Hung Cao

List of Publications by Year in descending order

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361296 265120 2,011 42 91 20 h-index citations g-index papers 98 98 98 2844 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Power Approaches for Implantable Medical Devices. Sensors, 2015, 15, 28889-28914.	2.1	312
2	A flexible pH sensor based on the iridium oxide sensing film. Sensors and Actuators A: Physical, 2011, 169, 1-11.	2.0	277
3	Cuff-Less and Continuous Blood Pressure Monitoring: A Methodological Review. Technologies, 2017, 5, 21.	3.0	171
4	An Implantable, Batteryless, and Wireless Capsule With Integrated Impedance and pH Sensors for Gastroesophageal Reflux Monitoring. IEEE Transactions on Biomedical Engineering, 2012, 59, 3131-3139.	2.5	110
5	An Integrated î¼LED Optrode for Optogenetic Stimulation and Electrical Recording. IEEE Transactions on Biomedical Engineering, 2013, 60, 225-229.	2.5	97
6	Cardiac tissue engineering: state-of-the-art methods and outlook. Journal of Biological Engineering, 2019, 13, 57.	2.0	89
7	Shear Stress–Activated Wnt-Angiopoietin-2 Signaling Recapitulates Vascular Repair in Zebrafish Embryos. Arteriosclerosis, Thrombosis, and Vascular Biology, 2014, 34, 2268-2275.	1.1	58
8	Moving Domain Computational Fluid Dynamics to Interface with an Embryonic Model of Cardiac Morphogenesis. PLoS ONE, 2013, 8, e72924.	1.1	51
9	Sol-Gel Iridium Oxide-Based pH Sensor Array on Flexible Polyimide Substrate. IEEE Sensors Journal, 2013, 13, 3857-3864.	2.4	43
10	Wearable multi-channel microelectrode membranes for elucidating electrophysiological phenotypes of injured myocardium. Integrative Biology (United Kingdom), 2014, 6, 789.	0.6	43
11	Development and Characterization of a Novel Interdigitated Capacitive Strain Sensor for Structural Health Monitoring. IEEE Sensors Journal, 2015, 15, 6542-6548.	2.4	43
12	Fabrication and characterization of biomimetic multichanneled crosslinkedâ€urethaneâ€doped polyester tissue engineered nerve guides. Journal of Biomedical Materials Research - Part A, 2014, 102, 2793-2804.	2.1	38
13	Plant Metabolite Databases: From Herbal Medicines to Modern Drug Discovery. Journal of Chemical Information and Modeling, 2020, 60, 1101-1110.	2.5	37
14	Hemodynamics and Ventricular Function in a Zebrafish Model of Injury and Repair. Zebrafish, $2014,11,447-454$.	0.5	31
15	An Integrated Flexible Implantable Micro-Probe for Sensing Neurotransmitters. IEEE Sensors Journal, 2012, 12, 1618-1624.	2.4	28
16	Sol-Gel Deposition of Iridium Oxide for Biomedical Micro-Devices. Sensors, 2015, 15, 4212-4228.	2.1	28
17	Continuous Non-Invasive Blood Pressure Monitoring: A Methodological Review on Measurement Techniques. IEEE Access, 2020, 8, 212478-212498.	2.6	28
18	Design and development of continuous cuff-less blood pressure monitoring devices., 2016,,.		27

