Le Li

List of Publications by Year
in descending order

95 papers	1,923 citations	331670 21 h-index	302126 39 g-index
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. PLoS ONE, 2011, 6, e16643.	2.5	225
2	Assistive Control System Using Continuous Myoelectric Signal in Robot-Aided Arm Training for Patients After Stroke. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2008, 16, 371-379.	4.9	165
3	Clinical outcomes of radiofrequency ablation and surgical resection for small hepatocellular carcinoma: A meta‐analysis. Journal of Gastroenterology and Hepatology (Australia), 2012, 27, 51-58.	2.8	91
4	The Effect of Poststroke Impairments on Brachialis Muscle Architecture as Measured by Ultrasound. Archives of Physical Medicine and Rehabilitation, 2007, 88, 243-250.	0.9	83
5	Variation of Muscle Coactivation Patterns in Chronic Stroke During Robot-Assisted Elbow Training. Archives of Physical Medicine and Rehabilitation, 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. BioMed Research International, 2015, 2015, 1-10.	1.9	72
7	Virtual reality training improves balance function. Neural Regeneration Research, 2014, 9, 1628.	3.0	63
8	Mechanism of Kinect-based virtual reality training for motor functional recovery of upper limbs after subacute stroke. Neural Regeneration Research, 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. Sensors and Actuators B: Chemical, 2020, 312, 127962.	7.8	47
10	Quantifying paraspinal muscle tone and stiffness in young adults with chronic low back pain: a reliability study. Scientific Reports, 2018, 8, 14343.	3.3	46
11	Anatomical prior based vertebra modelling for reappearance of human spines. Neurocomputing, 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. Sensors, 2016, 16, 581.	3.8	39
13	Cerebral Reorganization in Subacute Stroke Survivors after Virtual Reality-Based Training: A Preliminary Study. Behavioural Neurology, 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. JMIR MHealth and UHealth, 2018, 6, e198.	3.7	39
15	The mechanomyography of persons after stroke during isometric voluntary contractions. Journal of Electromyography and Kinesiology, 2007, 17, 473-483.	1.7	35
16	Combining Movement-Related Cortical Potentials and Event-Related Desynchronization to Study Movement Preparation and Execution. Frontiers in Neurology, 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. Clinical Biomechanics, 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. BioMed Research International, 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. Physiological Measurement, 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. IEEE Transactions on Biomedical Engineering, 2021, 68, 695-705.	4.2	30
21	Alterations of Muscle Activation Pattern in Stroke Survivors during Obstacle Crossing. Frontiers in Neurology, 2017, 8, 70.	2.4	23
22	Evaluation of Cerebral Blood Flow Changes in Focal Cerebral Ischemia Rats by Using Transcranial Doppler Ultrasonography. Ultrasound in Medicine and Biology, 2010, 36, 595-603.	1.5	21
23	Electrical Impedance Myography for Evaluating Paretic Muscle Changes After Stroke. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 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. Frontiers in Neurology, 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. BioMed Research International, 2014, 2014, 1-11.	1.9	19
26	Alterations in multidimensional motor unit number index of hand muscles after incomplete cervical spinal cord injury. Frontiers in Human Neuroscience, 2015, 9, 238.	2.0	19
27	Lumbar muscles biomechanical characteristics in young people with chronic spinal pain. BMC Musculoskeletal Disorders, 2019, 20, 559.	1.9	19
28	Improved walking ability with wearable robot-assisted training in patients suffering chronic stroke. Bio-Medical Materials and Engineering, 2015, 26, S329-S340.	0.6	18
29	Scoliotic Imaging With a Novel Double-Sweep 2.5-Dimensional Extended Field-of-View Ultrasound. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 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. Frontiers in Neurology, 2019, 10, 736.	2.4	17
31	Is maximum isometric muscle stress the same among prime elbow flexors?. Clinical Biomechanics, 2007, 22, 874-883.	1.2	16
32	Advanced quantitative estimation methods for spasticity: a literature review. Journal of International Medical Research, 2020, 48, 030006051988842.	1.0	16
33	The Effect of Subcutaneous Fat on Electrical Impedance Myography: Electrode Configuration and Multi-Frequency Analyses. PLoS ONE, 2016, 11, e0156154.	2.5	16
34	Stroke-Related Changes in the Complexity of Muscle Activation during Obstacle Crossing Using Fuzzy Approximate Entropy Analysis. Frontiers in Neurology, 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. Frontiers in Neuroscience, 2020, 14, 580762.	2.8	15
36	Muscle activation changes during body weight support treadmill training after focal cortical ischemia: A rat hindlimb model. Journal of Electromyography and Kinesiology, 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. Mathematical Biosciences and Engineering, 2019, 16, 1611-1624.	1.9	14
38	Electrical impedance myography changes after incomplete cervical spinal cord injury: An examination of hand muscles. Clinical Neurophysiology, 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. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 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. Frontiers in Neurology, 2018, 9, 881.	2.4	10
