

Sung-Min Park

List of Publications by Year in descending order

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52
papers

636
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759055

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times ranked

626
citing authors

#	ARTICLE	IF	CITATIONS
1	Circular Radio-Frequency Electrode With MEMS Temperature Sensors for Laparoscopic Renal Sympathetic Denervation. <i>IEEE Transactions on Biomedical Engineering</i> , 2022, 69, 256-264.	2.5	3
2	Do-It-Yourself Open Artificial Pancreas System in Children and Adolescents with Type 1 Diabetes Mellitus: Real-World Data. <i>Diabetes and Metabolism Journal</i> , 2022, 46, 154-159.	1.8	5
3	Enhanced Recognition of Amputated Wrist and Hand Movements by Deep Learning Method Using Multimodal Fusion of Electromyography and Electroencephalography. <i>Sensors</i> , 2022, 22, 680.	2.1	12
4	New Era of Electroceuticals: Clinically Driven Smart Implantable Electronic Devices Moving towards Precision Therapy. <i>Micromachines</i> , 2022, 13, 161.	1.4	8
5	Deep brain stimulation of the anterior nuclei of the thalamus can alleviate seizure severity and induce hippocampal GABAergic neuronal changes in a pilocarpine-induced epileptic mouse brain. <i>Cerebral Cortex</i> , 2022, 32, 5530-5543.	1.6	3
6	Modularized Electrosurgical System With a Hybrid CPU-FPGA Chip for Real-Time Thermal Lesion Approximation. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022, 71, 1-10.	2.4	0
7	Spatiotemporal Measurement of Arterial Pulse Waves Enabled by Wearable Active-Matrix Pressure Sensor Arrays. <i>ACS Nano</i> , 2022, 16, 368-377.	7.3	63
8	Deep Learning Approach for Detecting Work-Related Stress Using Multimodal Signals. <i>IEEE Sensors Journal</i> , 2022, 22, 11892-11902.	2.4	9
9	A Scalable Laser-Centric Fabrication of an Epidermal Cardiopulmonary Patch. <i>Advanced Materials Technologies</i> , 2022, 7, .	3.0	6
10	Multitask Siamese Network for Remote Photoplethysmography and Respiration Estimation. <i>Sensors</i> , 2022, 22, 5101.	2.1	5
11	Toward a Fully Automated Artificial Pancreas System Using a Bioinspired Reinforcement Learning Design: In Silico Validation. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021, 25, 536-546.	3.9	38
12	An Efficient Noninvasive Neuromodulation Modality for Overactive Bladder Using Time Interfering Current Method. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 214-224.	2.5	7
13	Electrogastrogram: Demonstrating Feasibility in Mental Stress Assessment Using Sensor Fusion. <i>IEEE Sensors Journal</i> , 2021, 21, 14503-14514.	2.4	6
14	Lead-Free Piezoelectric Composite With Lithium Niobate and Barium Titanate Fabricated by Interdigital Pair Bonding Technique. <i>IEEE Access</i> , 2021, 9, 85894-85902.	2.6	2
15	Laparoscopic Ablation System for Complete Circumferential Renal Sympathetic Denervation. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 3217-3227.	2.5	5
16	Highly Sensitive Nondestructive Tunneling Magneto Resistive Imaging: Simulation and Experimental Validation. <i>IEEE Access</i> , 2021, 9, 85326-85333.	2.6	0
17	Thermal Ablation and High-Resolution Imaging Using a Back-to-Back (BTB) Dual-Mode Ultrasonic Transducer: In Vivo Results. <i>Sensors</i> , 2021, 21, 1580.	2.1	7
18	Wireless-Powered VOCs Sensor Based on Energy-Harvesting Metamaterial. <i>Advanced Electronic Materials</i> , 2021, 7, 2001240.	2.6	3

