

Le Li

List of Publications by Year in descending order

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95
papers

1,923
citations

331642

21
h-index

302107

39
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106
all docs

106
docs citations

106
times ranked

2511
citing authors

#	ARTICLE	IF	CITATIONS
1	The Effects of Voluntary, Involuntary, and Forced Exercises on Brain-Derived Neurotrophic Factor and Motor Function Recovery: A Rat Brain Ischemia Model. <i>PLoS ONE</i> , 2011, 6, e16643.	2.5	225
2	Assistive Control System Using Continuous Myoelectric Signal in Robot-Aided Arm Training for Patients After Stroke. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2008, 16, 371-379.	4.9	165
3	Clinical outcomes of radiofrequency ablation and surgical resection for small hepatocellular carcinoma: A meta-analysis. <i>Journal of Gastroenterology and Hepatology (Australia)</i> , 2012, 27, 51-58.	2.8	91
4	The Effect of Poststroke Impairments on Brachialis Muscle Architecture as Measured by Ultrasound. <i>Archives of Physical Medicine and Rehabilitation</i> , 2007, 88, 243-250.	0.9	83
5	Variation of Muscle Coactivation Patterns in Chronic Stroke During Robot-Assisted Elbow Training. <i>Archives of Physical Medicine and Rehabilitation</i> , 2007, 88, 1022-1029.	0.9	83
6	The Effect of Body Weight Support Treadmill Training on Gait Recovery, Proximal Lower Limb Motor Pattern, and Balance in Patients with Subacute Stroke. <i>BioMed Research International</i> , 2015, 2015, 1-10.	1.9	72
7	Virtual reality training improves balance function. <i>Neural Regeneration Research</i> , 2014, 9, 1628.	3.0	63
8	Mechanism of Kinect-based virtual reality training for motor functional recovery of upper limbs after subacute stroke. <i>Neural Regeneration Research</i> , 2013, 8, 2904-13.	3.0	49
9	Mediator-free electron-transfer on patternable hierarchical meso/macro porous bienzyme interface for highly-sensitive sweat glucose and surface electromyography monitoring. <i>Sensors and Actuators B: Chemical</i> , 2020, 312, 127962.	7.8	47
10	Quantifying paraspinal muscle tone and stiffness in young adults with chronic low back pain: a reliability study. <i>Scientific Reports</i> , 2018, 8, 14343.	3.3	46
11	Anatomical prior based vertebra modelling for reappearance of human spines. <i>Neurocomputing</i> , 2022, 500, 750-760.	5.9	41
12	Localized Electrical Impedance Myography of the Biceps Brachii Muscle during Different Levels of Isometric Contraction and Fatigue. <i>Sensors</i> , 2016, 16, 581.	3.8	39
13	Cerebral Reorganization in Subacute Stroke Survivors after Virtual Reality-Based Training: A Preliminary Study. <i>Behavioural Neurology</i> , 2017, 2017, 1-8.	2.1	39
14	The Perceived Benefits of an Artificial Intelligence-Embedded Mobile App Implementing Evidence-Based Guidelines for the Self-Management of Chronic Neck and Back Pain: Observational Study. <i>JMIR MHealth and UHealth</i> , 2018, 6, e198.	3.7	39
15	The mechanomyography of persons after stroke during isometric voluntary contractions. <i>Journal of Electromyography and Kinesiology</i> , 2007, 17, 473-483.	1.7	35
16	Combining Movement-Related Cortical Potentials and Event-Related Desynchronization to Study Movement Preparation and Execution. <i>Frontiers in Neurology</i> , 2018, 9, 822.	2.4	35
17	Incorporating ultrasound-measured musculotendon parameters to subject-specific EMG-driven model to simulate voluntary elbow flexion for persons after stroke. <i>Clinical Biomechanics</i> , 2009, 24, 101-109.	1.2	34
18	Relative and Absolute Interrater Reliabilities of a Hand-Held Myotonometer to Quantify Mechanical Muscle Properties in Patients with Acute Stroke in an Inpatient Ward. <i>BioMed Research International</i> , 2017, 2017, 1-12.	1.9	32

