

# Inchan Youn

## List of Publications by Year in descending order

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Version: 2024-02-01

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	An Implantable Wireless Neural Interface System for Simultaneous Recording and Stimulation of Peripheral Nerve with a Single Cuff Electrode. <i>Sensors</i> , 2018, 18, 1.	2.1	1,141
2	Ultrasonic Neuromodulation via Astrocytic TRPA1. <i>Current Biology</i> , 2019, 29, 3386-3401.e8.	1.8	139
3	TNF- $\alpha$ Gene Silencing Using Polymerized siRNA/Thiolated Glycol Chitosan Nanoparticles for Rheumatoid Arthritis. <i>Molecular Therapy</i> , 2014, 22, 397-408.	3.7	125
4	An Ultrastretchable and Self-Healable Nanocomposite Conductor Enabled by Autonomously Percolative Electrical Pathways. <i>ACS Nano</i> , 2019, 13, 6531-6539.	7.3	99
5	Adaptive self-healing electronic epineurium for chronic bidirectional neural interfaces. <i>Nature Communications</i> , 2020, 11, 4195.	5.8	60
6	Early diagnosis of arthritis in mice with collagen-induced arthritis, using a fluorogenic matrix metalloproteinase 3-specific polymeric probe. <i>Arthritis and Rheumatism</i> , 2011, 63, 3824-3832.	6.7	50
7	Improvement of signal-to-interference ratio and signal-to-noise ratio in nerve cuff electrode systems. <i>Physiological Measurement</i> , 2012, 33, 943-967.	1.2	39
8	Modulation of Cerebellar Cortical Plasticity Using Low-Intensity Focused Ultrasound for Poststroke Sensorimotor Function Recovery. <i>Neurorehabilitation and Neural Repair</i> , 2018, 32, 777-787.	1.4	35
9	The Role of Heart-Rate Variability Parameters in Activity Recognition and Energy-Expenditure Estimation Using Wearable Sensors. <i>Sensors</i> , 2017, 17, 1698.	2.1	29
10	Ambulatory and Laboratory Stress Detection Based on Raw Electrocardiogram Signals Using a Convolutional Neural Network. <i>Sensors</i> , 2019, 19, 4408.	2.1	27
11	Optimization of matrix metalloproteinase fluorogenic probes for osteoarthritis imaging. <i>Amino Acids</i> , 2011, 41, 1113-1122.	1.2	25
12	Determination of Optimal Heart Rate Variability Features Based on SVM-Recursive Feature Elimination for Cumulative Stress Monitoring Using ECG Sensor. <i>Sensors</i> , 2018, 18, 2387.	2.1	25
13	Ketamine Inhibits Ultrasound Stimulation-Induced Neuromodulation by Blocking Cortical Neuron Activity. <i>Ultrasound in Medicine and Biology</i> , 2018, 44, 635-646.	0.7	24
14	Biomimetic Aggrecan Reduces Cartilage Extracellular Matrix From Degradation and Lowers Catabolic Activity in Ex Vivo and In Vivo Models. <i>Macromolecular Bioscience</i> , 2013, 13, 1228-1237.	2.1	23
15	Differential heart rate variability and physiological responses associated with accumulated short- and long-term stress in rodents. <i>Physiology and Behavior</i> , 2017, 171, 21-31.	1.0	23
16	Implantation of a Matrigel-loaded agarose scaffold promotes functional regeneration of axons after spinal cord injury in rat. <i>Biochemical and Biophysical Research Communications</i> , 2018, 496, 785-791.	1.0	23
17	A Novel R Peak Detection Method for Mobile Environments. <i>IEEE Access</i> , 2018, 6, 51227-51237.	2.6	22
18	Protocatechuic acid improves functional recovery after spinal cord injury by attenuating blood-spinal cord barrier disruption and hemorrhage in rats. <i>Neurochemistry International</i> , 2019, 124, 181-192.	1.9	22