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19	Hydrogel Surface-Modified Polyurethane Copolymer Film with Water Permeation Resistance and Biocompatibility for Implantable Biomedical Devices. <i>Micromachines</i> , 2021, 12, 447.	1.4	5
20	Unobtrusive, Cuffless Blood Pressure Monitoring Using a Soft Polymer Sensor Array With Flexible Hybrid Electronics. <i>IEEE Sensors Journal</i> , 2021, 21, 10132-10142.	2.4	17
21	Parameterization of physical properties of layered body structure into equivalent circuit model. <i>BMC Biomedical Engineering</i> , 2021, 3, 9.	1.7	2
22	Review of 3D-printing technologies for wearable and implantable bio-integrated sensors. <i>Essays in Biochemistry</i> , 2021, 65, 491-502.	2.1	11
23	A personalized blood glucose level prediction model with a fine-tuning strategy: A proof-of-concept study. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 211, 106424.	2.6	11
24	Acoustic Power Transfer Using Self-Focused Transducers for Miniaturized Implantable Neurostimulators. <i>IEEE Access</i> , 2021, 9, 153850-153862.	2.6	8
25	Effect of duty cycles of tumor-treating fields on glioblastoma cells and normal brain organoids. <i>International Journal of Oncology</i> , 2021, 60, .	1.4	4
26	Antiviral activity and safety of remdesivir against SARS-CoV-2 infection in human pluripotent stem cell-derived cardiomyocytes. <i>Antiviral Research</i> , 2020, 184, 104955.	1.9	62
27	Characterization of a magneto-active membrane actuator comprising hard magnetic particles with varying crosslinking degrees. <i>Materials and Design</i> , 2020, 195, 108921.	3.3	17
28	Development of a nitinol-actuated surgical instrument for laparoscopic renal denervation: feasibility test in a swine survival model. <i>International Journal of Hyperthermia</i> , 2020, 37, 573-584.	1.1	2
29	Quantitative analysis of renal arterial variations affecting the eligibility of catheter-based renal denervation using multi-detector computed tomography angiography. <i>Scientific Reports</i> , 2020, 10, 19720.	1.6	7
30	Ultrasound-modulated optical glucose sensing using a 1645-nm laser. <i>Scientific Reports</i> , 2020, 10, 13361.	1.6	15
31	Low-power, deformable, dynamic multicolor electrochromic skin. <i>Nano Energy</i> , 2020, 78, 105199.	8.2	50
32	A Flexible Patch-Type Strain Sensor Based on Polyaniline for Continuous Monitoring of Pulse Waves. <i>IEEE Access</i> , 2020, 8, 152105-152115.	2.6	27
33	The long-lasting post-stimulation inhibitory effects of bladder activity induced by posterior tibial nerve stimulation in unanesthetized rats. <i>Scientific Reports</i> , 2020, 10, 19897.	1.6	6
34	In Vitro Study of Neurochemical Changes Following Low-Intensity Magnetic Stimulation. <i>IEEE Access</i> , 2020, 8, 194363-194372.	2.6	4
35	Long-Term Non Anesthetic Preclinical Study Available Extra-Cranial Brain Activator (ECBA) System for the Future Minimally Invasive Human Neuro Modulation. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2020, 14, 1393-1406.	2.7	3
36	Effectiveness of electrical stimulation on nerve regeneration after crush injury: Comparison between invasive and non-invasive stimulation. <i>PLoS ONE</i> , 2020, 15, e0233531.	1.1	25

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37	Design and Implementation of a Wireless Charging-Based Cardiac Monitoring System Focused on Temperature Reduction and Robust Power Transfer Efficiency. <i>Energies</i> , 2020, 13, 1008.	1.6	18
38	A Wireless Power Transfer Based Implantable ECG Monitoring Device. <i>Energies</i> , 2020, 13, 905.	1.6	24
39	Analyzing the advantages of subcutaneous over transcutaneous electrical stimulation for activating brainwaves. <i>Scientific Reports</i> , 2020, 10, 7360.	1.6	7
40	Quantitative Analysis of EEG Power Spectrum and EMG Median Power Frequency Changes after Continuous Passive Motion Mirror Therapy System. <i>Sensors</i> , 2020, 20, 2354.	2.1	11
41	Laparoscopic Renal Denervation System for Treating Resistant Hypertension: Overcoming Limitations of Catheter-Based Approaches. <i>IEEE Transactions on Biomedical Engineering</i> , 2020, 67, 3425-3437.	2.5	8
42	Response: An Electronic Health Record-Integrated Computerized Intravenous Insulin Infusion Protocol: Clinical Outcomes and in Silico Adjustment (<i>Diabetes Metab J</i> 2020;44:56â€“66). <i>Diabetes and Metabolism Journal</i> , 2020, 44, 358.	1.8	0
43	Animal model evaluation of a novel renal denervation system for future laparoscopic treatment of resistant hypertension. <i>Investigative and Clinical Urology</i> , 2020, 61, 107.	1.0	2
44	An Electronic Health Record-Integrated Computerized Intravenous Insulin Infusion Protocol: Clinical Outcomes and in Silico Adjustment. <i>Diabetes and Metabolism Journal</i> , 2020, 44, 56.	1.8	2
45	Lead-free Piezoelectric Composite with Configurable Material Properties by Interdigital Pair-bonding. , 2020, , .		0
46	Machine learning-based analysis of adolescent gambling factors. <i>Journal of Behavioral Addictions</i> , 2020, 9, 734-743.	1.9	4
47	Deep ECG-Respiration Network (DeepER Net) for Recognizing Mental Stress. <i>Sensors</i> , 2019, 19, 3021.	2.1	46
48	A machine-learning approach to predict postprandial hypoglycemia. <i>BMC Medical Informatics and Decision Making</i> , 2019, 19, 210.	1.5	43
49	Validation of Cuffless Blood Pressure Monitoring Using Wearable Device. , 2018, , .		2
50	Developing a Computational Model of Renal Nerves and Surgical System for Laparoscopic Renal Denervation. , 2018, 2018, 4524-4527.		0
51	Design and simulation of novel laparoscopic renal denervation system: a feasibility study. <i>International Journal of Hyperthermia</i> , 2018, 35, 9-18.	1.1	11
52	Understanding Patients' Needs in Diabetes for Mobile Health – A Case Study. , 2016, , .		0