Feng Dong

List of Publications by Year
in descending order

347 papers	3,535 citations	136950 32 h-index	223800 46 g-index
353 all docs	353 docs citations	353 times ranked	1730 citing authors

#	ARTICLE	IF	CITATIONS
1	Image Reconstruction Based on Convolutional Neural Network for Electrical Resistance Tomography. IEEE Sensors Journal, 2019, 19, 196-204.	4.7	171
2	Application of electrical resistance tomography to two-phase pipe flow parameters measurement. Flow Measurement and Instrumentation, 2003, 14, 183-192.	2.0	110
3	Identification of gas/liquid two-phase flow regime through ERT-based measurement and feature extraction. Flow Measurement and Instrumentation, 2007, 18, 255-261.	2.0	97
4	A Two-Stage Deep Learning Method for Robust Shape Reconstruction With Electrical Impedance Tomography. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 4887-4897.	4.7	86
5	Fast photocatalytic degradation of dyes using low-power laser-fabricated Cu_2O–Cu nanocomposites. RSC Advances, 2018, 8, 20277-20286.	3.6	70
6	Design of Parallel Electrical Resistance Tomography System for Measuring Multiphase Flow. Chinese Journal of Chemical Engineering, 2012, 20, 368-379.	3.5	67
7	An Ultrasonic Transmission/Reflection Tomography System for Industrial Multiphase Flow Imaging. IEEE Transactions on Industrial Electronics, 2019, 66, 9539-9548.	7.9	63
8	Ultrasonic Doppler Technique for Application to Multiphase Flows: A Review. International Journal of Multiphase Flow, 2021, 144, 103811.	3.4	63
9	Identification of two-phase flow regimes in horizontal, inclined and vertical pipes. Measurement Science and Technology, 2001, 12, 1069-1075.	2.6	54
10	The design of a dual-plane ERT system for cross correlation measurement of bubbly gas/liquid pipe flow. Measurement Science and Technology, 2001, 12, 1024-1031.	2.6	53
11	Application of dual-plane ERT system and cross-correlation technique to measure gas–liquid flows in vertical upward pipe. Flow Measurement and Instrumentation, 2005, 16, 191-197.	2.0	52
12	A Robust Inclusion Boundary Reconstructor for Electrical Impedance Tomography With Geometric Constraints. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 762-773.	4.7	51
13	Design of a Conductance and Capacitance Combination Sensor for water holdup measurement in oil–water two-phase flow. Flow Measurement and Instrumentation, 2015, 46, 218-229.	2.0	50
14	A Statistical Shape-Constrained Reconstruction Framework for Electrical Impedance Tomography. IEEE Transactions on Medical Imaging, 2019, 38, 2400-2410.	8.9	49
15	Characterization of oil–water two-phase pipe flow with a combined conductivity/capacitance sensor and wavelet analysis. Chemical Engineering Science, 2015, 134, 153-168.	3.8	46
16	V-Net Deep Imaging Method for Electrical Resistance Tomography. IEEE Sensors Journal, 2020, 20, 6460-6469.	4.7	46
17	Two Methods for Measurement of Gas-Liquid Flows in Vertical Upward Pipe Using Dual-Plane ERT System. IEEE Transactions on Instrumentation and Measurement, 2006, 55, 1576-1586.	4.7	45
18	A hybrid regularization method combining Tikhonov with total variation for electrical resistance tomography. Flow Measurement and Instrumentation, 2015, 46, 268-275.	2.0	45

