

# Hung Cao

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

72  
papers

1,266  
citations

17  
h-index

34  
g-index

98  
ext. papers

1,659  
ext. citations

4  
avg, IF

4.5  
L-index

#	Paper	IF	Citations
72	A flexible pH sensor based on the iridium oxide sensing film. <i>Sensors and Actuators A: Physical</i> , <b>2011</b> , 169, 1-11	3.9	212
71	Power Approaches for Implantable Medical Devices. <i>Sensors</i> , <b>2015</b> , 15, 28889-914	3.8	199
70	Cuff-Less and Continuous Blood Pressure Monitoring: A Methodological Review. <i>Technologies</i> , <b>2017</b> , 5, 21	2.4	109
69	An integrated $\text{Ca}^{2+}$ optrode for optogenetic stimulation and electrical recording. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2013</b> , 60, 225-9	5	82
68	An implantable, batteryless, and wireless capsule with integrated impedance and pH sensors for gastroesophageal reflux monitoring. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2012</b> , 59, 3131-9	5	75
67	Cardiac tissue engineering: state-of-the-art methods and outlook. <i>Journal of Biological Engineering</i> , <b>2019</b> , 13, 57	6.3	51
66	Shear stress-activated Wnt-angiopoietin-2 signaling recapitulates vascular repair in zebrafish embryos. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2014</b> , 34, 2268-75	9.4	45
65	Moving domain computational fluid dynamics to interface with an embryonic model of cardiac morphogenesis. <i>PLoS ONE</i> , <b>2013</b> , 8, e72924	3.7	42
64	Sol-Gel Iridium Oxide-Based pH Sensor Array on Flexible Polyimide Substrate. <i>IEEE Sensors Journal</i> , <b>2013</b> , 13, 3857-3864	4	33
63	Fabrication and characterization of biomimetic multichanneled crosslinked-urethane-doped polyester tissue engineered nerve guides. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2014</b> , 102, 2793-804	5.4	32
62	Wearable multi-channel microelectrode membranes for elucidating electrophysiological phenotypes of injured myocardium. <i>Integrative Biology (United Kingdom)</i> , <b>2014</b> , 6, 789-95	3.7	28
61	Hemodynamics and ventricular function in a zebrafish model of injury and repair. <i>Zebrafish</i> , <b>2014</b> , 11, 447-54	2	25
60	Development and Characterization of a Novel Interdigitated Capacitive Strain Sensor for Structural Health Monitoring. <i>IEEE Sensors Journal</i> , <b>2015</b> , 15, 6542-6548	4	22
59	Batteryless implantable dual-sensor capsule for esophageal reflux monitoring. <i>Gastrointestinal Endoscopy</i> , <b>2013</b> , 77, 649-53	5.2	21
58	Evaluation of commercial metal-oxide based NO <sub>2</sub> sensors. <i>Sensor Review</i> , <b>2007</b> , 27, 121-131	1.4	20
57	<b>2016</b> ,		19
56	Stretchable electrochemical impedance sensors for intravascular detection of lipid-rich lesions in New Zealand White rabbits. <i>Biosensors and Bioelectronics</i> , <b>2014</b> , 54, 610-6	11.8	18

55	. <i>IEEE Sensors Journal</i> , <b>2012</b> , 12, 1618-1624	4	17
54	Real-Time Monitoring and Analysis of Zebrafish Electrocardiogram with Anomaly Detection. <i>Sensors</i> , <b>2017</b> , 18,	3.8	16
53	Sol-gel deposition of iridium oxide for biomedical micro-devices. <i>Sensors</i> , <b>2015</b> , 15, 4212-28	3.8	14
52	A wireless bladder volume monitoring system using a flexible capacitance-based sensor <b>2013</b> ,		14
51	Electrical and Mechanical Strategies to Enable Cardiac Repair and Regeneration. <i>IEEE Reviews in Biomedical Engineering</i> , <b>2015</b> , 8, 114-24	6.4	13
50	Phenotyping an adult zebrafish lamp2 cardiomyopathy model identifies mTOR inhibition as a candidate therapy. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2019</b> , 133, 199-208	5.8	12
49	Plant Metabolite Databases: From Herbal Medicines to Modern Drug Discovery. <i>Journal of Chemical Information and Modeling</i> , <b>2020</b> , 60, 1101-1110	6.1	12
48	. <i>IEEE Sensors Journal</i> , <b>2020</b> , 20, 5130-5138	4	11
47	Modeling and process design optimization of a piezoelectric micromachined ultrasonic transducers (PMUT) using lumped elements parameters. <i>Microsystem Technologies</i> , <b>2017</b> , 23, 4659-4669	1.7	9
46	Aging-associated sinus arrest and sick sinus syndrome in adult zebrafish. <i>PLoS ONE</i> , <b>2020</b> , 15, e0232457	3.7	9
45	Continuous Non-Invasive Blood Pressure Monitoring: A Methodological Review on Measurement Techniques. <i>IEEE Access</i> , <b>2020</b> , 8, 212478-212498	3.5	8
44	Unobtrusive acquisition and extraction of fetal and maternal ECG in the home setting <b>2017</b> ,		7
43	An Efficient and Robust Deep Learning Method with 1-D Octave Convolution to Extract Fetal Electrocardiogram. <i>Sensors</i> , <b>2020</b> , 20,	3.8	7
42	Investigation of Machine Learning Approaches for Traumatic Brain Injury Classification via EEG Assessment in Mice. <i>Sensors</i> , <b>2020</b> , 20,	3.8	7
41	Flexible Sputter-Deposited Carbon Strain Sensor. <i>IEEE Sensors Journal</i> , <b>2013</b> , 13, 444-445	4	6
40	<b>2018</b> ,		6
39	Investigation of Methods to Extract Fetal Electrocardiogram from the Mother's Abdominal Signal in Practical Scenarios. <i>Technologies</i> , <b>2020</b> , 8,	2.4	5
38	Wireless Passive Monitoring of Electrocardiogram in Firefighters <b>2018</b> ,		5