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19	Batteryless implantable dual-sensor capsule for esophageal reflux monitoring. Gastrointestinal Endoscopy, 2013, 77, 649-653.	0.5	26
20	Stretchable electrochemical impedance sensors for intravascular detection of lipid-rich lesions in New Zealand White rabbits. Biosensors and Bioelectronics, 2014, 54, 610-616.	5. 3	26
21	Evaluation of commercial metalâ€oxide based NO2sensors. Sensor Review, 2007, 27, 121-131.	1.0	25
22	Real-Time Monitoring and Analysis of Zebrafish Electrocardiogram with Anomaly Detection. Sensors, 2018, 18, 61.	2.1	24
23	An Efficient and Robust Deep Learning Method with 1-D Octave Convolution to Extract Fetal Electrocardiogram. Sensors, 2020, 20, 3757.	2.1	23
24	Phenotyping an adult zebrafish lamp2 cardiomyopathy model identifies mTOR inhibition as a candidate therapy. Journal of Molecular and Cellular Cardiology, 2019, 133, 199-208.	0.9	22
25	Aging-associated sinus arrest and sick sinus syndrome in adult zebrafish. PLoS ONE, 2020, 15, e0232457.	1.1	21
26	Investigation of Methods to Extract Fetal Electrocardiogram from the Mother's Abdominal Signal in Practical Scenarios. Technologies, 2020, 8, 33.	3.0	21
27	Flexible Iridium Oxide Based pH Sensor Integrated With Inductively Coupled Wireless Transmission System for Wearable Applications. IEEE Sensors Journal, 2020, 20, 5130-5138.	2.4	21
28	Investigation of Machine Learning Approaches for Traumatic Brain Injury Classification via EEG Assessment in Mice. Sensors, 2020, 20, 2027.	2.1	20
29	Electrical and Mechanical Strategies to Enable Cardiac Repair and Regeneration. IEEE Reviews in Biomedical Engineering, 2015, 8, 114-124.	13.1	19
30	A wireless bladder volume monitoring system using a flexible capacitance-based sensor. , 2013, , .		17
31	Modeling and process design optimization of a piezoelectric micromachined ultrasonic transducers (PMUT) using lumped elements parameters. Microsystem Technologies, 2017, 23, 4659-4669.	1.2	17
32	A Raspberry Pi-Based Traumatic Brain Injury Detection System for Single-Channel Electroencephalogram. Sensors, 2021, 21, 2779.	2.1	12
33	Deep learning-based framework for cardiac function assessment in embryonic zebrafish from heart beating videos. Computers in Biology and Medicine, 2021, 135, 104565.	3.9	12
34	A wireless strain sensor system for bladder volume monitoring. , 2011, , .		11
35	Acquisition, Processing and Analysis of Electrocardiogram in Awake Zebrafish. IEEE Sensors Journal, 2019, 19, 4283-4289.	2.4	10
36	Unobtrusive acquisition and extraction of fetal and maternal ECG in the home setting. , 2017, , .		9

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37	A novel wireless ECG system for prolonged monitoring of multiple zebrafish for heart disease and drug screening studies. Biosensors and Bioelectronics, 2022, 197, 113808.	5.3	9
38	A Low-Cost, 3D-Printed Biosensor for Rapid Detection of Escherichia coli. Sensors, 2022, 22, 2382.	2.1	9
39	Unobtrusive Continuous Monitoring of Fetal Cardiac Electrophysiology in the Home Setting. , 2018, , .		8
40	Wireless Passive Monitoring of Electrocardiogram in Firefighters. , 2018, , .		8
41	Automatic Segmentation and Cardiac Mechanics Analysis of Evolving Zebrafish Using Deep Learning. Frontiers in Cardiovascular Medicine, 2021, 8, 675291.	1.1	8
42	Fetal Electrocardiogram Extraction from the Mother's Abdominal Signal Using the Ensemble Kalman Filter. Sensors, 2022, 22, 2788.	2.1	8
43	An Infant Monitoring System Using CO/sub 2/ Sensors. , 2007, , .		7
44	Home-based mobile fetal/maternal electrocardiogram acquisition and extraction with cloud assistance. , 2019, 2019, .		7
45	Correcting anisotropic intensity in light sheet images using dehazing and image morphology. APL Bioengineering, 2020, 4, 036103.	3.3	7
46	Flexible Sputter-Deposited Carbon Strain Sensor. IEEE Sensors Journal, 2013, 13, 444-445.	2.4	6
47	Development of a Home-based Fetal Electrocardiogram (ECG) Monitoring System., 2021, 2021, 7116-7119.		6
48	Development of a novel miniaturized LTCC-based wireless pH sensing system. , 2016, , .		5
49	Characterization of flexible pH micro-sensors based on electrodeposited IrOx thin film. , 2017, , .		5
50	Wireless Iridium Oxide-Based pH Sensing Systems. , 2018, , .		5
51	Towards Multiplexed and Multimodal Biosensor Platforms in Real-Time Monitoring of Metabolic Disorders. Sensors, 2022, 22, 5200.	2.1	5
52	Nanowire Modification to Enhance the Performance of Neurotransmitter Sensors. Journal of Nanotechnology in Engineering and Medicine, 2010, 1 , .	0.8	4
53	Remote detection of gastroesophageal reflux using an impedance and pH sensing transponder. , 2012, , .		4
54	Dry-contact microelectrode membranes for wireless detection of electrical phenotypes in neonatal mouse hearts. Biomedical Microdevices, 2015, 17, 40.	1.4	4

