

Canhua Xu

List of Publications by Year in descending order

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Version: 2024-02-01

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papers

370
citations

933447

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docs citations

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times ranked

270
citing authors

#	ARTICLE	IF	CITATIONS
1	Removing Clinical Motion Artifacts During Ventilation Monitoring With Electrical Impedance Tomography: Introduction of Methodology and Validation With Simulation and Patient Data. <i>Frontiers in Medicine</i> , 2022, 9, 817590.	2.6	8
2	Numerical simulations of magnetic induction tomography system based on a 3D head model. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2022, 70, 377-386.	0.6	0
3	Multifrequency Magnetic Induction Tomography for Hemorrhagic Stroke Detection Using an Adaptive Threshold Split Bregman Algorithm. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022, 71, 1-13.	4.7	5
4	Adaptive threshold split Bregman algorithm based on magnetic induction tomography for brain injury monitoring imaging. <i>Physiological Measurement</i> , 2021, 42, 065004.	2.1	12
5	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. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 3098-3109.	4.2	7
6	Real-time imaging of infarction deterioration after ischemic stroke in rats using electrical impedance tomography. <i>Physiological Measurement</i> , 2020, 41, 015004.	2.1	14
7	Automatic Evaluation of Mannitol Dehydration Treatments on Controlling Intracranial Pressure Using Electrical Impedance Tomography. <i>IEEE Sensors Journal</i> , 2020, 20, 4832-4839.	4.7	6
8	Comparison of electrical impedance tomography and intracranial pressure during dehydration treatment of cerebral edema. <i>NeuroImage: Clinical</i> , 2019, 23, 101909.	2.7	27
9	Optimized Method for Electrical Impedance Tomography to Image Large Area Conductive Perturbation. <i>IEEE Access</i> , 2019, 7, 140734-140742.	4.2	10
10	An on-line processing strategy for head movement interferences removal of dynamic brain electrical impedance tomography based on wavelet decomposition. <i>BioMedical Engineering OnLine</i> , 2019, 18, 55.	2.7	8
11	Global and regional degree of obstruction determined by electrical impedance tomography in patients with obstructive ventilatory defect. <i>PLoS ONE</i> , 2018, 13, e0209473.	2.5	11
12	EIT Imaging of Intracranial Hemorrhage in Rabbit Models Is Influenced by the Intactness of Cranium. <i>BioMed Research International</i> , 2018, 2018, 1-10.	1.9	7
13	High-Precision Electrical Impedance Tomography Data Acquisition System for Brain Imaging. <i>IEEE Sensors Journal</i> , 2018, 18, 5974-5984.	4.7	75
14	Electrical Impedance Changes at Different Phases of Cerebral Edema in Rats with Ischemic Brain Injury. <i>BioMed Research International</i> , 2018, 2018, 1-10.	1.9	17
15	Combing signal processing methods with algorithm priori information to produce synergetic improvements on continuous imaging of brain electrical impedance tomography. <i>Scientific Reports</i> , 2018, 8, 10086.	3.3	6
16	Fast detection and data compensation for electrodes disconnection in long-term monitoring of dynamic brain electrical impedance tomography. <i>BioMedical Engineering OnLine</i> , 2017, 16, 7.	2.7	10
17	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. <i>PLoS ONE</i> , 2017, 12, e0170563.	2.5	26
18	Ex-Vivo Characterization of Bioimpedance Spectroscopy of Normal, Ischemic and Hemorrhagic Rabbit Brain Tissue at Frequencies from 10 Hz to 1 MHz. <i>Sensors</i> , 2016, 16, 1942.	3.8	28

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19	Design and implementation of a high-precision electrical impedance tomography data acquisition system for brain imaging. , 2016, , .		6
20	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
21	Research on Eit Boundary Measured Voltage Data Denoising Based on a Subspace Method. Biotechnology and Biotechnological Equipment, 2013, 27, 4157-4161.	1.3	2
22	An optimized strategy for real-time hemorrhage monitoring with electrical impedance tomography. Physiological Measurement, 2011, 32, 585-598.	2.1	40
23	Real-time imaging of subarachnoid hemorrhage in piglets with electrical impedance tomography. Physiological Measurement, 2010, 31, 1229-1239.	2.1	22
24	Comparison of Drive Patterns for Single Current Source EIT in Computational Phantom. , 2008, , .		10