Xiao-Ying LÃ¼

List of Publications by Year
in descending order

20 papers	147 citations	1163117 8 h-index	1281871 11 g-index
20 all docs	20 docs citations	20 times ranked	129 citing authors

#	Article	IF	Citations
1	A frequency and pulse-width co-modulation strategy for transcutaneous neuromuscular electrical stimulation based on sEMG time-domain features. Journal of Neural Engineering, 2016, 13, 016004.	3.5	18
2	Electrode placement on the forearm for selective stimulation of finger extension/flexion. PLoS ONE, 2018, 13, e0190936.	2.5	17
3	A wireless wearable surface functional electrical stimulator. International Journal of Electronics, 2017, 104, 1514-1526.	1.4	13
4	Electromyographic bridge for promoting the recovery of hand movements in subacute stroke patients: A randomized controlled trial. Journal of Rehabilitation Medicine, 2017, 49, 629-636.	1.1	13
5	A Data-Driven Volitional EMG Extraction Algorithm During Functional Electrical Stimulation With Time Variant Parameters. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 1069-1080.	4.9	13
6	Wearable EMG Bridgeâ€"A Multiple-Gesture Reconstruction System Using Electrical Stimulation Controlled by the Volitional Surface Electromyogram of a Healthy Forearm. IEEE Access, 2020, 8, 137330-137341.	4.2	11
7	A Wearable, High-Resolution, and Wireless System for Multichannel Surface Electromyography Detection. IEEE Sensors Journal, 2021, 21, 9937-9948.	4.7	11
8	The Principle of the Micro-Electronic Neural Bridge and a Prototype System Design. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2016, 24, 180-191.	4.9	10
9	Quantitative evaluation of extrinsic factors influencing electrical excitability in neuronal networks: Voltage Threshold Measurement Method (VTMM). Neural Regeneration Research, 2018, 13, 1026.	3.0	6
10	Electromyographic Bridgeâ€"a multi-movement volitional control method for functional electrical stimulation: prototype system design and experimental validation. , 2017, 2017, 205-208.		5
11	Silicon-based microelectrode arrays for stimulation and signal recording of in vitro cultured neurons. Science China Information Sciences, 2011, 54, 2199-2208.	4.3	4
12	Design of sEMG-detecting circuit for EMG-Bridge. , 2017, 2017, 382-385.		4
13	A wearable multi-pad electrode prototype for selective functional electrical stimulation of upper extremities. , 2017, 2017, 714-717.		4
14	Experimental Study on Nerve Signals Block for Spasticity Based on Antimissile Strategy. , 2018, 2018, 2260-2263.		3
15	A hybrid method for real-time stimulation artefact removal during functional electrical stimulation with time-variant parameters. Journal of Neural Engineering, 2021, 18, 046028.	3.5	3
16	Real-Time Artifact Removal System for Surface EMG Processing During Ten-Fold Frequency Electrical Stimulation. IEEE Access, 2021, 9, 68320-68331.	4.2	3
17	Inhibiting Spasticity by Blocking Nerve Signal Conduction in Rats With Spinal Cord Transection. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 2355-2364.	4.9	3
18	Neural Signal Blocking Based on Spike Trapping Principle: Effect of Electrode and Pulse Parameters. IEEE Access, 2020, 8, 64545-64554.	4.2	2

#	Article	IF	Citations
19	Conjoint analysis of influence of LC-HCL and Mor-HCL on Vth and neurite length in hippocampal neuronal network. Neuroscience Letters, 2021, 751, 135801.	2.1	2
20	Study on influence of external factors on the electrical excitability of PC12 quasi-neuronal networks through Voltage Threshold Measurement Method. PLoS ONE, 2022, 17, e0265078.	2.5	2