Inchan Youn

List of Publications by Year
in descending order

39 papers	2,140 citations	393982 19 h-index	329751 37 g-index
39 all docs	39 docs citations	39 times ranked	3899 citing authors

#	Article	IF	Citations
1	Prediction of Lower Extremity Multi-Joint Angles during Overground Walking by Using a Single IMU with a Low Frequency Based on an LSTM Recurrent Neural Network. Sensors, 2022, 22, 53.	2.1	22
2	Ultrasound Stimulation Increases Neurite Regeneration in Injured Dorsal Root Ganglion Neurons through Mammalian Target of Rapamycin Activation. Brain Sciences, 2020, 10, 409.	1.1	4
3	Adaptive self-healing electronic epineurium for chronic bidirectional neural interfaces. Nature Communications, 2020, 11, 4195.	5.8	60
4	Linear feature projection-based real-time decoding of limb state from dorsal root ganglion recordings. Journal of Computational Neuroscience, 2019, 46, 77-90.	0.6	2
5	Ultrasonic Neuromodulation via Astrocytic TRPA1. Current Biology, 2019, 29, 3386-3401.e8.	1.8	139
6	Ambulatory and Laboratory Stress Detection Based on Raw Electrocardiogram Signals Using a Convolutional Neural Network. Sensors, 2019, 19, 4408.	2.1	27
7	Protocatechuic acid improves functional recovery after spinal cord injury by attenuating blood-spinal cord barrier disruption and hemorrhage in rats. Neurochemistry International, 2019, 124, 181-192.	1.9	22
8	Compact Neural Interface Using a Single Multichannel Cuff Electrode for a Functional Neuromuscular Stimulation System. Annals of Biomedical Engineering, 2019, 47, 754-766.	1.3	9
9	Fluorogenic Probe for Detecting Active Matrix Metalloproteinase-3 (MMP-3) in Plasma and Peripheral Blood Neutrophils to Indicate the Severity of Rheumatoid Arthritis. ACS Biomaterials Science and Engineering, 2019, 5, 3039-3048.	2.6	6
10	An Ultrastretchable and Self-Healable Nanocomposite Conductor Enabled by Autonomously Percolative Electrical Pathways. ACS Nano, 2019, 13, 6531-6539.	7.3	99
11	Electrical stimulation accelerates neurite regeneration in axotomized dorsal root ganglion neurons by increasing MMP-2 expression. Biochemical and Biophysical Research Communications, 2019, 508, 348-353.	1.0	12
12	Hemodynamic correlation imaging of the mouse brain for application in unilateral neurodegenerative diseases. Biomedical Optics Express, 2019, 10, 1736.	1.5	4
13	Graded 6-OHDA-induced dopamine depletion in the nigrostriatal pathway evokes progressive pathological neuronal activities in the subthalamic nucleus of a hemi-parkinsonian mouse. Behavioural Brain Research, 2018, 344, 42-47.	1.2	11
14	Implantation of a Matrigel-loaded agarose scaffold promotes functional regeneration of axons after spinal cord injury in rat. Biochemical and Biophysical Research Communications, 2018, 496, 785-791.	1.0	23
15	Ketamine Inhibits Ultrasound Stimulation-Induced Neuromodulation by Blocking Cortical Neuron Activity. Ultrasound in Medicine and Biology, 2018, 44, 635-646.	0.7	24
16	Compact Optical Nerve Cuff Electrode for Simultaneous Neural Activity Monitoring and Optogenetic Stimulation of Peripheral Nerves. Scientific Reports, 2018, 8, 15630.	1.6	14
17	Determination of Optimal Heart Rate Variability Features Based on SVM-Recursive Feature Elimination for Cumulative Stress Monitoring Using ECG Sensor. Sensors, 2018, 18, 2387.	2.1	25
18	A Novel R Peak Detection Method for Mobile Environments. IEEE Access, 2018, 6, 51227-51237.	2.6	22

