Hangue Park

List of Publications by Year
in descending order

47	796	759233 12	526287 27
papers	citations	h-index	g-index

47	47	47	663
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Challenges, tasks, and opportunities in teleoperation of excavator toward human-in-the-loop construction automation. Automation in Construction, 2022, 135, 104119.	9.8	45
2	Pinching Force Changes by Modulating the Interaction Gain Over the Fingertip. IEEE Access, 2022, 10, 9744-9749.	4.2	3
3	Underground Metal Pipeline Localization Using Low-Cost Wireless Magnetic Sensors Mounted on an Excavator. IEEE Transactions on Industrial Electronics, 2022, 69, 10674-10683.	7.9	5
4	Palatal Electrotactile Display Outperforms Visual Display in Tongue Motor Learning. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2022, 30, 529-539.	4.9	5
5	MCU-less biphasic electrical stimulation circuit for miniaturized neuromodulator. Biomedical Engineering Letters, 2022, 12, 285-293.	4.1	1
6	A New Approach of Minimizing Midas Touch Problem for a Tracer-Free Tongue-Controlled Assistive Technology. IEEE Sensors Journal, 2021, 21, 743-754.	4.7	8
7	Plantar or Palmar Tactile Augmentation Improves Lateral Postural Balance With Significant Influence from Cognitive Load. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 113-122.	4.9	9
8	Recent Progress in Animal Studies of the Skin- and Bone-integrated Pylon With Deep Porosity for Bone-Anchored Limb Prosthetics With and Without Neural Interface. Military Medicine, 2021, 186, 688-695.	0.8	4
9	Fully Implantable Plantar Cutaneous Augmentation System for Rats Using Closed-loop Electrical Nerve Stimulation. IEEE Transactions on Biomedical Circuits and Systems, 2021, 15, 326-338.	4.0	11
10	A new approach of inducing proprioceptive illusion by transcutaneous electrical stimulation. Journal of NeuroEngineering and Rehabilitation, 2021, 18, 73.	4.6	13
11	Closed-Loop Plantar Cutaneous Augmentation by Electrical Nerve Stimulation Increases Ankle Plantarflexion During Treadmill Walking. IEEE Transactions on Biomedical Engineering, 2021, 68, 2798-2809.	4.2	5
12	Motorized Treadmill and Optical Recording System for Gait Analysis of Grasshoppers. Sensors, 2021, 21, 5953.	3.8	1
13	Electrical Characterization of the Tongue and the Soft Palate Using Lumped-Element Model for Intraoral Neuromodulation. IEEE Transactions on Biomedical Engineering, 2021, 68, 3151-3160.	4.2	5
14	A CNN-based method to reconstruct 3-D spine surfaces from US images in vivo. Medical Image Analysis, 2021, 74, 102221.	11.6	11
15	Contribution of Cervical Proprioception, Vision, and Vestibular Feedback on Reducing Dynamic Headâ€“Trunk Orientation Error in the Yaw Direction. Frontiers in Neuroscience, 2021, 15, 774448.	2.8	3
16	Forehead Tactile Hallucination Is Augmented by the Perceived Risk and Accompanies Increase of Forehead Tactile Sensitivity. Sensors, 2021, 21, 8246.	3.8	0
17	A Computational Internal Model to Quantify the Effect of Sensorimotor Augmentation on Motor Output. , 2020, 2020, 3751-3754.		3
18	A Multi-Channel Neural Recording System with Adaptive Electrode Selection for High-Density Neural Interface. , 2020, 2020, 4306-4309.		4