#	ARTICLE	IF	CITATIONS
19	Oil–water two-phase flow velocity measurement with continuous wave ultrasound Doppler. Chemical Engineering Science, 2015, 135, 155-165.	3.8	44
20	On fluctuation of the dynamic differential pressure signal of Venturi meter for wet gas metering. Flow Measurement and Instrumentation, 2003, 14, 211-217.	2.0	43
21	Conductance Sensors for Multiphase Flow Measurement: A Review. IEEE Sensors Journal, 2021, 21, 12913-12925.	4.7	43
22	A Wideband Electrical Impedance Tomography System Based on Sensitive Bioimpedance Spectrum Bandwidth. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 144-154.	4.7	42
23	Measuring Oil–Water Two-Phase Flow Velocity With Continuous-Wave Ultrasound Doppler Sensor and Drift-Flux Model. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 1098-1107.	4.7	38
24	Gas–Liquid Two-Phase Flow Velocity Measurement With Continuous Wave Ultrasonic Doppler and Conductance Sensor. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 3064-3076.	4.7	38
25	Measurement of Oil–Water Two-Phase Flow Phase Fraction With Ultrasound Attenuation. IEEE Sensors Journal, 2018, 18, 1150-1159.	4.7	38
26	Inclusion boundary reconstruction and sensitivity analysis in electrical impedance tomography. Inverse Problems in Science and Engineering, 2018, 26, 1037-1061.	1.2	38
27	Oil-gas-water three-phase flow characterization and velocity measurement based on time-frequency decomposition. International Journal of Multiphase Flow, 2019, 111, 219-231.	3.4	38
28	Gas–water two-phase flow characterization with Electrical Resistance Tomography and Multivariate Multiscale Entropy analysis. ISA Transactions, 2015, 55, 241-249.	5.7	37
29	An adaptive Tikhonov regularization parameter choice method for electrical resistance tomography. Flow Measurement and Instrumentation, 2016, 50, 1-12.	2.0	37
30	Electrical Resistance Tomography Image Reconstruction With Densely Connected Convolutional Neural Network. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	4.7	36
31	High GVF and low pressure gas–liquid two-phase flow measurement based on dual-cone flowmeter. Flow Measurement and Instrumentation, 2010, 21, 410-417.	2.0	34
32	Dispersed Oil–Water Two-Phase Flow Measurement Based on Pulse-Wave Ultrasonic Doppler Coupled With Electrical Sensors. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 2129-2142.	4.7	34
33	A Kalman estimation based oil–water two-phase flow measurement with CRCC. International Journal of Multiphase Flow, 2015, 72, 306-317.	3.4	31
34	Optimum estimation of the mean flow velocity for the multi-electrode inductance flowmeter. Measurement Science and Technology, 2001, 12, 1139-1146.	2.6	30
35	Electrical resistance tomography for locating inclusions using analytical boundary element integrals and their partial derivatives. Engineering Analysis With Boundary Elements, 2010, 34, 876-883.	3.7	30
36	3D reconstruction of single rising bubble in water using digital image processing and characteristic matrix. Particuology, 2013, 11, 170-183.	3.6	30

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37	A spatially adaptive total variation regularization method for electrical resistance tomography. Measurement Science and Technology, 2015, 26, 125401.	2.6	30
38	Horizontal oil–water two-phase flow measurement with information fusion of conductance ring sensor and cone meter. Flow Measurement and Instrumentation, 2013, 34, 83-90.	2.0	28
39	Mass Flow Rate Measurement of Oil-Water Two-Phase Flow by a Long-Waist Cone Meter. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 2795-2804.	4.7	28
40	Electricity generation from banana peels in an alkaline fuel cell with a Cu_2O-Cu modified activated carbon cathode. Science of the Total Environment, 2018, 631-632, 849-856.	8.0	28
41	3-D Hemorrhage Imaging by Cambered Magnetic Induction Tomography. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 2460-2468.	4.7	27
42	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
43	A Lagrange-Newton Method for EIT/UT Dual-Modality Image Reconstruction. Sensors, 2019, 19, 1966.	3.8	26
44	A Conductance Ring Coupled Cone Meter for Oil-Water Two-Phase Flow Measurement. IEEE Sensors Journal, 2014, 14, 1244-1252.	4.7	25
45	Flow rate measurement of oil-gas-water wavy flow through a combined electrical and ultrasonic sensor. Chemical Engineering Journal, 2022, 427, 131982.	12.7	24
46	Development of Single Drive Electrode Electrical Resistance Tomography System. IEEE Transactions on Instrumentation and Measurement, 2006, 55, 1208-1214.	4.7	22
47	Oil–water two-phase flow pattern analysis with ERT based measurement and multivariate maximum Lyapunov exponent. Journal of Central South University, 2016, 23, 240-248.	3.0	22
48	Gas–Liquid Flow Pattern Analysis Based on Graph Connectivity and Graph-Variate Dynamic Connectivity of ERT. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 1590-1601.	4.7	22
49	A fast sparse reconstruction algorithm for electrical tomography. Measurement Science and Technology, 2014, 25, 085401.	2.6	21
50	Reconstruction of the three-dimensional inclusion shapes using electrical capacitance tomography. Measurement Science and Technology, 2014, 25, 025403.	2.6	21
51	An extended L-curve method for choosing a regularization parameter in electrical resistance tomography. Measurement Science and Technology, 2016, 27, 114002.	2.6	21
52	A Shape-Based Statistical Inversion Method for EIT/URT Dual-Modality Imaging. IEEE Transactions on Image Processing, 2020, 29, 4099-4113.	9.8	21
53	Nonstationary Image Reconstruction in Ultrasonic Transmission Tomography Using Kalman Filter and Dimension Reduction. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-12.	4.7	20
54	Landweber Iterative Image Reconstruction Method Incorporated Deep Learning for Electrical Resistance Tomography. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	4.7	20

