

Raymond Kai-yu Tong

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

166
papers

3,879
citations

32
h-index

57
g-index

185
ext. papers

4,729
ext. citations

3.4
avg, IF

5.77
L-index

#	Paper	IF	Citations
166	Exploratory Study on the Clinical use of EEG for the People with Chronic Stroke and Their Correlation with the Neuropsychological Outcome.. <i>Clinical EEG and Neuroscience</i> , 2022 , 15500594221074858	2.3	2
165	All-Around Real Label Supervision: Cyclic Prototype Consistency Learning for Semi-supervised Medical Image Segmentation.. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2022 , PP,	7.2	2
164	Factors predictive of Ponseti casting for treating clubfoot: analysis of Bayesian Poisson regression model.. <i>European Review for Medical and Pharmacological Sciences</i> , 2022 , 26, 1868-1875	2.9	
163	Anti-interference from Noisy Labels: Mean-Teacher-assisted Confident Learning for Medical Image Segmentation. <i>IEEE Transactions on Medical Imaging</i> , 2022 , 1-1	11.7	1
162	Abnormal EEG Complexity and Alpha Oscillation of Resting State in Chronic Stroke Patients. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2021 , 2021, 6053-6057	0.9	
161	Disrupted cortico-peripheral interactions in motor disorders. <i>Clinical Neurophysiology</i> , 2021 , 132, 3136-3151	3.5	1
160	Kinect-based rapid movement training to improve balance recovery for stroke fall prevention: a randomized controlled trial. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2021 , 18, 150	5.3	3
159	How Many Muscles? Optimal Muscles Set Search for Optimizing Myocontrol Performance. <i>Frontiers in Computational Neuroscience</i> , 2021 , 15, 668579	3.5	2
158	The Effects of 10 Hz and 20 Hz tACS in Network Integration and Segregation in Chronic Stroke: A Graph Theoretical fMRI Study. <i>Brain Sciences</i> , 2021 , 11,	3.4	5
157	Wavelet coherence analysis of muscle coupling during reaching movement in stroke. <i>Computers in Biology and Medicine</i> , 2021 , 131, 104263	7	1
156	Impact of Coronavirus Disease 2019 (COVID-19) Outbreak Quarantine, Isolation, and Lockdown Policies on Mental Health and Suicide. <i>Frontiers in Psychiatry</i> , 2021 , 12, 565190	5	23
155	Infrared Thermal Imaging for Evaluation of Clubfoot After the Ponseti Casting Method-An Exploratory Study. <i>Frontiers in Pediatrics</i> , 2021 , 9, 595506	3.4	0
154	Artificial-Intelligence-Enabled Reagent-Free Imaging Hematology Analyzer. <i>Advanced Intelligent Systems</i> , 2021 , 3, 2000277	6	4
153	Effects of camera viewing angles on tracking kinematic gait patterns using Azure Kinect, Kinect v2 and Orbbec Astra Pro v2. <i>Gait and Posture</i> , 2021 , 87, 19-26	2.6	18
152	Neural Correlates of Motor Recovery after Robot-Assisted Training in Chronic Stroke: A Multimodal Neuroimaging Study. <i>Neural Plasticity</i> , 2021 , 2021, 8866613	3.3	1
151	A hybrid network for automatic hepatocellular carcinoma segmentation in H&E-stained whole slide images. <i>Medical Image Analysis</i> , 2021 , 68, 101914	15.4	9
150	Changes in electroencephalography complexity and functional magnetic resonance imaging connectivity following robotic hand training in chronic stroke. <i>Topics in Stroke Rehabilitation</i> , 2021 , 28, 276-288	2.6	2

