

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	Mathematical Models of Proprioceptors. I. Control and Transduction in the Muscle Spindle. Journal of Neurophysiology, 2006, 96, 1772-1788.	1.8	166
2	Characterization of evoked tactile sensation in forearm amputees with transcutaneous electrical nerve stimulation. Journal of Neural Engineering, 2015, 12, 066002.	3.5	88
3	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
4	Analysis of an optimal control model of multi-joint arm movements. Biological Cybernetics, 1997, 76, 107-117.	1.3	52
5	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
6	Equilibrium-point hypothesis, minimum effort control strategy and the triphasic muscle activation pattern. Behavioral and Brain Sciences, 1992, 15, 769-771.	0.7	47
7	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
8	Evaluation of Functional Correlation of Task-Specific Muscle Synergies with Motor Performance in Patients Poststroke. Frontiers in Neurology, 2017, 8, 337.	2.4	38
9	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
10	Coordinated alpha and gamma control of muscles and spindles in movement and posture. Frontiers in Computational Neuroscience, 2015, 9, 122.	2.1	29
11	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
12	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
13	Highly Selective Biomimetic Flexible Tactile Sensor for Neuroprosthetics. Research, 2020, 2020, 8910692.	5.7	26
14	Fusimotor control of spindle sensitivity regulates central and peripheral coding of joint angles. Frontiers in Computational Neuroscience, 2012, 6, 66.	2.1	25
15	Corticomuscular Transmission of Tremor Signals by Propriospinal Neurons in Parkinson's Disease. PLoS ONE, 2013, 8, e79829.	2.5	25
16	Next-Generation Prosthetic Hand: from Biomimetic to Biorealistic. Research, 2021, 2021, 4675326.	5.7	22
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Inhibition of Parkinsonian tremor with cutaneous afferent evoked by transcutaneous electrical nerve stimulation. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2017, 14, 75.	4.6	16
20	Achieving Neural Compatibility With Human Sensorimotor Control in Prosthetic and Therapeutic Devices. <i>IEEE Transactions on Medical Robotics and Bionics</i> , 2019, 1, 122-134.	3.2	16
21	Neuromorphic Model of Reflex for Realtime Human-Like Compliant Control of Prosthetic Hand. <i>Annals of Biomedical Engineering</i> , 2021, 49, 673-688.	2.5	16
22	Contribution of inter-muscular synchronization in the modulation of tremor intensity in Parkinson's disease. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2015, 12, 108.	4.6	14
23	Optimal control of antagonistic muscle stiffness during voluntary movements. <i>Biological Cybernetics</i> , 1994, 71, 123-135.	1.3	14
24	Evaluation of Model-Based Biomimetic Control of Prosthetic Finger Force for Grasp. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2021, 29, 1723-1733.	4.9	12
25	A noninvasive technique for in vivo measurement of joint torques of biarticular muscles. <i>Journal of Biomechanics</i> , 1992, 25, 1075-1079.	2.1	11
26	The impact of evoked cutaneous afferents on voluntary reaching movement in patients with Parkinson's disease. <i>Journal of Neural Engineering</i> , 2019, 16, 036029.	3.5	11
27	Evaluation of multiple perceptual qualities of transcutaneous electrical nerve stimulation for evoked tactile sensation in forearm amputees. <i>Journal of Neural Engineering</i> , 2022, 19, 026041.	3.5	11
28	Automated functional electrical stimulation training system for upper-limb function recovery in poststroke patients. <i>Medical Engineering and Physics</i> , 2020, 84, 174-183.	1.7	10
29	Evaluation of tremor interference with control of voluntary reaching movements in patients with Parkinson's disease. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2019, 16, 38.	4.6	8
30	A pilot study of synergy-based FES for upper-extremity poststroke rehabilitation. <i>Neuroscience Letters</i> , 2022, 780, 136621.	2.1	8
31	Review on tactile sensory feedback of prosthetic hands for the upper-limb amputees by sensory afferent stimulation. <i>Journal of Shanghai Jiaotong University (Science)</i> , 2014, 19, 587-591.	0.9	7
32	Neural computational modeling reveals a major role of corticospinal gating of central oscillations in the generation of essential tremor. <i>Neural Regeneration Research</i> , 2017, 12, 2035.	3.0	7
33	Biorealistic Control of Hand Prosthesis Augments Functional Performance of Individuals With Amputation. <i>Frontiers in Neuroscience</i> , 2021, 15, 783505.	2.8	7
34	Perceptual attributes of cutaneous electrical stimulation to provide sensory information for prosthetic limb. , 2013, , .		6
35	Editorial: Neural and Computational Modeling of Movement Control. <i>Frontiers in Computational Neuroscience</i> , 2016, 10, 90.	2.1	5
36	An Experimental Protocol for Evaluating Pulse Width Modulation Ranges of Evoked Tactile Sensory Feedback in Amputees. , 2020, 2020, 3869-3872.		4

#	ARTICLE	IF	CITATIONS
37	A Pilot Study of Multi-Site Simultaneous Stimulation for Tactile and Opening Information Feedback in the Prosthetic Hand. , 2021, , .		4
38	Design of a Biomimetic Control System for Tendon-driven Prosthetic Hand. , 2018, , .		3
39	Customization of Synergy-Based FES for Post-Stroke Rehabilitation of Upper-Limb Motor Functions. , 2018, 2018, 3541-3544.		3
40	An Integrated Virtual Hand Platform for Evaluation of Model-Based Control of Hand Prosthesis. , 2021, , .		3
41	Development of Myoelectric Control Module for Prosthetic Hand with Artifact Removal during Sensory Electrical Stimulation. , 2022, , .		3
42	Validation of a Virtual Arm Model for Movement Control and Rehabilitation. , 2012, , .		2
43	Muscle synergy changes with cutaneous stimulation during resting tremor and reaching task in Parkinson's disease. , 2019, , .		2
44	Effects of Muscle Properties and Motor-Unit Differentiation on Virtual Reflex for Biomimetic Prosthetic Hand. , 2019, , .		0
45	Analysis of motor module transition from tremor to voluntary reaching movement in patients with Parkinson's disease. , 2021, , .		0