
57	Identification of the Position and Thickness of the First Annular Pulley in Sonographic Images. <i>Ultrasound in Medicine and Biology</i> , 2016, 42, 1075-1083.	1.5	8
58	Manual Tactile Test Predicts Sensorimotor Control Capability of Hands for Patients With Peripheral Nerve Injury. <i>Archives of Physical Medicine and Rehabilitation</i> , 2016, 97, 983-990.	0.9	5
59	The repeatability of digital force waveform during natural grasping with five digits. <i>Measurement: Journal of the International Measurement Confederation</i> , 2016, 85, 124-131.	5.0	3
60	The Potential Risk Factors Relevant to Lateral Epicondylitis by Wrist Coupling Posture. <i>PLoS ONE</i> , 2016, 11, e0155379.	2.5	3
61	Intratendinous Injection of Hyaluronate Induces Acute Inflammation: A Possible Detrimental Effect. <i>PLoS ONE</i> , 2016, 11, e0155424.	2.5	9
62	Assessing Finger Joint Biomechanics by Applying Equal Force to Flexor Tendons In Vitro Using a Novel Simultaneous Approach. <i>PLoS ONE</i> , 2016, 11, e0160301.	2.5	16
63	Application of a novel Kalman filter based block matching method to ultrasound images for hand tendon displacement estimation. <i>Medical Physics</i> , 2015, 43, 148-158.	3.0	8
64	Inflammation Is Present in De Quervain Disease—Correlation Study Between Biochemical and Histopathological Evaluation. <i>Annals of Plastic Surgery</i> , 2015, 74, S146-S151.	0.9	20
65	Impacts of elevated glycaemic haemoglobin and disease duration on the sensorimotor control of hands in diabetes patients. <i>Diabetes/Metabolism Research and Reviews</i> , 2015, 31, 385-394.	4.0	18
66	Risk of Hand Syndromes in Patients With Diabetes Mellitus. <i>Medicine (United States)</i> , 2015, 94, e1575.	1.0	31
67	Assessment from Functional Perspectives: Using Sensorimotor Control in the Hand as an Outcome Indicator in the Surgical Treatment of Carpal Tunnel Syndrome. <i>PLoS ONE</i> , 2015, 10, e0128420.	2.5	14
68	Ultrasonographically Guided Percutaneous Carpal Tunnel Release: Early Clinical Experiences and Outcomes. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2015, 31, 2400-2410.	2.7	30
69	The associations among hand dexterity, functional performance, and quality of life in diabetic patients with neuropathic hand from objective- and patient-perceived measurements. <i>Quality of Life Research</i> , 2015, 24, 213-221.	3.1	14
70	Effects of Different Extents of Pulley Release on Tendon Excursion Efficiency and Tendon Moment Arms. <i>Journal of Orthopaedic Research</i> , 2015, 33, 224-228.	2.3	7
71	Is the Control of Applied Digital Forces During Natural Five-digit Grasping Affected by Carpal Tunnel Syndrome?. <i>Clinical Orthopaedics and Related Research</i> , 2015, 473, 2371-2382.	1.5	10
72	Effects of hand span size and right-left hand side on the piano playing performances: Exploration of the potential risk factors with regard to piano-related musculoskeletal disorders. <i>International Journal of Industrial Ergonomics</i> , 2015, 50, 97-104.	2.6	11

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73	Effects of Different Dosage of Dexamethasone on Behavioral, Electrophysiological, and Histomorphological Recovery in a Chronic Sciatic Nerve Compression Model. <i>Pain Medicine</i> , 2015, 16, 765-776.	1.9	2
74	The reproducibility comparison of two intervertebral translation measurements in cervical flexion-extension. <i>Spine Journal</i> , 2015, 15, 1083-1091.	1.3	5
75	Finger Movement Function After Ultrasound-Guided Percutaneous Pulley Release for Trigger Finger: Effects of Postoperative Rehabilitation. <i>Archives of Physical Medicine and Rehabilitation</i> , 2015, 96, 91-97.	0.9	7
76	OS3-9 A Novel Pinnacle Trainer for Rehabilitation(OS3: Rehabilitation Devices II). The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics, 2015, 2015.8, 86.	0.0	0
77	How the Impact of Median Neuropathy on Sensorimotor Control Capability of Hands for Diabetes: An Achievable Assessment from Functional Perspectives. <i>PLoS ONE</i> , 2014, 9, e94452.	2.5	21
78	In Vivo Analysis of Trapeziometacarpal Joint Kinematics during Pinch Tasks. <i>BioMed Research International</i> , 2014, 2014, 1-8.	1.9	4
79	The Effect of Jar Holding Posture on Finger Force and Torque during a Jar-Opening Task for Young Females. <i>Packaging Technology and Science</i> , 2014, 27, 265-276.	2.8	5
80	Model-based tendon segmentation from ultrasound images. , 2014, , .		2