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55	Oil–water two-phase flow measurement with combined ultrasonic transducer and electrical sensors. Measurement Science and Technology, 2016, 27, 125307.	2.6	19
56	Multi-frequency difference method for intracranial hemorrhage detection by magnetic induction tomography. Physiological Measurement, 2018, 39, 055006.	2.1	19
57	Doppler spectrum analysis and flow pattern identification of oil-water two-phase flow using dual-modality sensor. Flow Measurement and Instrumentation, 2021, 77, 101861.	2.0	19
58	RCRC: A Deep Neural Network for Dynamic Image Reconstruction of Electrical Impedance Tomography. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	4.7	19
59	Experimental and numerical design of a long-waist cone flow meter. Sensors and Actuators A: Physical, 2013, 199, 9-17.	4.1	18
60	Horizontal oil-water two-phase dispersed flow velocity profile study by ultrasonic doppler method. Experimental Thermal and Fluid Science, 2019, 102, 357-367.	2.7	18
61	Response of the excitation condition to electromagnetic tomography. Flow Measurement and Instrumentation, 2013, 31, 10-18.	2.0	17
62	Reconstructing the geometric configuration of three dimensional interface using electrical capacitance tomography. International Journal for Numerical Methods in Engineering, 2013, 96, 628-644.	2.8	17
63	Continuous Wave Ultrasonic Doppler Modeling for Oil–Gas–Water Three-Phase Flow Velocity Measurement. IEEE Sensors Journal, 2018, 18, 3703-3713.	4.7	17
64	Using Time-Series Videos to Quantify Methane Bubbles Flux from Natural Cold Seeps in the South China Sea. Minerals (Basel, Switzerland), 2020, 10, 216.	2.0	17
65	Separation of Gas–Liquid Two-Phase Flow Through Independent Component Analysis. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 1294-1302.	4.7	16
66	Modification to mass flow rate correlation in oil–water two-phase flow by a V-cone flow meter in consideration of the oil–water viscosity ratio. Measurement Science and Technology, 2010, 21, 045403.	2.6	16
67	An $L_q–L_p$ optimization framework for image reconstruction of electrical resistance tomography. Measurement Science and Technology, 2014, 25, 125402.	2.6	16
68	Effect of inter-tissue inductive coupling on multi-frequency imaging of intracranial hemorrhage by magnetic induction tomography. Measurement Science and Technology, 2017, 28, 084001.	2.6	16
69	Structural Velocity Measurement of Gas–Liquid Slug Flow Based on EMD of Continuous Wave Ultrasonic Doppler. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 2662-2675.	4.7	16
70	A Bilateral Constrained Image Reconstruction Method Using Electrical Impedance Tomography and Ultrasonic Measurement. IEEE Sensors Journal, 2019, 19, 9883-9895.	4.7	16
71	Nonlinear Ultrasonic Transmissive Tomography for Low-Contrast Biphasic Medium Imaging Using Continuous-Wave Excitation. IEEE Transactions on Industrial Electronics, 2020, 67, 8878-8888.	7.9	16
72	Parameters Measurement for Multiphase Flow Process. Zidonghua Xuebao/Acta Automatica Sinica, 2013, 39, 1923.	0.3	16