#	Article	IF	Citations
19	Risk Factors for Postural and Functional Balance Impairment in Patients with Chronic Obstructive Pulmonary Disease. Journal of Clinical Medicine, 2020, 9, 609.	2.4	13
20	Electrically-Evoked Proximity Sensation Can Enhance Fine Finger Control in Telerobotic Pinch. Scientific Reports, 2020, 10, 163.	3.3	18
21	Closed-loop Tactile Augmentation by Transcutaneous Stimulation on either the Foot Sole or the Palm to Improve Lateral Postural Balance. , 2019, , .		13
22	An Intraoral Closed-Loop Monitoring and Stimulation System for Treatment of Swallowing Problems. , 2019, , .		1
23	Vibration Induced Proprioceptive Modulation in Surface-EMG Based Control of a Robotic Arm. , 2019, , .		7
24	A Wearable Intraoral System for Speech Therapy using Real-Time Closed-Loop Artificial Sensory Feedback to the Tongue. , 2019, , .		3
25	Supernumerary Body Schema Extension to Non-Corporeal Object by Adding Artificial Tactile Feedback using Electrical Stimulation. , 2019, , .		7
26	A Real-time Electrocolonogram Monitoring and Electrical Stimulation System for Promoting Mass Peristalsis of the Colon. , 2019, , .		5
27	Cutaneous sensory feedback from paw pads affects lateral balance control during split-belt locomotion in the cat. Journal of Experimental Biology, 2019, 222, .	1.7	14
28	A Millimeter-Wave Fundamental Frequency CMOS-Based Oscillator with High Output Power. Electronics (Switzerland), 2019, 8, 1228.	3.1	2
29	A Prototype of a Neural, Powered, Transtibial Prosthesis for the Cat: Benchtop Characterization. Frontiers in Neuroscience, 2018, 12, 471.	2.8	7
30	A real-time closed-loop control system for modulating gait characteristics via electrical stimulation of peripheral nerves. , 2016, , .		11
31	Assessment of the Tongue-Drive System Using a Computer, a Smartphone, and a Powered-Wheelchair by People With Tetraplegia. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2016, 24, 68-78.	4.9	44
32	Qualitative assessment of Tongue Drive System by people with high-level spinal cord injury. Journal of Rehabilitation Research and Development, 2014, 51, 451-466.	1.6	25
33	An Arch-Shaped Intraoral Tongue Drive System with Built-in Tongue-Computer Interfacing SoC. Sensors, 2014, 14, 21565-21587.	3.8	24
34	Wireless Communication of Intraoral Devices and Its Optimal Frequency Selection. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 3205-3215.	4.6	20
35	A 13-bit noise shaping SARâ€“ADC with dual-polarity digital calibration. Analog Integrated Circuits and Signal Processing, 2013, 75, 459-465.	1.4	5
36	A Power-Efficient Wireless System With Adaptive Supply Control for Deep Brain Stimulation. IEEE Journal of Solid-State Circuits, 2013, 48, 2203-2216.	5.4	177

#	Article	IF	Citations
37	A Dual-Mode Human Computer Interface Combining Speech and Tongue Motion for People with Severe Disabilities. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2013, 21, 979-991.	4.9	36
38	The Tongue Enables Computer and Wheelchair Control for People with Spinal Cord Injury. Science Translational Medicine, 2013, 5, 213ra166.	12.4	96
39	Dual-mode tongue drive system. , 2012, , .		4
40	Tongue-operated assistive technology with access to common smartphone applications via Bluetooth link. , 2012, 2012, 4054-7.		4
41	Intraoral tongue drive system demonstration. , 2012, , .		3
42	A wireless magnetoresistive sensing system for an intra-oral tongue-computer interface. , 2012, , .		7
43	A Wireless Magnetoresistive Sensing System for an Intraoral Tongue-Computer Interface. IEEE Transactions on Biomedical Circuits and Systems, 2012, 6, 571-585.	4.0	65
44	Development and preliminary evaluation of an intraoral tongue drive system. , 2012, 2012, 1157-60.		5
45	New ergonomic headset for tongue-drive system with wireless smartphone interface. , 2011, 2011, 7344-7.		5
46	Self-Calibrated Two-Point Deltaâ€“Sigma Modulation Technique for RF Transmitters. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 1748-1757.	4.6	32
47	An Inductorless CMOS 0.1-1GHz Automatic Gain Control Circuit. , 2008, , .		7