

Canhua Xu

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

370
citations

933447

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h-index

839539

18
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24
all docs

24
docs citations

24
times ranked

270
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Precision Electrical Impedance Tomography Data Acquisition System for Brain Imaging. IEEE Sensors Journal, 2018, 18, 5974-5984.	4.7	75
2	An optimized strategy for real-time hemorrhage monitoring with electrical impedance tomography. Physiological Measurement, 2011, 32, 585-598.	2.1	40
3	Ex-Vivo Characterization of Bioimpedance Spectroscopy of Normal, Ischemic and Hemorrhagic Rabbit Brain Tissue at Frequencies from 10 Hz to 1 MHz. Sensors, 2016, 16, 1942.	3.8	28
4	Comparison of electrical impedance tomography and intracranial pressure during dehydration treatment of cerebral edema. NeuroImage: Clinical, 2019, 23, 101909.	2.7	27
5	The Frequency Spectral Properties of Electrode-Skin Contact Impedance on Human Head and Its Frequency-Dependent Effects on Frequency-Difference EIT in Stroke Detection from 10Hz to 1MHz. PLoS ONE, 2017, 12, e0170563.	2.5	26
6	Real-time imaging of subarachnoid hemorrhage in piglets with electrical impedance tomography. Physiological Measurement, 2010, 31, 1229-1239.	2.1	22
7	Electrical Impedance Changes at Different Phases of Cerebral Edema in Rats with Ischemic Brain Injury. BioMed Research International, 2018, 2018, 1-10.	1.9	17
8	Real-time imaging of infarction deterioration after ischemic stroke in rats using electrical impedance tomography. Physiological Measurement, 2020, 41, 015004.	2.1	14
9	Exploratory Study on the Methodology of Fast Imaging of Unilateral Stroke Lesions by Electrical Impedance Asymmetry in Human Heads. Scientific World Journal, The, 2014, 2014, 1-18.	2.1	13
10	Adaptive threshold split Bregman algorithm based on magnetic induction tomography for brain injury monitoring imaging. Physiological Measurement, 2021, 42, 065004.	2.1	12
11	Global and regional degree of obstruction determined by electrical impedance tomography in patients with obstructive ventilatory defect. PLoS ONE, 2018, 13, e0209473.	2.5	11
12	Comparison of Drive Patterns for Single Current Source EIT in Computational Phantom. , 2008, , .		10
13	Fast detection and data compensation for electrodes disconnection in long-term monitoring of dynamic brain electrical impedance tomography. BioMedical Engineering OnLine, 2017, 16, 7.	2.7	10
14	Optimized Method for Electrical Impedance Tomography to Image Large Area Conductive Perturbation. IEEE Access, 2019, 7, 140734-140742.	4.2	10
15	An on-line processing strategy for head movement interferences removal of dynamic brain electrical impedance tomography based on wavelet decomposition. BioMedical Engineering OnLine, 2019, 18, 55.	2.7	8
16	Removing Clinical Motion Artifacts During Ventilation Monitoring With Electrical Impedance Tomography: Introduction of Methodology and Validation With Simulation and Patient Data. Frontiers in Medicine, 2022, 9, 817590.	2.6	8
17	EIT Imaging of Intracranial Hemorrhage in Rabbit Models Is Influenced by the Intactness of Cranium. BioMed Research International, 2018, 2018, 1-10.	1.9	7
18	Dielectric Properties of Human Active Liver, Kidney and Spleen Compared to Those of Respective Inactive Tissues, Porcine Tissues and the Data Provided by a Database in the Frequency Range of 10 Hz to 100 MHz. IEEE Transactions on Biomedical Engineering, 2021, 68, 3098-3109.	4.2	7

#	ARTICLE	IF	CITATIONS
19	Design and implementation of a high-precision electrical impedance tomography data acquisition system for brain imaging. , 2016, , .		6
20	Combing signal processing methods with algorithm priori information to produce synergetic improvements on continuous imaging of brain electrical impedance tomography. Scientific Reports, 2018, 8, 10086.	3.3	6
21	Automatic Evaluation of Mannitol Dehydration Treatments on Controlling Intracranial Pressure Using Electrical Impedance Tomography. IEEE Sensors Journal, 2020, 20, 4832-4839.	4.7	6
22	Multifrequency Magnetic Induction Tomography for Hemorrhagic Stroke Detection Using an Adaptive Threshold Split Bregman Algorithm. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-13.	4.7	5
23	Research on Eit Boundary Measured Voltage Data Denoising Based on a Subspace Method. Biotechnology and Biotechnological Equipment, 2013, 27, 4157-4161.	1.3	2
24	Numerical simulations of magnetic induction tomography system based on a 3D head model. International Journal of Applied Electromagnetics and Mechanics, 2022, 70, 377-386.	0.6	0