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19	EEG patterns from acute to chronic stroke phases in focal cerebral ischemic rats: correlations with functional recovery. <i>Physiological Measurement</i> , 2013, 34, 423-435.	2.1	31
20	Voluntary Control of an Ankle Joint Exoskeleton by Able-Bodied Individuals and Stroke Survivors Using EMG-Based Admittance Control Scheme. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 695-705.	4.2	30
21	Alterations of Muscle Activation Pattern in Stroke Survivors during Obstacle Crossing. <i>Frontiers in Neurology</i> , 2017, 8, 70.	2.4	23
22	Evaluation of Cerebral Blood Flow Changes in Focal Cerebral Ischemia Rats by Using Transcranial Doppler Ultrasonography. <i>Ultrasound in Medicine and Biology</i> , 2010, 36, 595-603.	1.5	21
23	Electrical Impedance Myography for Evaluating Paretic Muscle Changes After Stroke. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2017, 25, 2113-2121.	4.9	21
24	The Crucial Changes of Sit-to-Stand Phases in Subacute Stroke Survivors Identified by Movement Decomposition Analysis. <i>Frontiers in Neurology</i> , 2018, 9, 185.	2.4	21
25	Change of Muscle Architecture following Body Weight Support Treadmill Training for Persons after Subacute Stroke: Evidence from Ultrasonography. <i>BioMed Research International</i> , 2014, 2014, 1-11.	1.9	19
26	Alterations in multidimensional motor unit number index of hand muscles after incomplete cervical spinal cord injury. <i>Frontiers in Human Neuroscience</i> , 2015, 9, 238.	2.0	19
27	Lumbar muscles biomechanical characteristics in young people with chronic spinal pain. <i>BMC Musculoskeletal Disorders</i> , 2019, 20, 559.	1.9	19
28	Improved walking ability with wearable robot-assisted training in patients suffering chronic stroke. <i>Bio-Medical Materials and Engineering</i> , 2015, 26, S329-S340.	0.6	18
29	Scoliotic Imaging With a Novel Double-Sweep 2.5-Dimensional Extended Field-of-View Ultrasound. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2019, 66, 1304-1315.	3.0	18
30	Alterations of Elastic Property of Spastic Muscle With Its Joint Resistance Evaluated From Shear Wave Elastography and Biomechanical Model. <i>Frontiers in Neurology</i> , 2019, 10, 736.	2.4	17
31	Is maximum isometric muscle stress the same among prime elbow flexors?. <i>Clinical Biomechanics</i> , 2007, 22, 874-883.	1.2	16
32	Advanced quantitative estimation methods for spasticity: a literature review. <i>Journal of International Medical Research</i> , 2020, 48, 030006051988842.	1.0	16
33	The Effect of Subcutaneous Fat on Electrical Impedance Myography: Electrode Configuration and Multi-Frequency Analyses. <i>PLoS ONE</i> , 2016, 11, e0156154.	2.5	16
34	Stroke-Related Changes in the Complexity of Muscle Activation during Obstacle Crossing Using Fuzzy Approximate Entropy Analysis. <i>Frontiers in Neurology</i> , 2018, 9, 131.	2.4	15
35	The Effects of Extracorporeal Shock Wave Therapy on Spastic Muscle of the Wrist Joint in Stroke Survivors: Evidence From Neuromechanical Analysis. <i>Frontiers in Neuroscience</i> , 2020, 14, 580762.	2.8	15
36	Muscle activation changes during body weight support treadmill training after focal cortical ischemia: A rat hindlimb model. <i>Journal of Electromyography and Kinesiology</i> , 2011, 21, 318-326.	1.7	14

