# Feng Dong

## List of Publications by Year in Descending Order

**Source:** https://exaly.com/author-pdf/6452844/feng-dong-publications-by-year.pdf
**Version:** 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

| | | | |
|---|---|---|---|
| 246 papers | 2,272 citations | 25 h-index | 36 g-index |
| 351 ext. papers | 2,920 ext. citations | 3.3 avg, IF | 5.82 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 246 | Sequential Dynamic Aperture Focusing Strategy for Transmissive Ultrasonic Phase Array Tomography. *IEEE Transactions on Industrial Electronics*, **2022**, 1-1 | 8.9 | 2 |
| 245 | Intracranial Hemorrhage Detection by Open MIT Sensor Array. *IEEE Transactions on Instrumentation and Measurement*, **2022**, 1-1 | 5.2 | 1 |
| 244 | Roadmap on signal processing for next generation measurement systems. *Measurement Science and Technology*, **2022**, 33, 012002 | 2 | 0 |
| 243 | Flow rate measurement of oil-gas-water wavy flow through a combined electrical and ultrasonic sensor. *Chemical Engineering Journal*, **2022**, 427, 131982 | 14.7 | 5 |
| 242 | Oil–Water Two-Phase Flow Volume Fraction Measurement Based on Nonlinear Ultrasound Technique. *IEEE Transactions on Instrumentation and Measurement*, **2022**, 71, 1-9 | 5.2 | 0 |
| 241 | 3-D Reconstruction of Bubble Flow Field Based on the Method of Multivision by Rough-Precise Location Algebraic Reconstruction Technique. *IEEE Transactions on Instrumentation and Measurement*, **2022**, 71, 1-11 | 5.2 | |
| 240 | Tomographic pulse wave ultrasonic Doppler method for cross-sectional velocity distribution imaging of dispersed oil-water two-phase flow. *Experiments in Fluids*, **2022**, 63, 1 | 2.5 | |
| 239 | Applications of tomography in multiphase transportation **2022**, 625-646 | | |
| 238 | Multifrequency Weighted Difference Magnetic Induction Tomography for Intracranial Hemorrhage Detection. *IEEE Transactions on Instrumentation and Measurement*, **2021**, 1-1 | 5.2 | 1 |
| 237 | Finite-Element Modeling of Tissue Responses to Focused Ultrasound with Different Intensities. *IEEE Transactions on Instrumentation and Measurement*, **2021**, 1-1 | 5.2 | |
| 236 | Multi-frequency fusion ultrasonic tomography for gas–liquid two-phase distribution imaging. *Measurement Science and Technology*, **2021**, 32, 024005 | 2 | 1 |
| 235 | 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 | 2 |
| 234 | Quantitative Sound Velocity Reconstruction Based on Ultrasonic Tomography **2021**, | | 1 |
| 233 | Planar MIT Sensor Array with Gradiometers for Local Hemorrhage Detection **2021**, | | 2 |
| 232 | Generative Data Augmentation for Learning-based Electrical Impedance Tomography via Variational Autoencoder **2021**, | | 1 |
| 231 | Finite-Element Modeling of Biological Tissue Response to Focused Ultrasound with Different Intensity **2021**, | | 1 |
| 230 | Piecewise constant level-set enhanced active shape reconstruction for electrical impedance tomography. *Measurement: Journal of the International Measurement Confederation*, **2021**, 177, 109335 | 4.6 | 2 |