149	Model-based online learning and adaptive control for a human-wearable soft robot-integrated system. <i>International Journal of Robotics Research</i> , 2021 , 40, 256-276	5.7	20
148	Probabilistic Model-based Learning Control of a Soft Pneumatic Glove for Hand Rehabilitation. <i>IEEE Transactions on Biomedical Engineering</i> , 2021 , PP,	5	2
147	Effects of wearable ankle robotics for stair and over-ground training on sub-acute stroke: a randomized controlled trial. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2021 , 18, 19	5.3	7
146	Hyperconnection and hyperperfusion of overlapping brain regions in patients with menstrual-related migraine: a multimodal neuroimaging study. <i>Neuroradiology</i> , 2021 , 63, 741-749	3.2	0
145	Effects of a Soft Robotic Hand for Hand Rehabilitation in Chronic Stroke Survivors. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2021 , 30, 105812	2.8	7
144	Artificial-Intelligence-Enabled Reagent-Free Imaging Hematology Analyzer. <i>Advanced Intelligent Systems</i> , 2021 , 3, 2170060	6	
143	Suffer together, bond together: Brain-to-brain synchronization and mutual affective empathy when sharing painful experiences. <i>NeuroImage</i> , 2021 , 238, 118249	7.9	1
142	Cortico-muscular interaction to monitor the effects of neuromuscular electrical stimulation pedaling training in chronic stroke. <i>Computers in Biology and Medicine</i> , 2021 , 137, 104801	7	1
141	Interface Engineering of Flexible Piezoresistive Sensors via Near-Field Electrospinning Processed Spacer Layers.. <i>Small Methods</i> , 2021 , 5, e2000842	12.8	6
140	BCI Training Effects on Chronic Stroke Correlate with Functional Reorganization in Motor-Related Regions: A Concurrent EEG and fMRI Study. <i>Brain Sciences</i> , 2021 , 11,	3.4	8
139	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	4.1	0
138	Impact of COVID-19 pandemic lockdown on occupational therapy practice and use of telerehabilitation - A cross sectional study. <i>European Review for Medical and Pharmacological Sciences</i> , 2021 , 25, 3614-3622	2.9	3
137	Verification of Finger Joint Stiffness Estimation Method With Soft Robotic Actuator. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 592637	5.8	1
136	Soft Rehabilitation Actuator With Integrated Post-stroke Finger Spasticity Evaluation. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 111	5.8	16
135	A Probabilistic Model-Based Online Learning Optimal Control Algorithm for Soft Pneumatic Actuators. <i>IEEE Robotics and Automation Letters</i> , 2020 , 5, 1437-1444	4.2	8
134	Rewiring the Lesioned Brain: Electrical Stimulation for Post-Stroke Motor Restoration. <i>Journal of Stroke</i> , 2020 , 22, 47-63	5.6	21
133	Anodal Transcranial Direct Current Stimulation of Anterior Cingulate Cortex Modulates Subcortical Brain Regions Resulting in Cognitive Enhancement. <i>Frontiers in Human Neuroscience</i> , 2020 , 14, 584136	3.3	5
132	Bionic robotics for post polio walking 2020 , 83-109		0