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37	Comparison of dominant hand to non-dominant hand in conduction of reaching task from 3D kinematic data: Trade-off between successful rate and movement efficiency. <i>Mathematical Biosciences and Engineering</i> , 2019, 16, 1611-1624.	1.9	14
38	Electrical impedance myography changes after incomplete cervical spinal cord injury: An examination of hand muscles. <i>Clinical Neurophysiology</i> , 2017, 128, 2242-2247.	1.5	13
39	The effects of voluntary, involuntary, and forced exercises on motor recovery in a stroke rat model. , 2011, 2011, 8223-6.		11
40	Iterative Adjustment of Stimulation Timing and Intensity During FES-Assisted Treadmill Walking for Patients After Stroke. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020, 28, 1292-1298.	4.9	11
41	Assessing the Relationship Between Motor Anticipation and Cortical Excitability in Subacute Stroke Patients With Movement-Related Potentials. <i>Frontiers in Neurology</i> , 2018, 9, 881.	2.4	10
42	Trunk muscle activity during pressure feedback monitoring among individuals with and without chronic low Back pain. <i>BMC Musculoskeletal Disorders</i> , 2020, 21, 569.	1.9	10
43	The Effect of Virtual Reality Training on Anticipatory Postural Adjustments in Patients with Chronic Nonspecific Low Back Pain: A Preliminary Study. <i>Neural Plasticity</i> , 2021, 2021, 1-13.	2.2	10
44	Effects of Non-Invasive Brain Stimulation on Post-Stroke Spasticity: A Systematic Review and Meta-Analysis of Randomized Controlled Trials. <i>Brain Sciences</i> , 2022, 12, 836.	2.3	10
45	Implanted FNS system in closed-circle may become a way for the restoration of eye blinking and closing function for facial paralysis patient. <i>Medical Hypotheses</i> , 2008, 70, 1068-1069.	1.5	9
46	Kinematic Outcome Measures using Target-Reaching Arm Movement in Stroke. <i>Annals of Biomedical Engineering</i> , 2017, 45, 2794-2803.	2.5	9
47	Alterations in Localized Electrical Impedance Myography of Biceps Brachii Muscles Paralyzed by Spinal Cord Injury. <i>Frontiers in Neurology</i> , 2017, 8, 253.	2.4	9
48	Speed-adaptive control of functional electrical stimulation for dropfoot correction. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2018, 15, 98.	4.6	9
49	Identify the Alteration of Balance Control and Risk of Falling in Stroke Survivors During Obstacle Crossing Based on Kinematic Analysis. <i>Frontiers in Neurology</i> , 2019, 10, 813.	2.4	9
50	Correlation Between Muscle Structures and Electrical Properties of the Tibialis Anterior in Subacute Stroke Survivors: A Pilot Study. <i>Frontiers in Neuroscience</i> , 2019, 13, 1270.	2.8	9
51	EEG Changes in Time and Time-Frequency Domain During Movement Preparation and Execution in Stroke Patients. <i>Frontiers in Neuroscience</i> , 2020, 14, 827.	2.8	9
52	The association between pelvic asymmetry and non-specific chronic low back pain as assessed by the global postural system. <i>BMC Musculoskeletal Disorders</i> , 2020, 21, 596.	1.9	9
53	Upper Limbs Muscle Co-contraction Changes Correlated With the Impairment of the Corticospinal Tract in Stroke Survivors: Preliminary Evidence From Electromyography and Motor-Evoked Potential. <i>Frontiers in Neuroscience</i> , 2022, 16, .	2.8	9
54	FNS therapy for the functional restoration of the paralysed eyelid. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , 2009, 62, e622-e624.	1.0	8

