Yunjie Yang

List of Publications by Year
in descending order

58 papers	1,216 citations	471509 17 h-index	395702 33 g-index
58 all docs	58 docs citations	58 times ranked	748 citing authors

#	Article	IF	Citations
1	Image Reconstruction in Electrical Impedance Tomography Based on Structure-Aware Sparse Bayesian Learning. IEEE Transactions on Medical Imaging, 2018, 37, 2090-2102.	8.9	158
2	FISTA-Net: Learning a Fast Iterative Shrinkage Thresholding Network for Inverse Problems in Imaging. IEEE Transactions on Medical Imaging, 2021, 40, 1329-1339.	8.9	105
3	Accelerated Structure-Aware Sparse Bayesian Learning for Three-Dimensional Electrical Impedance Tomography. IEEE Transactions on Industrial Informatics, 2019, 15, 5033-5041.	11.3	92
4	An Image Reconstruction Algorithm for Electrical Impedance Tomography Using Adaptive Group Sparsity Constraint. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 2295-2305.	4.7	77
5	A multi-frequency electrical impedance tomography system for real-time 2D and 3D imaging. Review of Scientific Instruments, 2017, 88, 085110.	1.3	75
6	A Miniature Electrical Impedance Tomography Sensor and 3-D Image Reconstruction for Cell Imaging. IEEE Sensors Journal, 2017, 17, 514-523.	4.7	75
7	Electrical impedance tomography for real-time and label-free cellular viability assays of 3D tumour spheroids. Analyst, The, 2018, 143, 4189-4198.	3.5	47
8	A novel multi-electrode sensing strategy for electrical capacitance tomography with ultra-low dynamic range. Flow Measurement and Instrumentation, 2017, 53, 67-79.	2.0	42
9	A configurable electrical capacitance tomography system using a combining electrode strategy. Measurement Science and Technology, 2013, 24, 074005.	2.6	36
10	Data Pattern With ECT Sensor and Its Impact on Image Reconstruction. IEEE Sensors Journal, 2013, 13, 1582-1593.	4.7	32
11	A Custom, High-Channel Count Data Acquisition System for Chemical Species Tomography of Aero-Jet Engine Exhaust Plumes. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 549-558.	4.7	31
12	Scaffold-Based 3-D Cell Culture Imaging Using a Miniature Electrical Impedance Tomography Sensor. IEEE Sensors Journal, 2019, 19, 9071-9080.	4.7	30
13	Image Reconstruction for Electrical Impedance Tomography Using Enhanced Adaptive Group Sparsity With Total Variation. IEEE Sensors Journal, 2017, 17, 5589-5598.	4.7	29
14	A Micro EIT Sensor for Real-Time and Non-Destructive 3-D Cultivated Cell Imaging. IEEE Sensors Journal, 2018, 18, 5402-5412.	4.7	28
15	Multi-Frequency Electromagnetic Tomography for Acute Stroke Detection Using Frequency-Constrained Sparse Bayesian Learning. IEEE Transactions on Medical Imaging, 2020, 39, 4102-4112.	8.9	28
16	Liquid distribution and hold-up measurement in counter current flow packed column by electrical capacitance tomography. Chemical Engineering Journal, 2018, 353, 519-532.	12.7	26
17	Exploring the Potential of Electrical Impedance Tomography for Tissue Engineering Applications. Materials, 2018, 11, 930.	2.9	26
18	Effect of structured packing on EIT image reconstruction. , 2014, , .		25

