Albert Kim

List of Publications by Year
in descending order

35 papers	441 citations	840119 11 h-index	752256 20 g-index
35 all docs	35 docs citations	35 times ranked	677 citing authors

#	Article	IF	Citations
1	Performance Evaluation of Magnetic Resonance Coupling Method for Intra-Body Network (IBNet). IEEE Transactions on Biomedical Engineering, 2022, 69, 1901-1908.	2.5	4
2	Characterization of Magnetic Communication Through Human Body. , 2022, , .		1
3	Tissue Viscoelasticity Quantification Using Smartphone Tactile Imaging Probe With an Indenter and Viscoelastic Pitting Recovery Model. IEEE Sensors Journal, 2022, 22, 15365-15372.	2.4	0
4	Smart Tooth System for In-Situ Wireless PH Monitoring. , 2021, , .		1
5	OMNIDIRECTIONAL POLYHEDRAL ULTRASOUND TRANSDUCER FOR POWERING IMPLANTABLE MICRODEVICES. , 2021, , .		0
6	A bio-inspired optical directional microphone with cavity-coupled diaphragms. JASA Express Letters, 2021, 1, 072802.	0.5	1
7	Modeling, characterization, and fabrication of bell-tip microneedle array by diffraction and self-aligned lens effects. Applied Physics Letters, 2021, 119, .	1.5	7
8	Bimodal Nanocomposite Platform with Antibiofilm and Self-Powering Functionalities for Biomedical Applications. ACS Applied Materials & Interfaces, 2021, 13, 40379-40391.	4.0	17
9	Implantable Cisplatin Synthesis Microdevice for Regional Chemotherapy. Advanced Healthcare Materials, 2021, 10, e2001582.	3.9	13
10	In Vitro Study on Smart Stent for Autonomous Post-Endovascular Aneurysm Repair Surveillance. IEEE Access, 2020, 8, 96340-96346.	2.6	10
11	Ultrasonic Hydrogel Biochemical Sensor System. , 2020, 2020, 4093-4096.		1
12	A Hydrogel-Based Ultrasonic Backscattering Wireless Biochemical Sensing. Frontiers in Bioengineering and Biotechnology, 2020, 8, 596370.	2.0	6
13	A Machine Learning Enabled Wireless Intracranial Brain Deformation Sensing System. IEEE Transactions on Biomedical Engineering, 2020, 67, 3521-3530.	2.5	3
14	Human Oral Motionâ€Powered Smart Dental Implant (SDI) for In Situ Ambulatory Photoâ€biomodulation Therapy. Advanced Healthcare Materials, 2020, 9, e2000658.	3.9	21
15	An Ultrasonically Powered Implantable Microprobe for Electrolytic Ablation. Scientific Reports, 2020, 10, 1510.	1.6	12
16	Biodegradable Piezoelectric Transducer for Powering Transient Implants. IEEE Access, 2020, 8, 68219-68225.	2.6	18
17	A Comprehensive Analysis of Nearâ€Contact Photobiomodulation Therapy in the Hostâ€“Bacteria Interaction Model Using 3Dâ€Printed Modular LED Platform. Advanced Biology, 2020, 4, e1900227.	3.0	4
18	Ultrasound-Mediated Chemical Sensing Using Titanium Dioxide (TiO2) Nanoparticles-Embedded Hydrogel with Possibilities of Performance Enhancement Using Machine Learning. , 2020, , .		0

#	Article	IF	Citations
19	Real-Time Tracking of a 3D-Printed Smart Capsule Using on-Board Near-Infrared Led Array. , 2019, , .		3
20	Therapeutic and Side Effects Modeling of Electrolytic Cancer Ablation Therapy Using Organ-on-a-Chip. , 2019, , .		0
21	An Implantable Ultrasonically-Powered Micro-Light-Source (ÂµLight) for Photodynamic Therapy. Scientific Reports, 2019, 9, 1395.	1.6	59
22	Wideband Ultrasonic Transducer Using Modified Space-Filling Curves. , 2019, , .		1
23	A Wireless Chemical Sensing Scheme using Ultrasonic Imaging of Silica-Particle-Embedded Hydrogels (Silicagel). Sensors and Actuators B: Chemical, 2018, 259, 552-559.	4.0	15
24	An ultrasonically controlled switching system for power management in implantable devices. Biomedical Microdevices, 2018, 20, 42.	1.4	1
25	Yeast Metabolic Response as an Indicator of Radiation Damage in Biological Tissue. Advanced Biology, 2018, 2, 1800126.	3.0	4
26	An Universal packaging technique for low-drift implantable pressure sensors. Biomedical Microdevices, 2016, 18, 32.	1.4	13
27	A Wireless Intracranial Brain Deformation Sensing System for Blast-Induced Traumatic Brain Injury. Scientific Reports, 2015, 5, 16959.	1.6	10
28	Batch-fabricated hydrogel/polymeric-magnet bilayer for wireless chemical sensing. , 2015, , .		3
29	An ultrasonically controlled power management system for implantable biomedical devices. , 2015, , .		5
30	New and Emerging Energy Sources for Implantable Wireless Microdevices. IEEE Access, 2015, 3, 89-98.	2.6	64
31	Omnidirectional Ultrasonic Powering for Millimeter-Scale Implantable Devices. IEEE Transactions on Biomedical Engineering, 2015, 62, 2717-2723.	2.5	68
32	A wearable smartphone-enabled camera-based system for gait assessment. Gait and Posture, 2015, 42, 138-144.	0.6	35
33	UP-link: An ultra-low power implantable wireless system for long-term ambulatory urodynamics. , 2014, , .		2
34	An Implantable Pressure Sensing System With Electromechanical Interrogation Scheme. IEEE Transactions on Biomedical Engineering, 2014, 61, 2209-2217.	2.5	37
35	A wireless pressure sensor based on surface trapped ferrofluid plug. , 2013, , .		2