

Hung Cao

List of Publications by Year in Descending Order

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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 novel wireless ECG system for prolonged monitoring of multiple zebrafish for heart disease and drug screening studies. <i>Biosensors and Bioelectronics</i> , 2022 , 197, 113808	11.8	1
71	Evaluation of Non-viral NICD Plasmid-Loaded PLGA Nanoparticles in Developing Zebrafish to Improve Cardiac Functions.. <i>Frontiers in Physiology</i> , 2022 , 13, 819767	4.6	0
70	Microelectrode array membranes to simultaneously assess cardiac and neurological signals of xenopus laevis under chemical exposures and environmental changes.. <i>Biosensors and Bioelectronics</i> , 2022 , 210, 114292	11.8	0
69	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</i> , 2021 , 2021, 7148-7151	0.9	
68	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</i> , 2021 , 2021, 7116-7119	0.9	1
67	A Raspberry Pi-Based Traumatic Brain Injury Detection System for Single-Channel Electroencephalogram. <i>Sensors</i> , 2021 , 21,	3.8	1
66	Automatic Segmentation and Cardiac Mechanics Analysis of Evolving Zebrafish Using Deep Learning. <i>Frontiers in Cardiovascular Medicine</i> , 2021 , 8, 675291	5.4	2
65	Deep learning-based framework for cardiac function assessment in embryonic zebrafish from heart beating videos. <i>Computers in Biology and Medicine</i> , 2021 , 135, 104565	7	5
64	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</i> , 2021 , 2021, 6134-6137	0.9	
63	Aging-associated sinus arrest and sick sinus syndrome in adult zebrafish. <i>PLoS ONE</i> , 2020 , 15, e0232457	3.7	9
62	Investigation of Methods to Extract Fetal Electrocardiogram from the Mother's Abdominal Signal in Practical Scenarios. <i>Technologies</i> , 2020 , 8,	2.4	5
61	. <i>IEEE Sensors Journal</i> , 2020 , 20, 5130-5138	4	11
60	Wirelessly Powered Medical Implants via Radio Frequency 2020 , 101-116		
59	Electrocardiogram: Acquisition and Analysis for Biological Investigations and Health Monitoring 2020 , 117-142		1
58	Intravascular sensors to assess unstable plaques and their compositions: a review. <i>Progress in Biomedical Engineering</i> , 2020 , 2, 012001	7.2	
57	Plant Metabolite Databases: From Herbal Medicines to Modern Drug Discovery. <i>Journal of Chemical Information and Modeling</i> , 2020 , 60, 1101-1110	6.1	12
56	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</i> , 2020 , 2020, 2610-2613	0.9	1

55	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, 3335-3338</i>	0.9	1
54	An Efficient and Robust Deep Learning Method with 1-D Octave Convolution to Extract Fetal Electrocardiogram. <i>Sensors, 2020, 20,</i>	3.8	7
53	Correcting anisotropic intensity in light sheet images using dehazing and image morphology. <i>APL Bioengineering, 2020, 4, 036103</i>	6.6	2
52	Continuous Non-Invasive Blood Pressure Monitoring: A Methodological Review on Measurement Techniques. <i>IEEE Access, 2020, 8, 212478-212498</i>	3.5	8
51	Investigation of Machine Learning Approaches for Traumatic Brain Injury Classification via EEG Assessment in Mice. <i>Sensors, 2020, 20,</i>	3.8	7
50	Aging-associated sinus arrest and sick sinus syndrome in adult zebrafish 2020, 15, e0232457		
49	Aging-associated sinus arrest and sick sinus syndrome in adult zebrafish 2020, 15, e0232457		
48	Aging-associated sinus arrest and sick sinus syndrome in adult zebrafish 2020, 15, e0232457		
47	Aging-associated sinus arrest and sick sinus syndrome in adult zebrafish 2020, 15, e0232457		
46	Phenotyping an adult zebrafish lamp2 cardiomyopathy model identifies mTOR inhibition as a candidate therapy. <i>Journal of Molecular and Cellular Cardiology, 2019, 133, 199-208</i>	5.8	12
45	Acquisition, Processing and Analysis of Electrocardiogram in Awake Zebrafish. <i>IEEE Sensors Journal, 2019, 19, 4283-4289</i>	4	4
44	Home-based mobile fetal/maternal electrocardiogram acquisition and extraction with cloud assistance 2019, 2019,		1
43	Cardiac tissue engineering: state-of-the-art methods and outlook. <i>Journal of Biological Engineering, 2019, 13, 57</i>	6.3	51
42	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	
41	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, 2019, 2019, 3368-3372</i>	0.9	2
40	Characterization of Passive Wireless Electrocardiogram Acquisition in Adult Zebrafish 2018,		1
39	Wireless Passive Monitoring of Electrocardiogram in Firefighters 2018,		5
38	2018,		6