131	Muscle endurance time estimation during isometric training using electromyogram and supervised learning. <i>Journal of Electromyography and Kinesiology</i> , 2020 , 50, 102376	2.5	1
130	Interhemispheric Functional Reorganization and its Structural Base After BCI-Guided Upper-Limb Training in Chronic Stroke. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020 , 28, 2525-2536	4.8	8
129	Postural Stability in Obese Preoperative Bariatric Patients Using Static and Dynamic Evaluation. <i>Obesity Facts</i> , 2020 , 13, 499-513	5.1	4
128	Investigating muscle synergies changes after rehabilitation robotics training on stroke survivors: a pilot study. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2020 , 2020, 3731-3734	0.9	1
127	. <i>IEEE Sensors Journal</i> , 2020 , 1-1	4	3
126	Adapting to the Mechanical Properties and Active Force of an Exoskeleton by Altering Muscle Synergies in Chronic Stroke Survivors. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020 , 28, 2203-2213	4.8	7
125	Modulation of Functional Connectivity and Low-Frequency Fluctuations After Brain-Computer Interface-Guided Robot Hand Training in Chronic Stroke: A 6-Month Follow-Up Study. <i>Frontiers in Human Neuroscience</i> , 2020 , 14, 611064	3.3	3
124	Synchronization lag in post stroke: relation to motor function and structural connectivity. <i>Network Neuroscience</i> , 2019 , 3, 1121-1140	5.6	14
123	Cortical Contribution during Active and Passive Pedaling: A Preliminary Study 2019 ,		2
122	Robust Single Accelerometer-Based Activity Recognition Using Modified Recurrence Plot. <i>IEEE Sensors Journal</i> , 2019 , 19, 6317-6324	4	15
121	Bis(propyl)-cognitin potentiates rehabilitation of treadmill exercise after a transient focal cerebral ischemia, possibly via inhibiting NMDA receptor and regulating VEGF expression. <i>Neurochemistry International</i> , 2019 , 128, 143-153	4.4	6
120	Robotic Glove with Soft-Elastic Composite Actuators for Assisting Activities of Daily Living. <i>Soft Robotics</i> , 2019 , 6, 289-304	9.2	49
119	Myoelectric Pattern Recognition for Controlling a Robotic Hand: A Feasibility Study in Stroke. <i>IEEE Transactions on Biomedical Engineering</i> , 2019 , 66, 365-372	5	38
118	A Novel Iterative Learning Model Predictive Control Method for Soft Bending Actuators 2019 ,		8
117	Design of a 3D Printed Soft Robotic Hand for Stroke Rehabilitation and Daily Activities Assistance. <i>IEEE International Conference on Rehabilitation Robotics</i> , 2019 , 2019, 65-70	1.3	10
116	Ethical perspectives on advances in biogerontology. <i>Aging Medicine (Milton (N S W))</i> , 2019 , 2, 99-103	3.5	1
115	What Kind of Brain Structural Connectivity Remodeling Can Relate to Residual Motor Function After Stroke?. <i>Frontiers in Neurology</i> , 2019 , 10, 1111	4.1	4
114	Ambient assisted living technologies for older adults with cognitive and physical impairments: a review. <i>European Review for Medical and Pharmacological Sciences</i> , 2019 , 23, 10470-10481	2.9	11

113	Selective Feature Aggregation Network with Area-Boundary Constraints for Polyp Segmentation. <i>Lecture Notes in Computer Science</i> , 2019 , 302-310	0.9	42
112	Excitation Comparison between Multi-site Stimulation using Network-based tDCS and Focal Stimulation using High-definition tDCS. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2019 , 2019, 6884-6887	0.9	1
111	Pathway-specific modulatory effects of neuromuscular electrical stimulation during pedaling in chronic stroke survivors. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2019 , 16, 143	5.3	5
110	Cortico-Muscular Coherence Modulated by High-Definition Transcranial Direct Current Stimulation in People With Chronic Stroke. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2019 , 27, 304-313	4.8	10
109	Wearable Technology in Medicine and Health Care: Introduction 2018 , 1-5		3
108	Lower Limb Exoskeleton Robot to Facilitate the Gait of Stroke Patients 2018 , 91-111		2
107	Randomized controlled trial of robot-assisted gait training with dorsiflexion assistance on chronic stroke patients wearing ankle-foot-orthosis. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2018 , 15, 51	5.3	38
106	Speed-adaptive control of functional electrical stimulation for dropfoot correction. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2018 , 15, 98	5.3	4
105	Low Gamma Band Cortico-muscular Coherence Inter-Hemisphere Difference following Chronic Stroke. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2018 , 2018, 247-250	0.9	0
104	Dynamic Influence of Ongoing Brain Stimulation on Resting State fMRI Connectivity: A Concurrent tDCS-fMRI Study. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2018 , 2018, 1627-1630	0.9	1
103	Real-time Electromyography-driven Functional Electrical Stimulation Cycling System for Chronic Stroke Rehabilitation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2018 , 2018, 2515-2518	0.9	3
102	Development and Evaluation of a Kinect-based Rapid Movement Therapy Training Platform for Balance Rehabilitation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2018 , 2018, 2215-2218	0.9	1
101	Differentiated Effects of Robot Hand Training With and Without Neural Guidance on Neuroplasticity Patterns in Chronic Stroke. <i>Frontiers in Neurology</i> , 2018 , 9, 810	4.1	12
100	A Novel Soft Robotic Glove for Daily Life Assistance 2018 ,		3
99	Computerized Cognitive Screen (CoCoSc): A Self-Administered Computerized Test for Screening for Cognitive Impairment in Community Social Centers. <i>Journal of Alzheimeris Disease</i> , 2017 , 59, 1299-1306	4.3	9
98	Comparison of strategies and performance of functional electrical stimulation cycling in spinal cord injury pilots for competition in the first ever CYBATHLON. <i>European Journal of Translational Myology</i> , 2017 , 27, 7219	2.1	27
97	The Effectiveness of Functional Electrical Stimulation (FES) in On-Off Mode for Enhancing the Cycling Performance of Team Phoenix at 2016 Cybathlon. <i>European Journal of Translational Myology</i> , 2017 , 27, 7132	2.1	11
96	Design of an exoskeleton ankle robot for robot-assisted gait training of stroke patients. <i>IEEE International Conference on Rehabilitation Robotics</i> , 2017 , 2017, 211-215	1.3	23