42	Trunk muscle activity during pressure feedback monitoring among individuals with and without chronic low Back pain. BMC Musculoskeletal Disorders, 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. Neural Plasticity, 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. Brain Sciences, 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. Medical Hypotheses, 2008, 70, 1068-1069.	1.5	9
46	Kinematic Outcome Measures using Target-Reaching Arm Movement in Stroke. Annals of Biomedical Engineering, 2017, 45, 2794-2803.	2.5	9
47	Alterations in Localized Electrical Impedance Myography of Biceps Brachii Muscles Paralyzed by Spinal Cord Injury. Frontiers in Neurology, 2017, 8, 253.	2.4	9
48	Speed-adaptive control of functional electrical stimulation for dropfoot correction. Journal of NeuroEngineering and Rehabilitation, 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. Frontiers in Neurology, 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. Frontiers in Neuroscience, 2019, 13, 1270.	2.8	9
51	EEG Changes in Time and Time-Frequency Domain During Movement Preparation and Execution in Stroke Patients. Frontiers in Neuroscience, 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. BMC Musculoskeletal Disorders, 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. Frontiers in Neuroscience, 2022, 16, .	2.8	9
54	FNS therapy for the functional restoration of the paralysed eyelid. Journal of Plastic, Reconstructive and Aesthetic Surgery, 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. Brain Injury, 2013, 27, 408-416.	1.2	8
56	Assessing the immediate impact of botulinum toxin injection on impedance of spastic muscle. Medical Engineering and Physics, 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. Behavioural Neurology, 2017, 2017, 1-9.	2.1	8
58	Assessing redistribution of muscle innervation zones after spinal cord injuries. Journal of Electromyography and Kinesiology, 2021, 59, 102550.	1.7	8
59	Effects of core stability training on older women with low back pain: a randomized controlled trial. European Review of Aging and Physical Activity, 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. Experimental Brain Research, 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. Technology and Health Care, 2015, 23, S355-S364.	1.2	7
63	Reduced knee hyperextension after wearing a robotic knee orthosis during gait training - a case study. Bio-Medical Materials and Engineering, 2015, 26, S381-S388.	0.6	7
64	Effects of Different Sling Settings on Electromyographic Activities of Selected Trunk Muscles: A Preliminary Research. BioMed Research International, 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. Neural Plasticity, 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. Journal of Biomechanics, 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. Medicine in Novel Technology and Devices, 2021, 11, 100069.	1.6	7
68	Effect of different terrains on onset timing, duration and amplitude of tibialis anterior activation. Biomedical Signal Processing and Control, 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. Trials, 2017, 18, 173.	1.6	6
70	Effects of consecutive slips in nerve signals recorded by implanted cuff electrode. Medical Engineering and Physics, 2008, 30, 460-465.	1.7	5
71	Kinematic Analysis of Trajectory Dimension-Dependent Sensorimotor Control in Arm Tracking. IEEE Access, 2019, 7, 8890-8900.	4.2	5
72	Detection of functional connectivity in the brain during visuo–guided grip force tracking tasks: A functional near–infrared spectroscopy study. Journal of Neuroscience Research, 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. Frontiers in Neurology, 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. Frontiers in Aging Neuroscience, 2022, 14, .	3.4	5
75	Evaluation of transcranial Doppler flow velocity changes in intracerebral hemorrhage rats using ultrasonography. Journal of Neuroscience Methods, 2012, 210, 272-280.	2.5	4
76	Combined Ultrasound Imaging and Biomechanical Modeling to Estimate Triceps Brachii Musculotendon Changes in Stroke Survivors. BioMed Research International, 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. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 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. Evidence-based Complementary and Alternative Medicine, 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. Frontiers in Neurology, 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. JMIR Serious Games, 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. Journal of International Medical Research, 2020, 48, 030006052091923.	1.0	2
84	Ultrasound Imaging of Muscle-tendon Architecture in Neurological Disease: Theoretical Basis and Clinical Applications. Current Medical Imaging, 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. Frontiers in Neurology, 2021, 12, 720901.	2.4	1
88	Architectural Changes of Thigh Muscles in Patients with Subacute Stroke after Body Weight Support Treadmill Training. Current Medical Imaging, 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. Journal of Healthcare Engineering, 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. Frontiers in Neurology, 0, 13, .	2.4	1
92	Muscle activation improvement during treadmill training at ischemia rat. , 2010, 2010, 4926-9.		0
93	6.3: Glassesâ€free Virtual Reality for Rehabilitation of Stroke Survivors. Digest of Technical Papers SID International Symposium, 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. Advances in Medical Technologies and Clinical Practice Book Series, 0, , 161-180.	0.3	0