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55	The effects of training intensities on motor recovery and gait symmetry in a rat model of ischemia. <i>Brain Injury</i> , 2013, 27, 408-416.	1.2	8
56	Assessing the immediate impact of botulinum toxin injection on impedance of spastic muscle. <i>Medical Engineering and Physics</i> , 2017, 43, 97-102.	1.7	8
57	The Difference of Neural Networks between Bimanual Antiphase and In-Phase Upper Limb Movements: A Preliminary Functional Magnetic Resonance Imaging Study. <i>Behavioural Neurology</i> , 2017, 2017, 1-9.	2.1	8
58	Assessing redistribution of muscle innervation zones after spinal cord injuries. <i>Journal of Electromyography and Kinesiology</i> , 2021, 59, 102550.	1.7	8
59	Effects of core stability training on older women with low back pain: a randomized controlled trial. <i>European Review of Aging and Physical Activity</i> , 2022, 19, 10.	2.9	8
60	The Therapeutic Effects of Myoelectrically Controlled Robotic System for Persons after Stroke-A Pilot Study. , 2006, 2006, 4945-8.		7
61	Arm-eye coordination test to objectively quantify motor performance and muscles activation in persons after stroke undergoing robot-aided rehabilitation training: a pilot study. <i>Experimental Brain Research</i> , 2013, 229, 373-382.	1.5	7
62	Changes of pelvis control with subacute stroke: A comparison of body-weight- support treadmill training coupled virtual reality system and over-ground training. <i>Technology and Health Care</i> , 2015, 23, S355-S364.	1.2	7
63	Reduced knee hyperextension after wearing a robotic knee orthosis during gait training - a case study. <i>Bio-Medical Materials and Engineering</i> , 2015, 26, S381-S388.	0.6	7
64	Effects of Different Sling Settings on Electromyographic Activities of Selected Trunk Muscles: A Preliminary Research. <i>BioMed Research International</i> , 2020, 2020, 1-10.	1.9	7
65	Cortical Representations of Transversus Abdominis and Multifidus Muscles Were Discrete in Patients with Chronic Low Back Pain: Evidence Elicited by TMS. <i>Neural Plasticity</i> , 2021, 2021, 1-9.	2.2	7
66	Inhomogeneous and anisotropic mechanical properties of the triceps surae muscles and aponeuroses in vivo during submaximal muscle contraction. <i>Journal of Biomechanics</i> , 2021, 121, 110396.	2.1	7
67	A novel glasses-free virtual reality rehabilitation system on improving upper limb motor function among patients with stroke: A feasibility pilot study. <i>Medicine in Novel Technology and Devices</i> , 2021, 11, 100069.	1.6	7
68	Effect of different terrains on onset timing, duration and amplitude of tibialis anterior activation. <i>Biomedical Signal Processing and Control</i> , 2015, 19, 115-121.	5.7	6
69	Prospective clinical study of rehabilitation interventions with multisensory interactive training in patients with cerebral infarction: study protocol for a randomised controlled trial. <i>Trials</i> , 2017, 18, 173.	1.6	6
70	Effects of consecutive slips in nerve signals recorded by implanted cuff electrode. <i>Medical Engineering and Physics</i> , 2008, 30, 460-465.	1.7	5
71	Kinematic Analysis of Trajectory Dimension-Dependent Sensorimotor Control in Arm Tracking. <i>IEEE Access</i> , 2019, 7, 8890-8900.	4.2	5
72	Detection of functional connectivity in the brain during visually-guided grip force tracking tasks: A functional near-infrared spectroscopy study. <i>Journal of Neuroscience Research</i> , 2021, 99, 1108-1119.	2.9	5

