

Ning Lan

List of Publications by Year in descending order

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45
papers

1,002
citations

471509

17
h-index

454955

30
g-index

45
all docs

45
docs citations

45
times ranked

786
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of Myoelectric Control Module for Prosthetic Hand with Artifact Removal during Sensory Electrical Stimulation. , 2022, , .		3
2	Evaluation of multiple perceptual qualities of transcutaneous electrical nerve stimulation for evoked tactile sensation in forearm amputees. Journal of Neural Engineering, 2022, 19, 026041.	3.5	11
3	A pilot study of synergy-based FES for upper-extremity poststroke rehabilitation. Neuroscience Letters, 2022, 780, 136621.	2.1	8
4	Neuromorphic Model of Reflex for Realtime Human-Like Compliant Control of Prosthetic Hand. Annals of Biomedical Engineering, 2021, 49, 673-688.	2.5	16
5	Evaluation of Model-Based Biomimetic Control of Prosthetic Finger Force for Grasp. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 1723-1733.	4.9	12
6	Next-Generation Prosthetic Hand: from Biomimetic to Biorealistic. Research, 2021, 2021, 4675326.	5.7	22
7	A Pilot Study of Multi-Site Simultaneous Stimulation for Tactile and Opening Information Feedback in the Prosthetic Hand. , 2021, , .		4
8	Analysis of motor module transition from tremor to voluntary reaching movement in patients with Parkinson's disease. , 2021, , .		0
9	An Integrated Virtual Hand Platform for Evaluation of Model-Based Control of Hand Prosthesis. , 2021, , .		3
10	Biorealistic Control of Hand Prosthesis Augments Functional Performance of Individuals With Amputation. Frontiers in Neuroscience, 2021, 15, 783505.	2.8	7
11	Automated functional electrical stimulation training system for upper-limb function recovery in poststroke patients. Medical Engineering and Physics, 2020, 84, 174-183.	1.7	10
12	An Experimental Protocol for Evaluating Pulse Width Modulation Ranges of Evoked Tactile Sensory Feedback in Amputees. , 2020, 2020, 3869-3872.		4
13	Restoring Finger-Specific Sensory Feedback for Transradial Amputees via Non-Invasive Evoked Tactile Sensation. IEEE Open Journal of Engineering in Medicine and Biology, 2020, 1, 98-107.	2.3	29
14	Highly Selective Biomimetic Flexible Tactile Sensor for Neuroprosthetics. Research, 2020, 2020, 8910692.	5.7	26
15	Achieving Neural Compatibility With Human Sensorimotor Control in Prosthetic and Therapeutic Devices. IEEE Transactions on Medical Robotics and Bionics, 2019, 1, 122-134.	3.2	16
16	Muscle synergy changes with cutaneous stimulation during resting tremor and reaching task in Parkinson's disease. , 2019, , .		2
17	Evaluation of tremor interference with control of voluntary reaching movements in patients with Parkinson's disease. Journal of NeuroEngineering and Rehabilitation, 2019, 16, 38.	4.6	8
18	The impact of evoked cutaneous afferents on voluntary reaching movement in patients with Parkinson's disease. Journal of Neural Engineering, 2019, 16, 036029.	3.5	11

#	ARTICLE	IF	CITATIONS
19	Synergy-Based FES for Post-Stroke Rehabilitation of Upper-Limb Motor Functions. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2019, 27, 256-264.	4.9	48
20	Effects of Muscle Properties and Motor-Unit Differentiation on Virtual Reflex for Biomimetic Prosthetic Hand. , 2019, , .		0
21	A Novel FES Strategy for Poststroke Rehabilitation Based on the Natural Organization of Neuromuscular Control. IEEE Reviews in Biomedical Engineering, 2019, 12, 154-167.	18.0	27
22	Design of a Biomimetic Control System for Tendon-driven Prosthetic Hand. , 2018, , .		3
23	Customization of Synergy-Based FES for Post-Stroke Rehabilitation of Upper-Limb Motor Functions. , 2018, 2018, 3541-3544.		3
24	Evaluation of Functional Correlation of Task-Specific Muscle Synergies with Motor Performance in Patients Poststroke. Frontiers in Neurology, 2017, 8, 337.	2.4	38
25	Inhibition of Parkinsonian tremor with cutaneous afferent evoked by transcutaneous electrical nerve stimulation. Journal of NeuroEngineering and Rehabilitation, 2017, 14, 75.	4.6	16
26	Neural computational modeling reveals a major role of corticospinal gating of central oscillations in the generation of essential tremor. Neural Regeneration Research, 2017, 12, 2035.	3.0	7
27	Development of network-based multichannel neuromuscular electrical stimulation system for stroke rehabilitation. Journal of Rehabilitation Research and Development, 2016, 52, 263-278.	1.6	16
28	Editorial: Neural and Computational Modeling of Movement Control. Frontiers in Computational Neuroscience, 2016, 10, 90.	2.1	5
29	Contribution of inter-muscular synchronization in the modulation of tremor intensity in Parkinson's disease. Journal of NeuroEngineering and Rehabilitation, 2015, 12, 108.	4.6	14
30	Coordinated alpha and gamma control of muscles and spindles in movement and posture. Frontiers in Computational Neuroscience, 2015, 9, 122.	2.1	29
31	Characterization of evoked tactile sensation in forearm amputees with transcutaneous electrical nerve stimulation. Journal of Neural Engineering, 2015, 12, 066002.	3.5	88
32	Review on tactile sensory feedback of prosthetic hands for the upper-limb amputees by sensory afferent stimulation. Journal of Shanghai Jiaotong University (Science), 2014, 19, 587-591.	0.9	7
33	Evaluation of Feedforward and Feedback Contributions to Hand Stiffness and Variability in Multijoint Arm Control. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2013, 21, 634-647.	4.9	19
34	Perceptual attributes of cutaneous electrical stimulation to provide sensory information for prosthetic limb. , 2013, , .		6
35	Corticomuscular Transmission of Tremor Signals by Propriospinal Neurons in Parkinson's Disease. PLoS ONE, 2013, 8, e79829.	2.5	25
36	Fusimotor control of spindle sensitivity regulates central and peripheral coding of joint angles. Frontiers in Computational Neuroscience, 2012, 6, 66.	2.1	25

#	ARTICLE	IF	CITATIONS
37	Validation of a Virtual Arm Model for Movement Control and Rehabilitation. , 2012, , .		2
38	Mathematical Models of Proprioceptors. I. Control and Transduction in the Muscle Spindle. Journal of Neurophysiology, 2006, 96, 1772-1788.	1.8	166
39	Reflex regulation of antagonist muscles for control of joint equilibrium position. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2005, 13, 60-71.	4.9	39
40	Stability analysis for postural control in a two-joint limb system. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2002, 10, 249-259.	4.9	32
41	Analysis of an optimal control model of multi-joint arm movements. Biological Cybernetics, 1997, 76, 107-117.	1.3	52
42	Neural network generation of muscle stimulation patterns for control of arm movements. IEEE Transactions on Rehabilitation Engineering: A Publication of the IEEE Engineering in Medicine and Biology Society, 1994, 2, 213-224.	1.4	71
43	Optimal control of antagonistic muscle stiffness during voluntary movements. Biological Cybernetics, 1994, 71, 123-135.	1.3	14
44	Equilibrium-point hypothesis, minimum effort control strategy and the triphasic muscle activation pattern. Behavioral and Brain Sciences, 1992, 15, 769-771.	0.7	47
45	A noninvasive technique for in vivo measurement of joint torques of biarticular muscles. Journal of Biomechanics, 1992, 25, 1075-1079.	2.1	11