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73	On-Line Monitoring of Nonaxisymmetric Flow Profile With a Multielectrode Inductance Flowmeter. IEEE Transactions on Instrumentation and Measurement, 2004, 53, 1321-1326.	4.7	15
74	Dimensionality reduced simultaneous iterative reconstruction technique for electrical resistance tomography. Flow Measurement and Instrumentation, 2015, 46, 284-291.	2.0	15
75	Real-Time Reconstruction for Low Contrast Ultrasonic Tomography Using Continuous-Wave Excitation. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 1632-1642.	4.7	15
76	Mechanism modeling for phase fraction measurement with ultrasound attenuation in oil–water two-phase flow. Measurement Science and Technology, 2017, 28, 035304.	2.6	14
77	Design of current source for multi-frequency simultaneous electrical impedance tomography. Review of Scientific Instruments, 2017, 88, 094709.	1.3	14
78	Optimization of Dual Frequency-Difference MIT Sensor Array Based on Sensitivity and Resolution Analysis. IEEE Access, 2018, 6, 34911-34920.	4.2	14
79	A Transformation-Domain Image Reconstruction Method for Open Electrical Impedance Tomography Based on Conformal Mapping. IEEE Sensors Journal, 2019, 19, 1873-1883.	4.7	14
80	Image features extraction of gas/liquid two-phase flow in horizontal pipeline by GLCM and GLGCM. , 2009, , .		13
81	An Electrical and Ultrasonic Doppler System for Industrial Multiphase Flow Measurement. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13.	4.7	13
82	Multiscaled Texture Synthesis Using Multisized Pixel Neighborhoods. IEEE Computer Graphics and Applications, 2007, 27, 41-47.	1.2	12
83	Determining the boundary of inclusions with known conductivities using a Levenberg–Marquardt algorithm by electrical resistance tomography. Measurement Science and Technology, 2011, 22, 104005.	2.6	12
84	A modified L-curve method for choosing regularization parameter in electrical resistance tomography. , 2015, , .		12
85	Electrical Resistance Tomography Image Reconstruction Based on Modified OMP Algorithm. IEEE Sensors Journal, 2019, 19, 5723-5731.	4.7	12
86	A Modular Magnetic Induction Tomography System for Low-Conductivity Medium Imaging. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-8.	4.7	12
87	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
88	Roadmap on signal processing for next generation measurement systems. Measurement Science and Technology, 2022, 33, 012002.	2.6	12
89	Ultrasound guided electrical impedance tomography for 2D free-interface reconstruction. Measurement Science and Technology, 2017, 28, 074003.	2.6	11
90	Tomographic Wire-Mesh Imaging of Water-Air Flow Based on Sparse Minimization. IEEE Sensors Journal, 2017, 17, 8187-8195.	4.7	11

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91	An FPGA-Based Multifrequency EIT System With Reference Signal Measurement. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	4.7	11
92	Three-Dimensional Reconstruction of Dilute Bubbly Flow Field With Light-Field Images Based on Deep Learning Method. IEEE Sensors Journal, 2021, 21, 13417-13429.	4.7	11
93	Characterizing the correlations between local phase fractions of gas–liquid two-phase flow with wire-mesh sensor. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150335.	3.4	10
94	An on-line adaptive estimation method for water holdup measurement in oil–water two-phase flow with a conductance/capacitance sensor. Measurement Science and Technology, 2016, 27, 074001.	2.6	10
95	Measurement of oil fraction in oil-water dispersed flow with swept-frequency ultrasound attenuation method. International Journal of Multiphase Flow, 2020, 133, 103444.	3.4	10
96	Combined Planar Magnetic Induction Tomography for Local Detection of Intracranial Hemorrhage. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	4.7	10
97	Flow Regimes Identification-based Multidomain Features for Gas–Liquid Two-Phase Flow in Horizontal Pipe. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	4.7	10
98	Conductance probe for the measurement of liquid volume fraction and axial velocity in gas-liquid two phase flow. , 2009, , .		9
99	Independent component analysis of interface fluctuation of gas/liquid two-phase flows – experimental study. Flow Measurement and Instrumentation, 2009, 20, 220-229.	2.0	9
100	Wide Angle Ultrasonic Transmission Tomography by Sparse Preimaged OMP Algorithm. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 6262-6270.	4.7	9
101	Flow status identification based on multiple slow feature analysis of gas–liquid two-phase flow in horizontal pipes. Measurement Science and Technology, 2021, 32, 055301.	2.6	9
102	Galerkin boundary element method for the forward problem of ERT. Flow Measurement and Instrumentation, 2010, 21, 172-177.	2.0	8
103	Improved Correlation for the Volume of Bubble Formed in Air-Water System. Chinese Journal of Chemical Engineering, 2011, 19, 529-532.	3.5	8
104	Analysis of constant-current characteristics for current sources. , 2012, , .		8
105	Reconstructing the Phase Distribution Within an Annular Channel by Electrical Resistance Tomography. Heat Transfer Engineering, 2015, 36, 1053-1064.	1.9	8
106	An image reconstruction framework based on boundary voltages for ultrasound modulated electrical impedance tomography. Measurement Science and Technology, 2016, 27, 114003.	2.6	8
107	Linearized image reconstruction method for ultrasound modulated electrical impedance tomography based on power density distribution. Measurement Science and Technology, 2017, 28, 045404.	2.6	8
108	Tissue Acoustoelectric Effect Modeling From Solid Mechanics Theory. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2017, 64, 1583-1590.	3.0	8