| | | | |
|---|---|---|---|
| 229 | 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 | 2.2 | 0 |
| 228 | 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 | 1 |
| 227 | Multi-objective optimization design of cement grate cooler control system based on improved long short-term memory network. *Transactions of the Institute of Measurement and Control*, **2021**, 43, 3399-3412 | 1.8 | 0 |
| 226 | An FPGA-Based Multifrequency EIT System With Reference Signal Measurement. *IEEE Transactions on Instrumentation and Measurement*, **2021**, 70, 1-10 | 5.2 | 4 |
| 225 | An Electrical and Ultrasonic Doppler System for Industrial Multiphase Flow Measurement. *IEEE Transactions on Instrumentation and Measurement*, **2021**, 70, 1-13 | 5.2 | 9 |
| 224 | Doppler spectrum analysis and flow pattern identification of oil-water two-phase flow using dual-modality sensor. *Flow Measurement and Instrumentation*, **2021**, 77, 101861 | 2.2 | 7 |
| 223 | Nonstationary Image Reconstruction in Ultrasonic Transmission Tomography Using Kalman Filter and Dimension Reduction. *IEEE Transactions on Instrumentation and Measurement*, **2021**, 70, 1-12 | 5.2 | 11 |
| 222 | . *IEEE Sensors Journal*, **2021**, 21, 12913-12925 | 4 | 15 |
| 221 | Landweber Iterative Image Reconstruction Method Incorporated Deep Learning for Electrical Resistance Tomography. *IEEE Transactions on Instrumentation and Measurement*, **2021**, 70, 1-11 | 5.2 | 12 |
| 220 | Electrical Resistance Tomography Image Reconstruction With Densely Connected Convolutional Neural Network. *IEEE Transactions on Instrumentation and Measurement*, **2021**, 70, 1-11 | 5.2 | 16 |
| 219 | Combined Planar Magnetic Induction Tomography for Local Detection of Intracranial Hemorrhage. *IEEE Transactions on Instrumentation and Measurement*, **2021**, 70, 1-11 | 5.2 | 7 |
| 218 | Measurement of Particle Concentration by Multifrequency Ultrasound Attenuation in Liquid-Solid Dispersion. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2021**, 68, 843-853 | 3.2 | 2 |
| 217 | Flow Regimes Identification-based Multidomain Features for Gas–liquid Two-Phase Flow in Horizontal Pipe. *IEEE Transactions on Instrumentation and Measurement*, **2021**, 1-1 | 5.2 | 1 |
| 216 | Ultrasound Phase Array Tomography for Biphasic Medium Distribution Imaging Using Synthetic Aperture Beam Scanning. *IEEE Transactions on Instrumentation and Measurement*, **2021**, 70, 1-12 | 5.2 | 2 |
| 215 | RCRC: A Deep Neural Network for Dynamic Image Reconstruction of Electrical Impedance Tomography. *IEEE Transactions on Instrumentation and Measurement*, **2021**, 70, 1-11 | 5.2 | 7 |
| 214 | A Modular Magnetic Induction Tomography System for Low-Conductivity Medium Imaging. *IEEE Transactions on Instrumentation and Measurement*, **2021**, 70, 1-8 | 5.2 | 5 |
| 213 | . *IEEE Transactions on Instrumentation and Measurement*, **2021**, 70, 1-11 | 5.2 | 2 |
| 212 | 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 | 5.2 | 3 |

| | | | |
|---|---|---|---|
| 211 | Gas-Liquid Two-Phase Stratified Flow Interface Reconstruction With Sparse Batch Normalization Convolutional Neural Network. *IEEE Sensors Journal*, **2021**, 21, 17076-17084 | 4 | 4 |
| 210 | Coplanar electrical/ultrasonic dual-modality tomography for water continuous gas/oil/water three-phase distribution imaging. *Measurement Science and Technology*, **2021**, 32, 124004 | 2 | 1 |
| 209 | Computational Focusing Sensor: Enhancing Spatial Resolution of Electrical Impedance Tomography in Region of Interest. *IEEE Sensors Journal*, **2021**, 21, 19101-19111 | 4 | 1 |
| 208 | Ultrasonic Doppler Technique for Application to Multiphase Flows: A Review. *International Journal of Multiphase Flow*, **2021**, 144, 103811 | 3.6 | 19 |
| 207 | Horizontal oil-water two-phase flow characterization and identification with pulse-wave ultrasonic Doppler technique. *Chemical Engineering Science*, **2021**, 246, 117015 | 4.4 | 1 |
| 206 | Oil Fraction Measurement of Nonuniform Dispersed Oil–Water Two-Phase Flow Based on Ultrasonic Attenuation. *IEEE Transactions on Instrumentation and Measurement*, **2021**, 1-1 | 5.2 | 3 |
| 205 | Absolute reconstruction of Ultrasonic Tomography for oil-water biphasic medium imaging using modified ray-tracing technique. *Measurement: Sensors*, **2020**, 7-9, 100023 | 0.5 | 2 |
| 204 | A Fast Inclusion Boundary Reconstruction Framework for Electrical Impedance Tomography With Parametric Snake Model. *IEEE Transactions on Instrumentation and Measurement*, **2020**, 69, 7606-7616 | 5.2 | 5 |
| 203 | Dual-Modality Tomography by ERT and UTT Projection Sorting Algorithm. *IEEE Sensors Journal*, **2020**, 20, 5415-5423 | 4 | 5 |
| 202 | Wide Angle Ultrasonic Transmission Tomography by Sparse Preimaged OMP Algorithm. *IEEE Transactions on Instrumentation and Measurement*, **2020**, 69, 6262-6270 | 5.2 | 6 |
| 201 | Amplitude Modulation Method for Acoustic Radiation Force Impulse Excitation. *IEEE Transactions on Instrumentation and Measurement*, **2020**, 69, 2429-2438 | 5.2 | 1 |
| 200 | Using Time-Series Videos to Quantify Methane Bubbles Flux from Natural Cold Seeps in the South China Sea. *Minerals (Basel, Switzerland)*, **2020**, 10, 216 | 2.4 | 7 |
| 199 | A Shape-Based Statistical Inversion Method for EIT/URT Dual-Modality Imaging. *IEEE Transactions on Image Processing*, **2020**, | 8.7 | 10 |
| 198 | V-Net Deep Imaging Method for Electrical Resistance Tomography. *IEEE Sensors Journal*, **2020**, 20, 6460-6469 | 4 | 20 |
| 197 | Correction to "A Two-Stage Deep Learning Method for Robust Shape Reconstruction With Electrical Impedance Tomography" [Jul 20 4887-4897]. *IEEE Transactions on Instrumentation and Measurement*, **2020**, 69, 9284-9284 | 5.2 | |
| 196 | Nonlinear Ultrasonic Transmissive Tomography for Low-Contrast Biphasic Medium Imaging Using Continuous-Wave Excitation. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 8878-8888 | 8.9 | 11 |
| 195 | A Two-Stage Deep Learning Method for Robust Shape Reconstruction With Electrical Impedance Tomography. *IEEE Transactions on Instrumentation and Measurement*, **2020**, 69, 4887-4897 | 5.2 | 52 |
| 194 | An FPGA-based multi-frequency EIT system with reference signal measurement **2020**, | | 3 |