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73	Muscle Electrical Impedance Properties and Activation Alteration After Functional Electrical Stimulation-Assisted Cycling Training for Chronic Stroke Survivors: A Longitudinal Pilot Study. <i>Frontiers in Neurology</i> , 2021, 12, 746263.	2.4	5
74	Immediate Effects of Functional Electrical Stimulation-Assisted Cycling on the Paretic Muscles of Patients With Hemiparesis After Stroke: Evidence From Electrical Impedance Myography. <i>Frontiers in Aging Neuroscience</i> , 2022, 14, .	3.4	5
75	Evaluation of transcranial Doppler flow velocity changes in intracerebral hemorrhage rats using ultrasonography. <i>Journal of Neuroscience Methods</i> , 2012, 210, 272-280.	2.5	4
76	Combined Ultrasound Imaging and Biomechanical Modeling to Estimate Triceps Brachii Musculotendon Changes in Stroke Survivors. <i>BioMed Research International</i> , 2016, 2016, 1-11.	1.9	4
77	The Step Response in Isometric Grip Force Tracking: A Model to Characterize Aging- and Stroke-Induced Changes. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2019, 27, 673-681.	4.9	4
78	Musculotendon parameters estimation by ultrasound measurement and geometric modeling: application on brachialis muscle. , 2005, 2005, 4974-7.		3
79	Efficacy and Safety of Chinese Herbs for the Prevention of the Risk of Renal Damage in Henoch-Schonlein Purpura in Children: Meta-Analysis of Randomized Controlled Trials and GRADE Evaluation. <i>Evidence-based Complementary and Alternative Medicine</i> , 2019, 2019, 1-16.	1.2	3
80	Electrical Properties of Lumbar Paraspinal Muscles in Young Adults With and Without Chronic Low Back Pain Based on Electrical Impedance Myography: A Cross-Sectional Study. <i>Frontiers in Neurology</i> , 2021, 12, 789589.	2.4	3
81	The Impact of Cognitive Function on Virtual Reality Intervention for Upper Extremity Rehabilitation of Patients With Subacute Stroke: Prospective Randomized Controlled Trial With 6-Month Follow-up. <i>JMIR Serious Games</i> , 2022, 10, e33755.	3.1	3
82	Quantitative evaluation. , 2020, , 193-207.		2
83	Impact of nonsurgical spinal decompression on paraspinal muscle morphology and mechanical properties in young adults with low back pain. <i>Journal of International Medical Research</i> , 2020, 48, 030006052091923.	1.0	2
84	Ultrasound Imaging of Muscle-tendon Architecture in Neurological Disease: Theoretical Basis and Clinical Applications. <i>Current Medical Imaging</i> , 2015, 10, 246-251.	0.8	2
85	Coactivations of Elbow and Shoulder Muscles in Hemiplegic Persons with Chronic Stroke during Robot-Assisted Training. , 2006, 2006, 4933-5.		1
86	Relationship between Passive Stretch Resistance in spastic wrist Flexors and Clinical Scales of Stroke Survivors: A Cross-sectional Study. , 2018, , .		1
87	Quantifying the Changes of Mechanical and Electrical Properties of Paralyzed Muscle in Survivors With Cervical Spinal Cord Injury. <i>Frontiers in Neurology</i> , 2021, 12, 720901.	2.4	1
88	Architectural Changes of Thigh Muscles in Patients with Subacute Stroke after Body Weight Support Treadmill Training. <i>Current Medical Imaging</i> , 2015, 10, 252-258.	0.8	1
89	A Wearable Exoskeletal Rehabilitation Robot for Interactive Therapy. , 2020, , 19-39.		1
90	Interrater and Intrarater Reliability of Electrical Impedance Myography: A Comparison between Large and Small Handheld Electrode Arrays. <i>Journal of Healthcare Engineering</i> , 2021, 2021, 1-8.	1.9	1

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91	Sling Exercise Can Drive Cortical Representation of the Transversus Abdominis and Multifidus Muscles in Patients With Chronic Low Back Pain. <i>Frontiers in Neurology</i> , 0, 13, .	2.4	1
92	Muscle activation improvement during treadmill training at ischemia rat. , 2010, 2010, 4926-9.		0
93	6.3: Glasses-free Virtual Reality for Rehabilitation of Stroke Survivors. <i>Digest of Technical Papers SID International Symposium</i> , 2018, 49, 57-59.	0.3	0
94	Evaluation on the methods to identify muscle fatigue changes after focal cortical ischemia in rats. , 2009, , .		0
95	Using in Vivo Subject-Specific Musculotendon Parameters to Investigate Voluntary Movement Changes after Stroke. <i>Advances in Medical Technologies and Clinical Practice Book Series</i> , 0, , 161-180.	0.3	0