95	Robotic Hand-Assisted Training for Spinal Cord Injury Driven by Myoelectric Pattern Recognition: A Case Report. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2017 , 96, S146-S149	2.6	9
94	Real-Time Control of an Exoskeleton Hand Robot with Myoelectric Pattern Recognition. <i>International Journal of Neural Systems</i> , 2017 , 27, 1750009	6.2	43
93	How to prepare a person with complete spinal cord injury to use surface electrodes for FES trike cycling. <i>IEEE International Conference on Rehabilitation Robotics</i> , 2017 , 2017, 801-805	1.3	5
92	Advanced Myoelectric Control for Robotic Hand-Assisted Training: Outcome from a Stroke Patient. <i>Frontiers in Neurology</i> , 2017 , 8, 107	4.1	20
91	Changes in Electroencephalography Complexity using a Brain Computer Interface-Motor Observation Training in Chronic Stroke Patients: A Fuzzy Approximate Entropy Analysis. <i>Frontiers in Human Neuroscience</i> , 2017 , 11, 444	3.3	20
90	Combined Ultrasound Imaging and Biomechanical Modeling to Estimate Triceps Brachii Musculotendon Changes in Stroke Survivors. <i>BioMed Research International</i> , 2016 , 2016, 5275768	3	2
89	Characterization of stroke- and aging-related changes in the complexity of EMG signals during tracking tasks. <i>Annals of Biomedical Engineering</i> , 2015 , 43, 990-1002	4.7	24
88	Effects of electromyography-driven robot-aided hand training with neuromuscular electrical stimulation on hand control performance after chronic stroke. <i>Disability and Rehabilitation: Assistive Technology</i> , 2015 , 10, 149-59	1.8	24
87	Efficacy of robot-assisted fingers training in chronic stroke survivors: a pilot randomized-controlled trial. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2015 , 12, 42	5.3	66
86	Hand exoskeleton robot for assessing hand and finger motor impairment after stroke. <i>HKIE Transactions</i> , 2015 , 22, 78-87	2.9	7
85	Wrist Rehabilitation Assisted by an Electromyography-Driven Neuromuscular Electrical Stimulation Robot After Stroke. <i>Neurorehabilitation and Neural Repair</i> , 2015 , 29, 767-76	4.7	55
84	Sensorimotor control of tracking movements at various speeds for stroke patients as well as age-matched and young healthy subjects. <i>PLoS ONE</i> , 2015 , 10, e0128328	3.7	19
83	Evaluation of the Microsoft Kinect as a clinical assessment tool of body sway. <i>Gait and Posture</i> , 2014 , 40, 532-8	2.6	92
82	Commentary to: including upper extremity robotic therapy during early inpatient stroke rehabilitation may not lead to better outcomes than conventional treatment. <i>Journal of Physiotherapy</i> , 2014 , 60, 166	2.9	
81	Assisted technology for daily living. <i>SpringerPlus</i> , 2014 , 3, K2		2
80	Gradually increased training intensity benefits rehabilitation outcome after stroke by BDNF upregulation and stress suppression. <i>BioMed Research International</i> , 2014 , 2014, 925762	3	27
79	Complexity analysis of EMG signals for patients after stroke during robot-aided rehabilitation training using fuzzy approximate entropy. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2014 , 22, 1013-9	4.8	41
78	Myoelectrically controlled wrist robot for stroke rehabilitation. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2013 , 10, 52	5.3	59

