Yi Li

List of Publications by Year in descending order

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Version: 2024-02-01

25 papers	306 citations	1040056 9 h-index	888059 17 g-index
25 all docs	25 docs citations	25 times ranked	280 citing authors

#	Article	IF	Citations
1	Gas/oil/water flow measurement by electrical capacitance tomography. Measurement Science and Technology, 2013, 24, 074001.	2.6	78
2	Measurement of water content of oil-water two-phase flows using dual-frequency microwave method in combination with deep neural network. Measurement: Journal of the International Measurement Confederation, 2019, 131, 92-99.	5.0	38
3	Measurement of Gas-Oil Two-Phase Flow Patterns by Using CNN Algorithm Based on Dual ECT Sensors with Venturi Tube. Sensors, 2020, 20, 1200.	3.8	31
4	Flow Adversarial Networks: Flowrate Prediction for Gasâ€“Liquid Multiphase Flows Across Different Domains. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 475-487.	11.3	23
5	Long-Distance Pipeline Safety Early Warning: A Distributed Optical Fiber Sensing Semi-Supervised Learning Method. IEEE Sensors Journal, 2021, 21, 19453-19461.	4.7	20
6	LSTM Model Based on Multi-Feature Extractor to Detect Flow Pattern Change Characteristics and Parameter Measurement. IEEE Sensors Journal, 2021, 21, 3713-3721.	4.7	13
7	Big Data driven U-Net based Electrical Capacitance Image Reconstruction Algorithm. , 2019, , .		10
8	Pipeline Safety Early Warning by Multifeature-Fusion CNN and LightGBM Analysis of Signals From Distributed Optical Fiber Sensors. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13.	4.7	10
9	Multiple Measurement Vector-Based Complex-Valued Multifrequency ECT. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	4.7	10
10	Linearization Point and Frequency Selection for Complex-Valued Electrical Capacitance Tomography. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	4.7	9
11	ECT Attention Reverse Mapping algorithm: visualization of flow pattern heatmap based on convolutional neural network and its impact on ECT image reconstruction. Measurement Science and Technology, 2021, 32, 035403.	2.6	8
12	A Novel Multi-Sensor Fusion Algorithm Based on Uncertainty Analysis. Sensors, 2021, 21, 2713.	3.8	7
13	Conductance Sensor-Based Flowrate Estimation of Horizontal Gas-Water Slug Flow From Interfacial Wave Statistics. IEEE Sensors Journal, 2021, 21, 9288-9299.	4.7	7
14	Flowrate Estimation of Horizontal Gasâ€“Water Slug Flow Based on Venturi Tube and Conductance Sensor. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	4.7	6
15	A Wet Gas Metering System Based on the Extended-Throat Venturi Tube. Sensors, 2021, 21, 2120.	3.8	6
16	Imaging of flow pattern of gas-oil flows with convolutional neural network. , 2019, , .		5
17	Measurement of the flow rate of oil and water using microwave and Venturi sensors with end-to-end dual convolutional neural network. Measurement: Sensors, 2020, 10-12, 100018.	1.7	5
18	CNN-Based Volume Flow Rate Prediction of Oilâ€“Gasâ€“Water Three-Phase Intermittent Flow from Multiple Sensors. Sensors, 2021, 21, 1245.	3.8	5

#	Article	IF	Citations
19	Conductivity Prediction and Image Reconstruction of Complex-Valued Multi-Frequency Electrical Capacitance Tomography Based on Deep Neural Network. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-10.	4.7	4
20	An HDTV-SB imaging algorithm for wire-mesh tomography. Measurement Science and Technology, 2020, 31, 045404.	2.6	3
21	Experimental investigation of gas-oil two-phase flow using electrical capacitance tomography. , 2017, , .		2
22	An image reconstruction method for improving resolution of capacitive wire mesh tomography. , 2017, , .		2
23	Conductance Sensor With Self-Calibration and Venturi Tube Based Flowrate Measurement for Gasâ€“Water Slug Flow. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-14.	4.7	2
24	A Fast Way to Get Sensitivity Map of Wire-Mesh. , 2018, , .		1
25	Comparison of machine learning methods for multiphase flowrate prediction. , 2019, , .		1