#	ARTICLE	IF	CITATIONS
19	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. <i>Sensors</i> , 2022, 22, 53.	2.1	22
20	Detection of Active Matrix Metalloproteinase-3 in Serum and Fibroblast-Like Synoviocytes of Collagen-Induced Arthritis Mice. <i>Bioconjugate Chemistry</i> , 2013, 24, 1068-1074.	1.8	20
21	Gait phase detection from sciatic nerve recordings in functional electrical stimulation systems for foot drop correction. <i>Physiological Measurement</i> , 2013, 34, 541-565.	1.2	19
22	Ankle-Angle Estimation from Blind Source Separated Afferent Activity in the Sciatic Nerve for Closed-Loop Functional Neuromuscular Stimulation System. <i>IEEE Transactions on Biomedical Engineering</i> , 2017, 64, 834-843.	2.5	17
23	Multiunit Activity-Based Real-Time Limb-State Estimation from Dorsal Root Ganglion Recordings. <i>Scientific Reports</i> , 2017, 7, 44197.	1.6	17
24	Compact Optical Nerve Cuff Electrode for Simultaneous Neural Activity Monitoring and Optogenetic Stimulation of Peripheral Nerves. <i>Scientific Reports</i> , 2018, 8, 15630.	1.6	14
25	Prediction of Antiarthritic Drug Efficacies by Monitoring Active Matrix Metalloproteinase-3 (MMP-3) Levels in Collagen-Induced Arthritic Mice Using the MMP-3 Probe. <i>Molecular Pharmaceutics</i> , 2014, 11, 1450-1458.	2.3	12
26	Electrical stimulation accelerates neurite regeneration in axotomized dorsal root ganglion neurons by increasing MMP-2 expression. <i>Biochemical and Biophysical Research Communications</i> , 2019, 508, 348-353.	1.0	12
27	Electrical stimulation inhibits cytosine arabinoside-induced neuronal death by preventing apoptosis in dorsal root ganglion neurons. <i>NeuroReport</i> , 2016, 27, 1217-1224.	0.6	11
28	Graded 6-OHDA-induced dopamine depletion in the nigrostriatal pathway evokes progressive pathological neuronal activities in the subthalamic nucleus of a hemi-parkinsonian mouse. <i>Behavioural Brain Research</i> , 2018, 344, 42-47.	1.2	11
29	A time-course study of behavioral and electrophysiological characteristics in a mouse model of different stages of Parkinson's disease using 6-hydroxydopamine. <i>Behavioural Brain Research</i> , 2015, 284, 153-157.	1.2	9
30	Compact Neural Interface Using a Single Multichannel Cuff Electrode for a Functional Neuromuscular Stimulation System. <i>Annals of Biomedical Engineering</i> , 2019, 47, 754-766.	1.3	9
31	An Unsorted Spike-Based Pattern Recognition Method for Real-Time Continuous Sensory Event Detection from Dorsal Root Ganglion Recording. <i>IEEE Transactions on Biomedical Engineering</i> , 2016, 63, 1310-1320.	2.5	7
32	An implantable wireless optogenetic stimulation system for peripheral nerve control. , 2015, 2015, 1033-6.		6
33	Fluorogenic Probe for Detecting Active Matrix Metalloproteinase-3 (MMP-3) in Plasma and Peripheral Blood Neutrophils to Indicate the Severity of Rheumatoid Arthritis. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 3039-3048.	2.6	6
34	Feedback control of electrode offset voltage during functional electrical stimulation. <i>Journal of Neuroscience Methods</i> , 2013, 218, 55-71.	1.3	5
35	Ultrasound Stimulation Increases Neurite Regeneration in Injured Dorsal Root Ganglion Neurons through Mammalian Target of Rapamycin Activation. <i>Brain Sciences</i> , 2020, 10, 409.	1.1	4
36	Hemodynamic correlation imaging of the mouse brain for application in unilateral neurodegenerative diseases. <i>Biomedical Optics Express</i> , 2019, 10, 1736.	1.5	4

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37	Linear feature projection-based real-time decoding of limb state from dorsal root ganglion recordings. <i>Journal of Computational Neuroscience</i> , 2019, 46, 77-90.	0.6	2
38	Characteristics of the neuronal firing patterns in the subthalamic nucleus with graded dopaminergic cell loss in the nigrostriatal pathway. , 2015, 2015, 2510-3.		1
39	Linear Feature Projection-Based Sensory Event Detection from the Multiunit Activity of Dorsal Root Ganglion Recordings. <i>Sensors</i> , 2018, 18, 1002.	2.1	1