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109	Local characteristic of horizontal air–water two-phase flow by wire-mesh sensor. Transactions of the Institute of Measurement and Control, 2018, 40, 746-761.	1.7	8
110	Focusing Sensor Design for Open Electrical Impedance Tomography Based on Shape Conformal Transformation. Sensors, 2019, 19, 2060.	3.8	8
111	Dual-Modality Tomography by ERT and UTT Projection Sorting Algorithm. IEEE Sensors Journal, 2020, 20, 5415-5423.	4.7	8
112	Horizontal oil-water two-phase flow characterization and identification with pulse-wave ultrasonic Doppler technique. Chemical Engineering Science, 2021, 246, 117015.	3.8	8
113	Gas/liquid two-phase flow regime identification in horizontal pipe using support vector machines. , 2005, , .		7
114	Two-Phase Flow Measurement by Dual-Plane Ert System with Drift-Flux Model and Cross Correlation Thechnique. , 2006, , .		7
115	Gas-water two-phase flow regime identification with feature fusion from an ERT system and a V-cone meter. , 2009, , .		7
116	A boundary element approach to estimate the free surface in stratified two-phase flow. Measurement Science and Technology, 2012, 23, 105401.	2.6	7
117	Nano Copper Oxide-Modified Carbon Cloth as Cathode for a Two-Chamber Microbial Fuel Cell. Nanomaterials, 2016, 6, 238.	4.1	7
118	Analysis of response for magnetic induction tomography with internal source. Measurement: Journal of the International Measurement Confederation, 2016, 78, 260-277.	5.0	7
119	Bubble-Forming Regime Identification Based on Image Textural Features and the MCWA Feature Selection Method. IEEE Access, 2017, 5, 15820-15830.	4.2	7
120	Sensitivity Comparison of a Cambered Magnetic Induction Tomography for Local Hemorrhage Detection. , 2018, , .		7
121	Continuous-wave ultrasonic tomography for oil/water two-phase flow imaging using regularized weighted least square framework. Transactions of the Institute of Measurement and Control, 2020, 42, 666-679.	1.7	7
122	A Point Constrained Boundary Reconstruction Framework for Ultrasound Guided Electrical Impedance Tomography. IEEE Transactions on Computational Imaging, 2020, 6, 1336-1350.	4.4	7
123	Measurement of Particle Concentration by Multifrequency Ultrasound Attenuation in Liquid–Solid Dispersion. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 843-853.	3.0	7
124	Multifrequency Ultrasonic Tomography for Oil–Gas–Water Three-Phase Distribution Imaging Using Transmissive Attenuation Spectrum. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	4.7	7
125	Coplanar electrical/ultrasonic dual-modality tomography for water continuous gas/oil/water three-phase distribution imaging. Measurement Science and Technology, 2021, 32, 124004.	2.6	7
126	Application of electrical resistance tomography for slug flow measurement in gas/liquid flow of horizontal pipe. , 2009, , .		6