37	A wireless strain sensor system for bladder volume monitoring <b>2011</b> ,		5
36	Deep learning-based framework for cardiac function assessment in embryonic zebrafish from heart beating videos. <i>Computers in Biology and Medicine</i> , <b>2021</b> , 135, 104565	7	5
35	Acquisition, Processing and Analysis of Electrocardiogram in Awake Zebrafish. <i>IEEE Sensors Journal</i> , <b>2019</b> , 19, 4283-4289	4	4
34	Dry-contact microelectrode membranes for wireless detection of electrical phenotypes in neonatal mouse hearts. <i>Biomedical Microdevices</i> , <b>2015</b> , 17, 40	3-7	4
33	An Infant Monitoring System Using CO/sub 2/ Sensors <b>2007</b> ,		4
32	A wearable percutaneous implant for long term zebrafish epicardial ECG recording <b>2013</b> ,		3
31	Nanowire Modification to Enhance the Performance of Neurotransmitter Sensors. <i>Journal of Nanotechnology in Engineering and Medicine</i> , <b>2010</b> , 1,		3
30	<b>2017</b> ,		2
29	Development of a laser micro-machined interdigitated capacitive strain sensor for structural health monitoring applications <b>2014</b> ,		2
28	Wireless implants for in vivo diagnosis and closed-loop treatment <b>2011</b> ,		2
27	Correcting anisotropic intensity in light sheet images using dehazing and image morphology. <i>APL Bioengineering</i> , <b>2020</b> , 4, 036103	6.6	2
26	Automatic Segmentation and Cardiac Mechanics Analysis of Evolving Zebrafish Using Deep Learning. <i>Frontiers in Cardiovascular Medicine</i> , <b>2021</b> , 8, 675291	5-4	2
25	<b>2016</b> ,		2
24	Categorizing Sleep in Older Adults with Wireless Activity Monitors Using LSTM Neural Networks. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2019</b> , 2019, 3368-3372	0.9	2
23	<b>2017</b> ,		1
22	Characterization of Passive Wireless Electrocardiogram Acquisition in Adult Zebrafish <b>2018</b> ,		1
21	Home-based mobile fetal/maternal electrocardiogram acquisition and extraction with cloud assistance <b>2019</b> , 2019,		1
20	Wireless strain sensor based on amorphous carbon for human-motion detection <b>2013</b> ,		1

19	<b>2007,</b>			1
18	Development of a Home-based Fetal Electrocardiogram (ECG) Monitoring System. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2021, 2021, 7116-7119</i>	0.9		1
17	Electrocardiogram: Acquisition and Analysis for Biological Investigations and Health Monitoring <b>2020, 117-142</b>			1
16	A novel wireless ECG system for prolonged monitoring of multiple zebrafish for heart disease and drug screening studies. <i>Biosensors and Bioelectronics, 2022, 197, 113808</i>	11.8		1
15	Continuous Electrocardiogram Monitoring in Zebrafish with Prolonged Mild Anesthesia. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2020, 2020, 2610-2613</i>	0.9		1
14	Classification of Electroencephalogram in a Mouse Model of Traumatic Brain Injury Using Machine Learning Approaches. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2020, 2020, 2225-2228</i>	0.9		1
13	A Raspberry Pi-Based Traumatic Brain Injury Detection System for Single-Channel Electroencephalogram. <i>Sensors, 2021, 21,</i>	3.8		1
12	Evaluation of Non-viral NICD Plasmid-Loaded PLGA Nanoparticles in Developing Zebrafish to Improve Cardiac Functions.. <i>Frontiers in Physiology, 2022, 13, 819767</i>	4.6		0
11	Microelectrode array membranes to simultaneously assess cardiac and neurological signals of xenopus laevis under chemical exposures and environmental changes.. <i>Biosensors and Bioelectronics, 2022, 210, 114292</i>	11.8		0
10	Fabrication of Highly Sensitive Pt-black Electrochemical Sensors for GABA Detection. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2021, 2021, 7148-7151</i>	0.9		
9	Wirelessly Powered Medical Implants via Radio Frequency <b>2020, 101-116</b>			
8	Testing MD-Link, a Low-Cost Mobile Electrocardiography Monitoring Device, in Patients With Irregular Heartbeat: Protocol for a Cross-Sectional Study. <i>JMIR Research Protocols, 2019, 8, e2</i>		2	
7	Study of Zebrafish Cardiac Morphogenesis Using Computational Fluid Dynamics. <i>FASEB Journal, 2013, 27, 1187.8</i>		0.9	
6	Intravascular sensors to assess unstable plaques and their compositions: a review. <i>Progress in Biomedical Engineering, 2020, 2, 012001</i>		7.2	
5	Investigation of Machine Learning and Deep Learning Approaches for Detection of Mild Traumatic Brain Injury from Human Sleep Electroencephalogram. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2021, 2021, 6134-6137</i>		0.9	
4	Aging-associated sinus arrest and sick sinus syndrome in adult zebrafish <b>2020, 15, e0232457</b>			
3	Aging-associated sinus arrest and sick sinus syndrome in adult zebrafish <b>2020, 15, e0232457</b>			
2	Aging-associated sinus arrest and sick sinus syndrome in adult zebrafish <b>2020, 15, e0232457</b>			

- 1 Aging-associated sinus arrest and sick sinus syndrome in adult zebrafish **2020**, 15, e0232457