37	Modeling and process design optimization of a piezoelectric micromachined ultrasonic transducers (PMUT) using lumped elements parameters. <i>Microsystem Technologies</i> , 2017 , 23, 4659-4669	1.7	9
36	2017 ,		1
35	Real-Time Monitoring and Analysis of Zebrafish Electrocardiogram with Anomaly Detection. <i>Sensors</i> , 2017 , 18,	3.8	16
34	Unobtrusive acquisition and extraction of fetal and maternal ECG in the home setting 2017 ,		7
33	2017 ,		2
32	Cuff-Less and Continuous Blood Pressure Monitoring: A Methodological Review. <i>Technologies</i> , 2017 , 5, 21	2.4	109
31	2016 ,		2
30	2016 ,		19
29	Sol-gel deposition of iridium oxide for biomedical micro-devices. <i>Sensors</i> , 2015 , 15, 4212-28	3.8	14
28	Dry-contact microelectrode membranes for wireless detection of electrical phenotypes in neonatal mouse hearts. <i>Biomedical Microdevices</i> , 2015 , 17, 40	3.7	4
27	Development and Characterization of a Novel Interdigitated Capacitive Strain Sensor for Structural Health Monitoring. <i>IEEE Sensors Journal</i> , 2015 , 15, 6542-6548	4	22
26	Electrical and Mechanical Strategies to Enable Cardiac Repair and Regeneration. <i>IEEE Reviews in Biomedical Engineering</i> , 2015 , 8, 114-24	6.4	13
25	Power Approaches for Implantable Medical Devices. <i>Sensors</i> , 2015 , 15, 28889-914	3.8	199
24	Wearable multi-channel microelectrode membranes for elucidating electrophysiological phenotypes of injured myocardium. <i>Integrative Biology (United Kingdom)</i> , 2014 , 6, 789-95	3.7	28
23	Fabrication and characterization of biomimetic multichanneled crosslinked-urethane-doped polyester tissue engineered nerve guides. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 2793-804	5.4	32
22	Stretchable electrochemical impedance sensors for intravascular detection of lipid-rich lesions in New Zealand White rabbits. <i>Biosensors and Bioelectronics</i> , 2014 , 54, 610-6	11.8	18
21	Hemodynamics and ventricular function in a zebrafish model of injury and repair. <i>Zebrafish</i> , 2014 , 11, 447-54	2	25
20	Development of a laser micro-machined interdigitated capacitive strain sensor for structural health monitoring applications 2014 ,		2

19	Shear stress-activated Wnt-angiopoietin-2 signaling recapitulates vascular repair in zebrafish embryos. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014 , 34, 2268-75	9.4	45
18	Flexible Sputter-Deposited Carbon Strain Sensor. <i>IEEE Sensors Journal</i> , 2013 , 13, 444-445	4	6
17	Wireless strain sensor based on amorphous carbon for human-motion detection 2013 ,		1
16	Sol-Gel Iridium Oxide-Based pH Sensor Array on Flexible Polyimide Substrate. <i>IEEE Sensors Journal</i> , 2013 , 13, 3857-3864	4	33
15	An integrated μ ED optrode for optogenetic stimulation and electrical recording. <i>IEEE Transactions on Biomedical Engineering</i> , 2013 , 60, 225-9	5	82
14	Batteryless implantable dual-sensor capsule for esophageal reflux monitoring. <i>Gastrointestinal Endoscopy</i> , 2013 , 77, 649-53	5.2	21
13	A wireless bladder volume monitoring system using a flexible capacitance-based sensor 2013 ,		14
12	A wearable percutaneous implant for long term zebrafish epicardial ECG recording 2013 ,		3
11	Moving domain computational fluid dynamics to interface with an embryonic model of cardiac morphogenesis. <i>PLoS ONE</i> , 2013 , 8, e72924	3.7	42
10	Study of Zebrafish Cardiac Morphogenesis Using Computational Fluid Dynamics. <i>FASEB Journal</i> , 2013 , 27, 1187.8	0.9	
9	An implantable, batteryless, and wireless capsule with integrated impedance and pH sensors for gastroesophageal reflux monitoring. <i>IEEE Transactions on Biomedical Engineering</i> , 2012 , 59, 3131-9	5	75
8	. <i>IEEE Sensors Journal</i> , 2012 , 12, 1618-1624	4	17
7	Wireless implants for in vivo diagnosis and closed-loop treatment 2011 ,		2
6	A flexible pH sensor based on the iridium oxide sensing film. <i>Sensors and Actuators A: Physical</i> , 2011 , 169, 1-11	3.9	212
5	A wireless strain sensor system for bladder volume monitoring 2011 ,		5
4	Nanowire Modification to Enhance the Performance of Neurotransmitter Sensors. <i>Journal of Nanotechnology in Engineering and Medicine</i> , 2010 , 1,		3
3	Evaluation of commercial metal-oxide based NO ₂ sensors. <i>Sensor Review</i> , 2007 , 27, 121-131	1.4	20
2	2007 ,		1

1 An Infant Monitoring System Using CO/sub 2/ Sensors **2007**,

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