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127	Cross correlation velocity of oil-water two-phase flow by a Dual-plane Electrical Resistance Tomography system. , 2010, , .		6
128	An adaptive local weighted image reconstruction algorithm for EIT/UTT dual-modality imaging. , 2017, , .		6
129	An augmented Lagrangian trust region method for inclusion boundary reconstruction using ultrasound/electrical dual-modality tomography. Measurement Science and Technology, 2018, 29, 074008.	2.6	6
130	A new regularization algorithm based on the neighborhood method for electrical impedance tomography. Measurement Science and Technology, 2018, 29, 085401.	2.6	6
131	A Fast Inclusion Boundary Reconstruction Framework for Electrical Impedance Tomography With Parametric Snake Model. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 7606-7616.	4.7	6
132	Feature Extraction Method for Gas/Liquid Two-Phase Flow Based on Wavelets Transform. , 2006, , .		5
133	Flowrate Measurement with Characteristic Value Cross-Correlation by Ert in Two-Phase Vertical Pipe Flows. , 2006, , .		5
134	The Study of a 2D Model and Image Reconstruction Algorithms Based on EIT System. , 2006, , .		5
135	Track of rising bubble in bubbling tower based on image processing of high-speed video. , 2008, , .		5
136	An Evaluation Method for Reconstructed Images in Electrical Tomography. , 2008, , .		5
137	An analysis of EEG when acupuncture with wavelet entropy. , 2008, 2008, 1108-11.		5
138	Reconstruction of rising bubble with digital image processing method. , 2011, , .		5
139	Brain tissue based sensitivity matrix in hemorrhage imaging by magnetic induction tomography. , 2017, , .		5
140	Gas-water two-phase flow pattern recognition based on ERT and ultrasound Doppler. , 2018, , .		5
141	A fast iterative updated thresholding algorithm with sparsity constrains for electrical resistance tomography. Measurement Science and Technology, 2019, 30, 074001.	2.6	5
142	Piecewise constant level-set enhanced active shape reconstruction for electrical impedance tomography. Measurement: Journal of the International Measurement Confederation, 2021, 177, 109335.	5.0	5
143	Flow state monitoring of gas-water two-phase flow using multi-Gaussian mixture model based on canonical variate analysis. Flow Measurement and Instrumentation, 2021, 79, 101904.	2.0	5
144	Computational Focusing Sensor: Enhancing Spatial Resolution of Electrical Impedance Tomography in Region of Interest. IEEE Sensors Journal, 2021, 21, 19101-19111.	4.7	5

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145	Oil Fraction Measurement of Nonuniform Dispersed Oilâ€"Water Two-Phase Flow Based on Ultrasonic Attenuation. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13.	4.7	5
146	Intracranial Hemorrhage Detection by Open MIT Sensor Array. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-11.	4.7	5
147	Phase fraction measurement of oilâ€"gasâ€"water three-phase flow with stratified gas by ultrasound technique. Measurement Science and Technology, 2022, 33, 075302.	2.6	5
148	Electrical resistance tomography based on the single drive electrode method. , 0, , .		4
149	Two-Phase Flow Regime Recognition in Horizontal Pipe Based on Positional Information of Measured Data of ERT. Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2006, , .	0.0	4
150	An Image Reconstruction Algorithm Based on Regularization Optimization for Process Tomography. , 2007, , .		4
151	Optimization Design of Electrical Resistance Tomography Data Acquisition System. , 2007, , .		4
152	Bifurcation Analysis of the Hodgkin-Huxley Model Exposed to External DC Electric Field. , 2007, , .		4
153	Mass flow rate measurement of Gas/liquid two-phase flow in horizontal pipe based on V-cone flow meter and adaptive wavelet network. , 2009, , .		4
154	A harmonic signal generator based on DDS and SOPC. , 2010, , .		4
155	Cyclostationarity in electrical resistance tomography data from gas/liquid two-phase flow. , 2010, , .		4
156	Data acquisition system based on CompactPCI bus and FPGA for electrical resistance tomography. , 2011, , .		4
157	High-precision electrical resistance tomography with external and internal electrode arrays. , 2011, , .		4
158	Data fusion for measurement of water holdup in horizontal pipes by conductivity rings. , 2011, , .		4
159	Dual-modality data acquisition system based on CPCI industrial computer. , 2012, , .		4
160	Application of PLC for arranging bottle in Beer filling production line. , 2012, , .		4
161	An Instrumental Electrode Configuration for 3-D Ultrasound Modulated Electrical Impedance Tomography. IEEE Sensors Journal, 2017, 17, 8206-8214.	4.7	4
162	Method of Tikhonov regularization for weighted frequency-difference electrical impedance tomography. , 2017, , .		4

