

Yunjie Yang

List of Publications by Year in descending order

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58
papers

1,216
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471509

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times ranked

748
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Multiphase Flowrate Measurement With Multimodal Sensors and Temporal Convolutional Network. IEEE Sensors Journal, 2023, 23, 4508-4517.	4.7	1
3	An Image Reconstruction Algorithm for Electrical Impedance Tomography Using Measurement Estimation of Virtual Electrodes. IEEE Sensors Journal, 2022, 22, 13012-13022.	4.7	3
4	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
5	Multiphase flowrate measurement with time series sensing data and sequential model. International Journal of Multiphase Flow, 2022, 146, 103875.	3.4	6
6	Multimodal Image Reconstruction of Electrical Impedance Tomography Using Kernel Method. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-12.	4.7	7
7	Impedance-Optical Dual-Modal Cell Culture Imaging With Learning-Based Information Fusion. IEEE Transactions on Medical Imaging, 2022, 41, 983-996.	8.9	13
8	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
9	Direct estimation of gas holdup in gas-liquid bubble column reactors using ultrasonic transmission tomography and artificial neural processing. Measurement Science and Technology, 2022, 33, 074004.	2.6	2
10	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
11	A Novel Method for the Image Quality Improvement of Ultrasonic Tomography. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	4.7	12
12	Hybrid Learning-Based Cell Aggregate Imaging With Miniature Electrical Impedance Tomography. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	4.7	14
13	Linearization Point and Frequency Selection for Complex-Valued Electrical Capacitance Tomography. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	4.7	9
14	Multiple Measurement Vector-Based Complex-Valued Multifrequency ECT. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	4.7	10
15	Image Reconstruction of Electrical Impedance Tomography Based on Optical Image-Guided Group Sparsity. IEEE Sensors Journal, 2021, 21, 21893-21902.	4.7	9
16	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
17	Multiphase flowrate measurement with time series sensing data and sequential model. , 2021, , .		3
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	Flow regime transition in countercurrent packed column monitored by ECT. Chemical Engineering Journal, 2021, 420, 129841.	12.7	6
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	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
23	Deep Learning Based Cell Imaging with Electrical Impedance Tomography. , 2020, , .		18
24	Image Reconstruction for Multi-frequency Electromagnetic Tomography based on Multiple Measurement Vector Model. , 2020, , .		1
25	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
26	Impedance-optical Dual-modal Sensor and Image Reconstruction for Cell Spheroids Imaging. , 2020, , .		2
27	Calibrated Frequency-Difference Electrical Impedance Tomography for 3D Tissue Culture Monitoring. IEEE Sensors Journal, 2019, 19, 7813-7821.	4.7	8
28	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
29	Scaffold-Based 3-D Cell Culture Imaging Using a Miniature Electrical Impedance Tomography Sensor. IEEE Sensors Journal, 2019, 19, 9071-9080.	4.7	30
30	Accelerated Structure-Aware Sparse Bayesian Learning for Three-Dimensional Electrical Impedance Tomography. IEEE Transactions on Industrial Informatics, 2019, 15, 5033-5041.	11.3	92
31	Image reconstruction for electrical impedance tomography based on spatial invariant feature maps and convolutional neural network. , 2019, , .		13
32	Comparison of machine learning methods for multiphase flowrate prediction. , 2019, , .		1
33	Frequency-difference imaging for multi-frequency complex-valued ECT. , 2019, , .		1
34	Simulation of Flooding Phenomenon in Packed Column using Electrical Capacitance Tomography. , 2019, , .		1
35	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
36	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

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37	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
38	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
39	Exploring the Potential of Electrical Impedance Tomography for Tissue Engineering Applications. Materials, 2018, 11, 930.	2.9	26
40	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
41	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
42	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
43	A multi-frequency electrical impedance tomography system for real-time 2D and 3D imaging. Review of Scientific Instruments, 2017, 88, 085110.	1.3	75
44	Image Reconstruction for Electrical Impedance Tomography Using Enhanced Adaptive Group Sparsity With Total Variation. IEEE Sensors Journal, 2017, 17, 5589-5598.	4.7	29
45	A Miniature Electrical Impedance Tomography Sensor and 3-D Image Reconstruction for Cell Imaging. IEEE Sensors Journal, 2017, 17, 514-523.	4.7	75
46	Image reconstruction algorithm for electrical impedance tomography based on block sparse Bayesian learning. , 2017, , .		7
47	Imaging cell-drug response in 3D bioscaffolds by electrical impedance tomography. , 2017, , .		2
48	Correlation of Volume Ratio and Normalized Permittivity in Particle Mixture. IEEE Access, 2017, 5, 15875-15882.	4.2	2
49	Simulation study of scaffold 3D cell culture imaging using a miniature planar EIT sensor. , 2017, , .		0
50	Comparison of regularisation methods in image reconstruction for micro-bioimpedance tomography. , 2017, , .		1
51	3D image reconstruction on a miniature planar EIT sensor using sparsity with median filter. , 2017, , .		6
52	Design and fabrication of microelectrodes for electrical impedance tomography of cell spheroids. , 2016, , .		5
53	Correlation analysis of solid particles' permittivity and composition using electrical capacitance tomography and Maxwell Garnett formula. , 2016, , .		2
54	A faster measurement strategy of electrical capacitance tomography using less sensing data. , 2015, , .		8

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55	Effect of structured packing on EIT image reconstruction. , 2014, , .		25
56	Characterization of capacitance sensor for the measurement of water droplet in gas. , 2014, , .		0
57	Data Pattern With ECT Sensor and Its Impact on Image Reconstruction. IEEE Sensors Journal, 2013, 13, 1582-1593.	4.7	32
58	A configurable electrical capacitance tomography system using a combining electrode strategy. Measurement Science and Technology, 2013, 24, 074005.	2.6	36