77	EMG and kinematic analysis of sensorimotor control for patients after stroke using cyclic voluntary movement with visual feedback. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2013 , 10, 18	5.3	11
76	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, 373-82	2.3	6
75	Fine finger motor skill training with exoskeleton robotic hand in chronic stroke: stroke rehabilitation. <i>IEEE International Conference on Rehabilitation Robotics</i> , 2013 , 2013, 6650392	1.3	15
74	The effects of post-stroke upper-limb training with an electromyography (EMG)-driven hand robot. <i>Journal of Electromyography and Kinesiology</i> , 2013 , 23, 1065-74	2.5	76
73	Neural correlates of motor impairment during motor imagery and motor execution in sub-cortical stroke. <i>Brain Injury</i> , 2013 , 27, 651-63	2.1	9
72	EEG patterns from acute to chronic stroke phases in focal cerebral ischemic rats: correlations with functional recovery. <i>Physiological Measurement</i> , 2013 , 34, 423-35	2.9	21
71	Coordinated upper limb training assisted with an electromyography (EMG)-driven hand robot after stroke. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 5903-6	0.9	5
70	The effects of training intensities on motor recovery and gait symmetry in a rat model of ischemia. <i>Brain Injury</i> , 2013 , 27, 408-16	2.1	8
69	Channel selection in chronic stroke rehabilitation. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013 , 46, 339-344		
68	A longitudinal study of hand motor recovery after sub-acute stroke: a study combined FMRI with diffusion tensor imaging. <i>PLoS ONE</i> , 2013 , 8, e64154	3.7	24
67	The effects of electromechanical wrist robot assistive system with neuromuscular electrical stimulation for stroke rehabilitation. <i>Journal of Electromyography and Kinesiology</i> , 2012 , 22, 431-9	2.5	30
66	Evaluation of transcranial Doppler flow velocity changes in intracerebral hemorrhage rats using ultrasonography. <i>Journal of Neuroscience Methods</i> , 2012 , 210, 272-80	3	3
65	Does acupuncture therapy alter activation of neural pathway for pain perception in irritable bowel syndrome?: a comparative study of true and sham acupuncture using functional magnetic resonance imaging. <i>Journal of Neurogastroenterology and Motility</i> , 2012 , 18, 305-16	4.4	36
64	KineLabs 3D motion software platform using Kinect 2012 ,		1
63	2012 ,		7
62	Performance of common spatial pattern under a smaller set of EEG electrodes in brain-computer interface on chronic stroke patients: a multi-session dataset study. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 2011-7	0.9	4
61	An EMG-driven exoskeleton hand robotic training device on chronic stroke subjects: task training system for stroke rehabilitation. <i>IEEE International Conference on Rehabilitation Robotics</i> , 2011 , 2011, 5975340	1.3	150
60	Post-stroke wrist rehabilitation assisted with an intention-driven functional electrical stimulation (FES)-robot system. <i>IEEE International Conference on Rehabilitation Robotics</i> , 2011 , 2011, 5975424	1.3	8