#	Article	IF	Citations
19	Deep Learning Based Cell Imaging with Electrical Impedance Tomography. , 2020, , .		18
20	Hybrid Learning-Based Cell Aggregate Imaging With Miniature Electrical Impedance Tomography. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	4.7	14
21	Structure-Aware Dual-Branch Network for Electrical Impedance Tomography in Cell Culture Imaging. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-9.	4.7	14
22	Real-Time NLOS/LOS Identification for Smartphone-Based Indoor Positioning Systems Using WiFi RTT and RSS. IEEE Sensors Journal, 2022, 22, 5199-5209.	4.7	14
23	Image reconstruction for electrical impedance tomography based on spatial invariant feature maps and convolutional neural network. , 2019, , .		13
24	Impedance-Optical Dual-Modal Cell Culture Imaging With Learning-Based Information Fusion. IEEE Transactions on Medical Imaging, 2022, 41, 983-996.	8.9	13
25	A Novel Method for the Image Quality Improvement of Ultrasonic Tomography. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	4.7	12
26	Gas-Liquid Two-Phase Stratified Flow Interface Reconstruction With Sparse Batch Normalization Convolutional Neural Network. IEEE Sensors Journal, 2021, 21, 17076-17084.	4.7	12
27	MMV-Net: A Multiple Measurement Vector Network for Multifrequency Electrical Impedance Tomography. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 8938-8949.	11.3	12
28	Quantification of Gas Distribution and Void Fraction in Packed Bubble Column Using Electrical Resistance Tomography. IEEE Sensors Journal, 2018, 18, 8963-8970.	4.7	10
29	Multiple Measurement Vector-Based Complex-Valued Multifrequency ECT. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	4.7	10
30	Linearization Point and Frequency Selection for Complex-Valued Electrical Capacitance Tomography. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	4.7	9
31	Image Reconstruction of Electrical Impedance Tomography Based on Optical Image-Guided Group Sparsity. IEEE Sensors Journal, 2021, 21, 21893-21902.	4.7	9
32	A faster measurement strategy of electrical capacitance tomography using less sensing data. , 2015, , .		8
33	Calibrated Frequency-Difference Electrical Impedance Tomography for 3D Tissue Culture Monitoring. IEEE Sensors Journal, 2019, 19, 7813-7821.	4.7	8
34	Quantitative Measurement of Two-Phase Flow by Electrical Capacitance Tomography Based on 3D Coupling Field Simulation. IEEE Sensors Journal, 2021, 21, 20136-20144.	4.7	8
35	Image reconstruction algorithm for electrical impedance tomography based on block sparse Bayesian learning. , 2017, , .		7
36	Multimodal Image Reconstruction of Electrical Impedance Tomography Using Kernel Method. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-12.	4.7	7

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37	3D image reconstruction on a miniature planar EIT sensor using sparsity with median filter. , 2017, , .		6
38	High Sensitive Capacitive Sensing Method for Thickness Detection of the Water Film on an Insulation Surface. IEEE Access, 2019, 7, 96384-96391.	4.2	6
39	Flow regime transition in countercurrent packed column monitored by ECT. Chemical Engineering Journal, 2021, 420, 129841.	12.7	6
40	Multiphase flowrate measurement with time series sensing data and sequential model. International Journal of Multiphase Flow, 2022, 146, 103875.	3.4	6
41	Design and fabrication of microelectrodes for electrical impedance tomography of cell spheroids. , 2016, , .		5
42	Magnetic Disturbance Detection for Smartphone-Based Indoor Positioning Systems With Unsupervised Learning. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-11.	4.7	4
43	Multiphase flowrate measurement with time series sensing data and sequential model. , 2021, , .		3
44	An Image Reconstruction Algorithm for Electrical Impedance Tomography Using Measurement Estimation of Virtual Electrodes. IEEE Sensors Journal, 2022, 22, 13012-13022.	4.7	3
45	Correlation analysis of solid particles' permittivity and composition using electrical capacitance tomography and Maxwell Garnett formula. , 2016, , .		2
46	Imaging cell-drug response in 3D bioscaffolds by electrical impedance tomography. , 2017, , .		2
47	Correlation of Volume Ratio and Normalized Permittivity in Particle Mixture. IEEE Access, 2017, 5, 15875-15882.	4.2	2
48	Impedance-optical Dual-modal Sensor and Image Reconstruction for Cell Spheroids Imaging. , 2020, , .		2
49	Direct estimation of gas holdup in gasâ€"liquid bubble column reactors using ultrasonic transmission tomography and artificial neural processing. Measurement Science and Technology, 2022, 33, 074004.	2.6	2
50	Comparison of regularisation methods in image reconstruction for micro-bioimpedance tomography. , 2017, , .		1
51	Comparison of machine learning methods for multiphase flowrate prediction. , 2019, , .		1
52	Frequency-difference imaging for multi-frequency complex-valued ECT. , 2019, , .		1
53	Simulation of Flooding Phenomenon in Packed Column using Electrical Capacitance Tomography. , 2019, , .		1
54	Image Reconstruction for Multi-frequency Electromagnetic Tomography based on Multiple Measurement Vector Model. , 2020, , .		1

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55	Multiphase Flowrate Measurement With Multimodal Sensors and Temporal Convolutional Network. IEEE Sensors Journal, 2023, 23, 4508-4517.	4.7	1
56	Flooding Prognostic in Packed Columns Based on Electrical Capacitance Tomography and Convolution Neural Network. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-14.	4.7	1
57	Characterization of capacitance sensor for the measurement of water droplet in gas. , 2014, , .		0
58	Simulation study of scaffold 3D cell culture imaging using a miniature planar EIT sensor. , 2017, , .		0