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55	Continuous Electrocardiogram Monitoring in Zebrafish with Prolonged Mild Anesthesia. , 2020, 2020, 2610-2613.		4
56	Classification of Electroencephalogram in a Mouse Model of Traumatic Brain Injury Using Machine Learning Approaches., 2020, 2020, 3335-3338.		4
57	A non-invasive and remote infant monitoring system using CO <inf>2</inf> sensors. , 2007, , .		3
58	Wireless strain sensor based on amorphous carbon for human-motion detection., 2013,,.		3
59	A wearable percutaneous implant for long term zebrafish epicardial ECG recording. , 2013, , .		3
60	Sample Tube pH Monitoring via Passive Powering and Communication., 2019,,.		3
61	Categorizing Sleep in Older Adults with Wireless Activity Monitors Using LSTM Neural Networks. , 2019, 2019, 3368-3372.		3
62	In vivo Evaluation of Non-viral NICD Plasmid-Loaded PLGA Nanoparticles in Developing Zebrafish to Improve Cardiac Functions. Frontiers in Physiology, 2022, 13, 819767.	1.3	3
63	Wireless implants for in vivo diagnosis and closed-loop treatment. , 2011, , .		2
64	Development of a laser micro-machined interdigitated capacitive strain sensor for structural health monitoring applications. , 2014 , , .		2
65	Novel apparatus for simultaneous monitoring of electrocardiogram in awake zebrafish. , 2017, , .		2
66	Wireless power transfer for ECG monitoring in freely-swimming zebrafish. , 2017, , .		2
67	A Fluidics-Based Biosensor to Detect and Characterize Inhibition Patterns of Organophosphate to Acetylcholinesterase in Food Materials. Micromachines, 2021, 12, 397.	1.4	2
68	Electrocardiogram: Acquisition and Analysis for Biological Investigations and Health Monitoring. , 2020, , $117-142$.		2
69	Investigation of the Self-Calibration Function for IrO _x -based pH Sensors., 2020,,.		2
70	Microelectrode array membranes to simultaneously assess cardiac and neurological signals of xenopus laevis under chemical exposures and environmental changes. Biosensors and Bioelectronics, 2022, 210, 114292.	5.3	2
71	An integrated flexible implantable L-glutamate sensor. , 2010, , .		1
72	Fabrication of pH-sensing iridium oxide nanotubes on patterned electrodes using anodic aluminum oxide nanotemplate. , 2013 , , .		1

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73	Miniature neurotransmitter sensors featured with iridium oxide nanorods., 2014,,.		1
74	Passive continuous electrocardiogram monitoring of firemen using non-contact electrodes., 2017,,.		1
75	A novel design to power the micro-ECG sensor implanted in adult zebrafish. , 2017, , .		1
76	Characterization of Passive Wireless Electrocardiogram Acquisition in Adult Zebrafish. , 2018, , .		1
77	Investigation of Machine Learning and Deep Learning Approaches for Detection of Mild Traumatic Brain Injury from Human Sleep Electroencephalogram. , 2021, 2021, 6134-6137.		1
78	A wearable system for highly selective L-glutamate neurotransmitter sensing. , 2015, , .		0
79	Selective orthogonal predistortion for power amplifiers. , 2015, , .		0
80	A wireless ECG recording system for small animal models of heart regeneration. , 2015, , .		0
81	Intravascular sensors to assess unstable plaques and their compositions: a review. Progress in Biomedical Engineering, 2020, 2, 012001.	2.8	0
82	Design of a Wireless Power and Data Transfer System for pH Sensing inside a Small Tube. , 2021, , .		0
83	Facile Fabrication of Highly Sensitive Pt-black Electrochemical Sensor for L-Glutamate Detection. , 2021, , .		O
84	Study of Zebrafish Cardiac Morphogenesis Using Computational Fluid Dynamics. FASEB Journal, 2013, 27, 1187.8.	0.2	0
85	Testing MD-Link, a Low-Cost Mobile Electrocardiography Monitoring Device, in Patients With Irregular Heartbeat: Protocol for a Cross-Sectional Study. JMIR Research Protocols, 2019, 8, e2.	0.5	O
86	Wirelessly Powered Medical Implants via Radio Frequency., 2020,, 101-116.		0
87	Fabrication of Highly Sensitive Pt-black Electrochemical Sensors for GABA Detection. , 2021, 2021, 7148-7151.		O
88	Aging-associated sinus arrest and sick sinus syndrome in adult zebrafish. , 2020, 15, e0232457.		0
89	Aging-associated sinus arrest and sick sinus syndrome in adult zebrafish. , 2020, 15, e0232457.		0
90	Aging-associated sinus arrest and sick sinus syndrome in adult zebrafish. , 2020, 15, e0232457.		0

ARTICLE IF CITATIONS
91 Aging-associated sinus arrest and sick sinus syndrome in adult zebrafish., 2020, 15, e0232457. 0