59	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, 318-26	2.5	10
58	A minimal set of electrodes for motor imagery BCI to control an assistive device in chronic stroke subjects: a multi-session study. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2011 , 19, 617-27	4.8	79
57	The effects of voluntary, involuntary, and forced exercises on motor recovery in a stroke rat model. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 8223-6	0.9	9
56	The responsiveness and correlation between Fugl-Meyer Assessment, Motor Status Scale, and the Action Research Arm Test in chronic stroke with upper-extremity rehabilitation robotic training. <i>International Journal of Rehabilitation Research</i> , 2011 , 34, 349-56	1.8	45
55	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	3.7	190
54	Muscle activation improvement during treadmill training at ischemia rat. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 4926-9	0.9	
53	Effectiveness of functional electrical stimulation (FES)-robot assisted wrist training on persons after stroke. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 5819-22	0.9	8
52	An intention driven hand functions task training robotic system. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 3406-9	0.9	68
51	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	3.5	11
50	Cerebral plasticity after subcortical stroke as revealed by cortico-muscular coherence. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2009 , 17, 234-43	4.8	24
49	Support vector machine for classification of walking conditions of persons after stroke with dropped foot. <i>Human Movement Science</i> , 2009 , 28, 504-14	2.4	64
48	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, 101-9	3.2	28
47	Quantitative evaluation of motor functional recovery process in chronic stroke patients during robot-assisted wrist training. <i>Journal of Electromyography and Kinesiology</i> , 2009 , 19, 639-50	2.5	79
46	FNS therapy for the functional restoration of the paralysed eyelid. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , 2009 , 62, e622-4	1.7	8
45	Bilateral upper limb training with functional electric stimulation in patients with chronic stroke. <i>Neurorehabilitation and Neural Repair</i> , 2009 , 23, 357-65	4.7	75
44	A comparison between electromyography-driven robot and passive motion device on wrist rehabilitation for chronic stroke. <i>Neurorehabilitation and Neural Repair</i> , 2009 , 23, 837-46	4.7	131
43	2009 ,		7
42	A randomized controlled trial on the recovery process of wrist rehabilitation assisted by Electromyography (EMG)-Driven robot for chronic stroke 2009 ,		4

41	Interactive robot-assisted training system using continuous EMG signals for stroke rehabilitation 2009,		4
40	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, 371-9 ^{4.8}		130
39	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, 1068-9	3.8	9
38	Relationship of serum brain-derived neurotrophic factor (BDNF) and health-related lifestyle in healthy human subjects. <i>Neuroscience Letters</i> , 2008 , 447, 124-8	3.3	67
37	Evaluation of velocity-dependent performance of the spastic elbow during voluntary movements. <i>Archives of Physical Medicine and Rehabilitation</i> , 2008 , 89, 1140-5	2.8	6
36	The reliability of using accelerometer and gyroscope for gait event identification on persons with dropped foot. <i>Gait and Posture</i> , 2008 , 27, 248-57	2.6	122
35	Combined Electromyography(EMG)-driven system with functional electrical stimulation (FES) for poststroke rehabilitation 2008,		12
34	2008,		4
33	Study on connectivity between coherent central rhythm and electromyographic activities. <i>Journal of Neural Engineering</i> , 2008 , 5, 324-32	5	22
32	BCI-FES training system design and implementation for rehabilitation of stroke patients 2008,		15
31	A pilot study of randomized clinical controlled trial of gait training in subacute stroke patients with partial body-weight support electromechanical gait trainer and functional electrical stimulation: six-month follow-up. <i>Stroke</i> , 2008 , 39, 154-60	6.7	117
30	Design of rehabilitation robot hand for fingers CPM training 2008,		1
29	Support vector machine for classification of walking conditions using miniature kinematic sensors. <i>Medical and Biological Engineering and Computing</i> , 2008 , 46, 563-73	3.1	74
28	Effects of consecutive slips in nerve signals recorded by implanted cuff electrode. <i>Medical Engineering and Physics</i> , 2008 , 30, 460-5	2.4	4
27	Muscle Synergies in Chronic Stroke during a Robot-Assisted Wrist Training 2007,		1
26	Myoelectrically Controlled Robotic System That Provide Voluntary Mechanical Help for Persons after Stroke 2007,		9
25	The effect of poststroke impairments on brachialis muscle architecture as measured by ultrasound. <i>Archives of Physical Medicine and Rehabilitation</i> , 2007 , 88, 243-50	2.8	69
24	Variation of muscle coactivation patterns in chronic stroke during robot-assisted elbow training. <i>Archives of Physical Medicine and Rehabilitation</i> , 2007 , 88, 1022-9	2.8	63

