

Albert Kim

List of Publications by Year in descending order

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35
papers

441
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840119

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35
all docs

35
docs citations

35
times ranked

677
citing authors

#	ARTICLE	IF	CITATIONS
1	Omnidirectional Ultrasonic Powering for Millimeter-Scale Implantable Devices. IEEE Transactions on Biomedical Engineering, 2015, 62, 2717-2723.	2.5	68
2	New and Emerging Energy Sources for Implantable Wireless Microdevices. IEEE Access, 2015, 3, 89-98.	2.6	64
3	An Implantable Ultrasonically-Powered Micro-Light-Source (ÅµLight) for Photodynamic Therapy. Scientific Reports, 2019, 9, 1395.	1.6	59
4	An Implantable Pressure Sensing System With Electromechanical Interrogation Scheme. IEEE Transactions on Biomedical Engineering, 2014, 61, 2209-2217.	2.5	37
5	A wearable smartphone-enabled camera-based system for gait assessment. Gait and Posture, 2015, 42, 138-144.	0.6	35
6	Human Oral Motionâ€Powered Smart Dental Implant (SDI) for In Situ Ambulatory Photoâ€biomodulation Therapy. Advanced Healthcare Materials, 2020, 9, e2000658.	3.9	21
7	Biodegradable Piezoelectric Transducer for Powering Transient Implants. IEEE Access, 2020, 8, 68219-68225.	2.6	18
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	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
10	An Universal packaging technique for low-drift implantable pressure sensors. Biomedical Microdevices, 2016, 18, 32.	1.4	13
11	Implantable Cisplatin Synthesis Microdevice for Regional Chemotherapy. Advanced Healthcare Materials, 2021, 10, e2001582.	3.9	13
12	An Ultrasonically Powered Implantable Microprobe for Electrolytic Ablation. Scientific Reports, 2020, 10, 1510.	1.6	12
13	A Wireless Intracranial Brain Deformation Sensing System for Blast-Induced Traumatic Brain Injury. Scientific Reports, 2015, 5, 16959.	1.6	10
14	In Vitro Study on Smart Stent for Autonomous Post-Endovascular Aneurysm Repair Surveillance. IEEE Access, 2020, 8, 96340-96346.	2.6	10
15	Modeling, characterization, and fabrication of bell-tip microneedle array by diffraction and self-aligned lens effects. Applied Physics Letters, 2021, 119, .	1.5	7
16	A Hydrogel-Based Ultrasonic Backscattering Wireless Biochemical Sensing. Frontiers in Bioengineering and Biotechnology, 2020, 8, 596370.	2.0	6
17	An ultrasonically controlled power management system for implantable biomedical devices. , 2015, , .		5
18	Yeast Metabolic Response as an Indicator of Radiation Damage in Biological Tissue. Advanced Biology, 2018, 2, 1800126.	3.0	4

#	ARTICLE	IF	CITATIONS
19	A Comprehensive Analysis of Near-Contact Photobiomodulation Therapy in the Host-Bacteria Interaction Model Using 3D-Printed Modular LED Platform. <i>Advanced Biology</i> , 2020, 4, e1900227.	3.0	4
20	Performance Evaluation of Magnetic Resonance Coupling Method for Intra-Body Network (IBNet). <i>IEEE Transactions on Biomedical Engineering</i> , 2022, 69, 1901-1908.	2.5	4
21	Batch-fabricated hydrogel/polymeric-magnet bilayer for wireless chemical sensing. , 2015, , .		3
22	Real-Time Tracking of a 3D-Printed Smart Capsule Using on-Board Near-Infrared Led Array. , 2019, , .		3
23	A Machine Learning Enabled Wireless Intracranial Brain Deformation Sensing System. <i>IEEE Transactions on Biomedical Engineering</i> , 2020, 67, 3521-3530.	2.5	3
24	A wireless pressure sensor based on surface trapped ferrofluid plug. , 2013, , .		2
25	UP-link: An ultra-low power implantable wireless system for long-term ambulatory urodynamics. , 2014, , .		2
26	An ultrasonically controlled switching system for power management in implantable devices. <i>Biomedical Microdevices</i> , 2018, 20, 42.	1.4	1
27	Wideband Ultrasonic Transducer Using Modified Space-Filling Curves. , 2019, , .		1
28	Ultrasonic Hydrogel Biochemical Sensor System. , 2020, 2020, 4093-4096.		1
29	Smart Tooth System for In-Situ Wireless PH Monitoring. , 2021, , .		1
30	A bio-inspired optical directional microphone with cavity-coupled diaphragms. <i>JASA Express Letters</i> , 2021, 1, 072802.	0.5	1
31	Characterization of Magnetic Communication Through Human Body. , 2022, , .		1
32	Therapeutic and Side Effects Modeling of Electrolytic Cancer Ablation Therapy Using Organ-on-a-Chip. , 2019, , .		0
33	OMNIDIRECTIONAL POLYHEDRAL ULTRASOUND TRANSDUCER FOR POWERING IMPLANTABLE MICRODEVICES. , 2021, , .		0
34	Ultrasound-Mediated Chemical Sensing Using Titanium Dioxide (TiO ₂) Nanoparticles-Embedded Hydrogel with Possibilities of Performance Enhancement Using Machine Learning. , 2020, , .		0
35	Tissue Viscoelasticity Quantification Using Smartphone Tactile Imaging Probe With an Indenter and Viscoelastic Pitting Recovery Model. <i>IEEE Sensors Journal</i> , 2022, 22, 15365-15372.	2.4	0