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163	Velocity measurement of oil-water two-phase flow based on Ultrasonic Doppler. , 2017, , .		4
164	Difference sensitivity matrix constructed for ultrasound modulated electrical resistance tomography. Measurement Science and Technology, 2018, 29, 104005.	2.6	4
165	Fault Diagnosis of Reciprocating Compressor Using Component Estimating Empirical Mode Decomposition and De-Dimension Template With Double-Loop Correction Algorithm. IEEE Access, 2019, 7, 90630-90639.	4.2	4
166	Particle Size Characterization in Liquidâ€"Solid Dispersion With Aggregates by Broadband Ultrasound Attenuation. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	4.7	4
167	Multifrequency Weighted Difference Magnetic Induction Tomography for Intracranial Hemorrhage Detection. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-9.	4.7	4
168	Multi-frequency ultrasound tomography based on modified matrix regularization method and wavelet fusion. Measurement Science and Technology, 2022, 33, 084008.	2.6	4
169	Application of electrical resistance tomography to identification two-phase flow regime. , 0, , .		3
170	A novel ERT system based on DSP and CPLD. , 2005, , .		3
171	Void Fraction Measurement for Two-Phase Flow Using Electrical Resistance Tomography. Canadian Journal of Chemical Engineering, 2005, 83, 19-23.	1.7	3
172	Cross-section system and V-cone meter fusion in plug flow measurement. , 2009, , .		3
173	Gas-Water Two-Phase Flow Regime Recognition with Data and Feature Fusion from a Dual-Plane ERT System. , 2009, , .		3
174	Characteristic Analysis of Gas/Liquid Two-Phase Flow Regimes Based on Wavelet Packet Entropy. , 2010, , .		3
175	A measurement method of slug flow velocity of gas-liquid two-phase flow in horizontal pipe. , 2010, , .		3
176	A method of measuring two phase flow based on segmented capacitance electrodes. , 2011, , .		3
177	Electrical resistance tomography system based on CompactPCI for multiphase flow measurement. , 2011, , .		3
178	An adaptive total variation regularization method for electrical resistance tomography. , 2013, , .		3
179	Performance evaluation and structure optimization of an inner-outer electrical resistance tomography sensor. , 2014, , .		3
180	A wire-mesh sensor for air-water two-phase flow imaging. , 2015, , .		3

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181	Flow velocity measurement based on ultrasonic cross-correlation technique in oil-water two-phase flow. , 2016, , .		3
182	Sensitivity matrix for ultrasound modulated electrical impedance tomography. , 2016, , .		3
183	Energy extraction from seaweed under low temperatures by using an alkaline fuel cell. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2018, 40, 2107-2115.	2.3	3
184	Influencing factors on abdomen lesion detection using electrical impedance tomography. , 2018, , .		3
185	Amplitude Modulation Method for Acoustic Radiation Force Impulse Excitation. , 2019, , .		3
186	Design of Ultrasonic Tomography System for Biomedical Imaging. , 2019, , .		3
187	Image Reconstruction Based on Regularized Weighted Least Square Framework for Low-Contrast Ultrasonic Tomography. , 2019, , .		3
188	An FPGA-based multi-frequency EIT system with reference signal measurement. , 2020, , .		3
189	Absolute reconstruction of Ultrasonic Tomography for oil-water biphasic medium imaging using modified ray-tracing technique. Measurement: Sensors, 2020, 7-9, 100023.	1.7	3
190	Amplitude Modulation Method for Acoustic Radiation Force Impulse Excitation. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 2429-2438.	4.7	3
191	Planar MIT Sensor Array with Gradiometers for Local Hemorrhage Detection. , 2021, , .		3
192	Sequential Dynamic Aperture Focusing Strategy for Transmissive Ultrasonic Phase Array Tomography. IEEE Transactions on Industrial Electronics, 2022, 69, 13706-13715.	7.9	3
193	Two methods for measurement of gas-liquid flows in vertical upward pipe using dual-plane ERT system. , 0, , .		2
194	Realization of image reconstruction algorithms for ERT based on single drive electrode method. , 2005, , .		2
195	Optimization Design on Sensing Field of Electromagnetic Tomography. , 2006, , .		2
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