81	A Cadaveric and Preliminary Clinical Study of Ultrasonographically Assisted Percutaneous Carpal Tunnel Release. <i>Ultrasound in Medicine and Biology</i> , 2014, 40, 1819-1826.	1.5	24
82	Poster #S209 EFFECTS OF OBJECT SIZE AND DISTANCE ON REACH-TO-GRASP MOVEMENT IN PATIENTS WITH SCHIZOPHRENIA AND HEALTHY CONTROLS. <i>Schizophrenia Research</i> , 2014, 153, S165.	2.0	0
83	Balance in children with attention deficit hyperactivity disorder-combined type. <i>Research in Developmental Disabilities</i> , 2014, 35, 1252-1258.	2.2	24
84	Impact of Distal Median Neuropathy on Handwriting Performance for Patients with Carpal Tunnel Syndrome in Office and Administrative Support Occupations. <i>Journal of Occupational Rehabilitation</i> , 2014, 24, 332-343.	2.2	17
85	In vivo analysis of trapeziometacarpal joint arthrokinematics during multi-directional thumb motions. <i>Clinical Biomechanics</i> , 2014, 29, 1009-1015.	1.2	4
86	The shift of segmental contribution ratio in patients with herniated disc during cervical lateral bending. <i>BMC Musculoskeletal Disorders</i> , 2014, 15, 273.	1.9	11
87	Clinical and pathological correlates of severity classifications in trigger fingers based on computer-aided image analysis. <i>BioMedical Engineering OnLine</i> , 2014, 13, 100.	2.7	9
88	Diagnosis From Functional Perspectives: Usefulness of a Manual Tactile Test for Predicting Precision Pinch Performance and Disease Severity in Subjects With Carpal Tunnel Syndrome. <i>Archives of Physical Medicine and Rehabilitation</i> , 2014, 95, 717-725.	0.9	8
89	Anterior Translation and Morphologic Changes of the Ulnar Nerve at the Elbow in Adolescent Baseball Players. <i>Ultrasound in Medicine and Biology</i> , 2014, 40, 45-52.	1.5	8
90	Precision Pinch Performance in Patients With Sensory Deficits of the Median Nerve at the Carpal Tunnel. <i>Motor Control</i> , 2014, 18, 29-43.	0.6	13

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91	Effects of Object Size on Unimanual and Bimanual Movements in Patients With Schizophrenia. <i>American Journal of Occupational Therapy</i> , 2014, 68, 230-238.	0.3	8
92	Title is missing!. <i>Journal of Medical and Biological Engineering</i> , 2014, 34, 123.	1.8	1
93	Comparison of dominant hand range of motion among throwing types in baseball pitchers. <i>Human Movement Science</i> , 2013, 32, 719-729.	1.4	16
94	Developing functional workspace for the movement of trunk circumduction in healthy young subjects: a reliability study. <i>BioMedical Engineering OnLine</i> , 2013, 12, 4.	2.7	2
95	Reply to letter to the editor by S. Ozyurek et. al.. <i>Journal of Orthopaedic Science</i> , 2013, 18, 362.	1.1	0
96	Establishment of a Proper Manual Tactile Test for Hands With Sensory Deficits. <i>Archives of Physical Medicine and Rehabilitation</i> , 2013, 94, 451-458.	0.9	11
97	Is progressive early digit mobilization intervention beneficial for patients with external fixation of distal radius fracture? A pilot randomized controlled trial. <i>Clinical Rehabilitation</i> , 2013, 27, 983-993.	2.2	21
98	Quantifying catch-and-release: The extensor tendon force needed to overcome the catching flexors in trigger fingers. <i>Journal of Orthopaedic Research</i> , 2013, 31, 1130-1135.	2.3	10
99	Artefact-reduced kinematics measurement using a geometric finger model with mixture-prior particle filtering. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2013, 16, 861-872.	1.6	2
100	Setup of a Novel Biofeedback Prototype for Sensorimotor Control of the Hand and Preliminary Application in Patients With Peripheral Nerve Injuries. <i>Physical Therapy</i> , 2013, 93, 168-178.	2.4	6
101	The Value of High-Frequency Ultrasonographic Imaging for Quantifying Trigger Digits: A Correlative Study with Clinical Findings in Patients with Different Severity Grading. <i>Ultrasound in Medicine and Biology</i> , 2013, 39, 967-974.	1.5	9
102	Quantification of handwriting performance: Development of a force acquisition pen for measuring hand-grip and pen tip forces. <i>Measurement: Journal of the International Measurement Confederation</i> , 2013, 46, 506-513.	5.0	16
103	A fast-moving target in the Valpar assembly task improved unimanual and bimanual movements in patients with schizophrenia. <i>Disability and Rehabilitation</i> , 2013, 35, 1608-1613.	1.8	5
104	Feasibility of a Novel Functional Sensibility Test as an Assisted Examination for Determining Precision Pinch Performance in Patients with Carpal Tunnel Syndrome. <i>PLoS ONE</i> , 2013, 8, e72064.	2.5	8