23	Is maximum isometric muscle stress the same among prime elbow flexors?. <i>Clinical Biomechanics</i> , 2007 , 22, 874-83	2.2	15
22	The mechanomyography of persons after stroke during isometric voluntary contractions. <i>Journal of Electromyography and Kinesiology</i> , 2007 , 17, 473-83	2.5	28
21	The therapeutic effects of myoelectrically controlled robotic system for persons after stroke--a pilot study. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2006 , 2006, 4945-8		3
20	Coactivations of elbow and shoulder muscles in hemiplegic persons with chronic stroke during robot-assisted training. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2006 , 2006, 4933-5		1
19	Gait training of patients after stroke using an electromechanical gait trainer combined with simultaneous functional electrical stimulation. <i>Physical Therapy</i> , 2006 , 86, 1282-94	3.3	43
18	A pilot studies in dynamic profile of multi parameters of EEG in a rat model of transient middle cerebral artery occlusion. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2006 , 2006, 1181-4		2
17	Joint-angle-dependent neuromuscular dysfunctions at the wrist in persons after stroke. <i>Archives of Physical Medicine and Rehabilitation</i> , 2006 , 87, 671-9	2.8	25
16	Effectiveness of gait training using an electromechanical gait trainer, with and without functional electric stimulation, in subacute stroke: a randomized controlled trial. <i>Archives of Physical Medicine and Rehabilitation</i> , 2006 , 87, 1298-304	2.8	127
15	Firing properties of motor units during fatigue in subjects after stroke. <i>Journal of Electromyography and Kinesiology</i> , 2006 , 16, 469-76	2.5	32
14	Neurochemical effects of exercise and neuromuscular electrical stimulation on brain after stroke: a microdialysis study using rat model. <i>Neuroscience Letters</i> , 2006 , 397, 135-9	3.3	24
13	Using recurrent artificial neural network model to estimate voluntary elbow torque in dynamic situations. <i>Medical and Biological Engineering and Computing</i> , 2005 , 43, 473-80	3.1	65
12	Musculotendon parameters estimation by ultrasound measurement and geometric modeling: application on brachialis muscle. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2005 , 2005, 4974-7		2
11	Development of an EOG (Electro-Oculography) Based Human-Computer Interface. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2005 , 2005, 6829-31		11
10	Development of a circuit for functional electrical stimulation. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2004 , 12, 43-7	4.8	30
9	Oscillations in the power spectra of motor unit signals caused by refractoriness variations. <i>Journal of Neural Engineering</i> , 2004 , 1, 174-85	5	3
8	Command control for functional electrical stimulation hand grasp systems using miniature accelerometers and gyroscopes. <i>Medical and Biological Engineering and Computing</i> , 2003 , 41, 710-7	3.1	20
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6	Artificial Neural Network Control on Functional Electrical Stimulation Assisted Gait for Persons with Spinal Cord Injury. <i>Perspectives in Neural Computing</i> , 2000 , 181-193		1

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4	Gait control system for functional electrical stimulation using neural networks. <i>Medical and Biological Engineering and Computing</i> , 1999 , 37, 35-41	3.1	23
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2	Virtual artificial sensor technique for functional electrical stimulation. <i>Medical Engineering and Physics</i> , 1998 , 20, 458-68	2.4	30
1	Control for FES hand grasp systems using accelerometers and gyroscopes		1