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19	Modulation of Cerebellar Cortical Plasticity Using Low-Intensity Focused Ultrasound for Poststroke Sensorimotor Function Recovery. Neurorehabilitation and Neural Repair, 2018, 32, 777-787.	1.4	35
20	An Implantable Wireless Neural Interface System for Simultaneous Recording and Stimulation of Peripheral Nerve with a Single Cuff Electrode. Sensors, 2018, 18, 1.	2.1	1,141
21	Linear Feature Projection-Based Sensory Event Detection from the Multiunit Activity of Dorsal Root Ganglion Recordings. Sensors, 2018, 18, 1002.	2.1	1
22	Ankle-Angle Estimation from Blind Source Separated Afferent Activity in the Sciatic Nerve for Closed-Loop Functional Neuromuscular Stimulation System. IEEE Transactions on Biomedical Engineering, 2017, 64, 834-843.	2.5	17
23	Multiunit Activity-Based Real-Time Limb-State Estimation from Dorsal Root Ganglion Recordings. Scientific Reports, 2017, 7, 44197.	1.6	17
24	Differential heart rate variability and physiological responses associated with accumulated short- and long-term stress in rodents. Physiology and Behavior, 2017, 171, 21-31.	1.0	23
25	The Role of Heart-Rate Variability Parameters in Activity Recognition and Energy-Expenditure Estimation Using Wearable Sensors. Sensors, 2017, 17, 1698.	2.1	29
26	Electrical stimulation inhibits cytosine arabinoside-induced neuronal death by preventing apoptosis in dorsal root ganglion neurons. NeuroReport, 2016, 27, 1217-1224.	0.6	11
27	An Unsorted Spike-Based Pattern Recognition Method for Real-Time Continuous Sensory Event Detection from Dorsal Root Ganglion Recording. IEEE Transactions on Biomedical Engineering, 2016, 63, 1310-1320.	2.5	7
28	Characteristics of the neuronal firing patterns in the subthalamic nucleus with graded dopaminergic cell loss in the nigrostriatal pathway. , 2015, 2015, 2510-3.		1
29	An implantable wireless optogenetic stimulation system for peripheral nerve control. , 2015, 2015, 1033-6.		6
30	A time-course study of behavioral and electrophysiological characteristics in a mouse model of different stages of Parkinson's disease using 6-hydroxydopamine. Behavioural Brain Research, 2015, 284, 153-157.	1.2	9
31	Prediction of Antiarthritic Drug Efficacies by Monitoring Active Matrix Metalloproteinase-3 (MMP-3) Levels in Collagen-Induced Arthritic Mice Using the MMP-3 Probe. Molecular Pharmaceutics, 2014, 11, 1450-1458.	2.3	12
32	TNF-α Gene Silencing Using Polymerized siRNA/Thiolated Glycol Chitosan Nanoparticles for Rheumatoid Arthritis. Molecular Therapy, 2014, 22, 397-408.	3.7	125
33	Feedback control of electrode offset voltage during functional electrical stimulation. Journal of Neuroscience Methods, 2013, 218, 55-71.	1.3	5
34	Detection of Active Matrix Metalloproteinase-3 in Serum and Fibroblast-Like Synoviocytes of Collagen-Induced Arthritis Mice. Bioconjugate Chemistry, 2013, 24, 1068-1074.	1.8	20
35	Gait phase detection from sciatic nerve recordings in functional electrical stimulation systems for foot drop correction. Physiological Measurement, 2013, 34, 541-565.	1.2	19
36	Biomimetic Aggrecan Reduces Cartilage Extracellular Matrix From Degradation and Lowers Catabolic Activity in Ex Vivo and In Vivo Models. Macromolecular Bioscience, 2013, 13, 1228-1237.	2.1	23

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37	Improvement of signal-to-interference ratio and signal-to-noise ratio in nerve cuff electrode systems. Physiological Measurement, 2012, 33, 943-967.	1.2	39
38	Optimization of matrix metalloproteinase fluorogenic probes for osteoarthritis imaging. Amino Acids, 2011, 41, 1113-1122.	1.2	25
39	Early diagnosis of arthritis in mice with collagen-induced arthritis, using a fluorogenic matrix metalloproteinase 3-specific polymeric probe. Arthritis and Rheumatism, 2011, 63, 3824-3832.	6.7	50