105	The Force Synergy of Human Digits in Static and Dynamic Cylindrical Grasps. <i>PLoS ONE</i> , 2013, 8, e60509.	2.5	16
106	One Digit Interruption: The Altered Force Patterns during Functionally Cylindrical Grasping Tasks in Patients with Trigger Digits. <i>PLoS ONE</i> , 2013, 8, e83632.	2.5	6
107	Clinical application of computerized evaluation and re-education biofeedback prototype for sensorimotor control of the hand in stroke patients. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2012, 9, 26.	4.6	20
108	Pain in patients with equal radiographic grades of osteoarthritis in both knees: the value of gray scale ultrasound. <i>Osteoarthritis and Cartilage</i> , 2012, 20, 1507-1513.	1.3	60



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109	Three-dimensional measurement of foot arch in preschool children. <i>BioMedical Engineering OnLine</i> , 2012, 11, 76.	2.7	23
110	The three-dimensional analysis of three thumb joints coordination in activities of daily living. <i>Clinical Biomechanics</i> , 2011, 26, 371-376.	1.2	56
111	Clinical and Ultrasonographic Results of Ultrasonographically Guided Percutaneous Radiofrequency Lesioning in the Treatment of Recalcitrant Lateral Epicondylitis. <i>American Journal of Sports Medicine</i> , 2011, 39, 2429-2435.	4.2	32
112	Foot pressure and center of pressure in athletes with ankle instability during lateral shuffling and running gait. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2011, 21, e461-7.	2.9	22
113	Postural control while dressing on two surfaces in the elderly. <i>Age</i> , 2011, 33, 187-196.	3.0	3
114	Correlation of digital sensibility and precision of pinch force modulation in patients with nerve repair. <i>Journal of Orthopaedic Research</i> , 2011, 29, 1210-1215.	2.3	13
115	The Initial Anatomical Severity in Patients With Hand Injuries Predicts Future Health-Related Quality of Life. <i>Journal of Trauma</i> , 2011, 71, 1352-1358.	2.3	7
116	Association Between the Initial Anatomical Severity and Opportunity of Return to Work in Occupational Hand Injured Patients. <i>Journal of Trauma</i> , 2010, 69, E88-E93.	2.3	12
117	Segmental Percentage Contributions of Cervical Spine During Different Motion Ranges of Flexion and Extension. <i>Journal of Spinal Disorders and Techniques</i> , 2010, 23, 278-284.	1.9	33
118	Quantitative evidence of kinematics and functional differences in different graded trigger fingers. <i>Clinical Biomechanics</i> , 2010, 25, 535-540.	1.2	22
119	Kinematical and functional improvements of trigger digits after sonographically assisted percutaneous release of the A1 pulley. <i>Journal of Orthopaedic Research</i> , 2009, 27, 891-896.	2.3	15
120	Functional sensibility assessment. Part I: develop a reliable apparatus to assess momentary pinch force control. <i>Journal of Orthopaedic Research</i> , 2009, 27, 1116-1121.	2.3	21
121	Functional sensibility assessment. part II: Effects of sensory improvement on precise pinch force modulation after transverse carpal tunnel release. <i>Journal of Orthopaedic Research</i> , 2009, 27, 1534-1539.	2.3	24
122	Functional workspace for precision manipulation between thumb and fingers in normal hands. <i>Journal of Electromyography and Kinesiology</i> , 2009, 19, 829-839.	1.7	57
123	The feasibility of a video-based motion analysis system in measuring the segmental movements between upper and lower cervical spine. <i>Gait and Posture</i> , 2007, 26, 161-166.	1.4	27
124	The quantitative measurements of the intervertebral angulation and translation during cervical flexion and extension. <i>European Spine Journal</i> , 2007, 16, 1435-1444.	2.2	53
125	A kinematic method to calculate the workspace of the trapeziometacarpal joint. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2004, 218, 143-149.	1.8	14
126	A quantitative method to measure maximal workspace of the trapeziometacarpal joint—a normal model development. <i>Journal of Orthopaedic Research</i> , 2004, 22, 600-606.	2.3	28



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127	Video-computer quantitative evaluation of thumb function using workspace of the thumb. Journal of Biomechanics, 2003, 36, 937-942.	2.1	27
128	Feasibility of using surface markers for assessing motion of the thumb trapeziometacarpal joint. Clinical Biomechanics, 2003, 18, 558-563.	1.2	31
129	Feasibility of using a video-based motion analysis system for measuring thumb kinematics. Journal of Biomechanics, 2002, 35, 1499-1506.	2.1	65