| | | | |
|---|---|---|---|
| 193 | An Inclusion Boundary and Conductivity Simultaneous Estimation Method for Ultrasound Reflection Guided Electrical Impedance Tomography. *IEEE Sensors Journal*, **2020**, 20, 11578-11587 | 4 | |
| 192 | Measurement of oil fraction in oil-water dispersed flow with swept-frequency ultrasound attenuation method. *International Journal of Multiphase Flow*, **2020**, 133, 103444 | 3.6 | 7 |
| 191 | A Point Constrained Boundary Reconstruction Framework for Ultrasound Guided Electrical Impedance Tomography. *IEEE Transactions on Computational Imaging*, **2020**, 6, 1336-1350 | 4.5 | 4 |
| 190 | A Wideband Electrical Impedance Tomography System Based on Sensitive Bioimpedance Spectrum Bandwidth. *IEEE Transactions on Instrumentation and Measurement*, **2020**, 69, 144-154 | 5.2 | 27 |
| 189 | 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 | 1.8 | 3 |
| 188 | Real-Time Reconstruction for Low Contrast Ultrasonic Tomography Using Continuous-Wave Excitation. *IEEE Transactions on Instrumentation and Measurement*, **2020**, 69, 1632-1642 | 5.2 | 10 |
| 187 | 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 | 3.5 | 1 |
| 186 | Focusing Sensor Design for Open Electrical Impedance Tomography Based on Shape Conformal Transformation. *Sensors*, **2019**, 19, | 3.8 | 6 |
| 185 | A Lagrange-Newton Method for EIT/UT Dual-Modality Image Reconstruction. *Sensors*, **2019**, 19, | 3.8 | 18 |
| 184 | Electrical Resistance Tomography Image Reconstruction Based on Modified OMP Algorithm. *IEEE Sensors Journal*, **2019**, 19, 5723-5731 | 4 | 7 |
| 183 | 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 | 5.2 | 12 |
| 182 | A fast iterative updated thresholding algorithm with sparsity constrains for electrical resistance tomography. *Measurement Science and Technology*, **2019**, 30, 074001 | 2 | 1 |
| 181 | 3-D Hemorrhage Imaging by Cambered Magnetic Induction Tomography. *IEEE Transactions on Instrumentation and Measurement*, **2019**, 68, 2460-2468 | 5.2 | 13 |
| 180 | A Robust Inclusion Boundary Reconstructor for Electrical Impedance Tomography With Geometric Constraints. *IEEE Transactions on Instrumentation and Measurement*, **2019**, 68, 762-773 | 5.2 | 38 |
| 179 | A Bilateral Constrained Image Reconstruction Method Using Electrical Impedance Tomography and Ultrasonic Measurement. *IEEE Sensors Journal*, **2019**, 19, 9883-9895 | 4 | 11 |
| 178 | A Statistical Shape-Constrained Reconstruction Framework for Electrical Impedance Tomography. *IEEE Transactions on Medical Imaging*, **2019**, 38, 2400-2410 | 11.7 | 34 |
| 177 | An Ultrasonic Transmission/Reflection Tomography System for Industrial Multiphase Flow Imaging. *IEEE Transactions on Industrial Electronics*, **2019**, 66, 9539-9548 | 8.9 | 39 |
| 176 | Amplitude Modulation Method for Acoustic Radiation Force Impulse Excitation **2019**, | | 2 |

| | | | |
|---|---|---|---|
| 175 | Design of Ultrasonic Tomography System for Biomedical Imaging **2019**, | | 3 |
| 174 | Image Reconstruction Based on Regularized Weighted Least Square Framework for Low-Contrast Ultrasonic Tomography **2019**, | | 2 |
| 173 | Horizontal oil-water two-phase dispersed flow velocity profile study by ultrasonic doppler method. *Experimental Thermal and Fluid Science*, **2019**, 102, 357-367 | 3 | 10 |
| 172 | Oil-gas-water three-phase flow characterization and velocity measurement based on time-frequency decomposition. *International Journal of Multiphase Flow*, **2019**, 111, 219-231 | 3.6 | 21 |
| 171 | Image Reconstruction Based on Convolutional Neural Network for Electrical Resistance Tomography. *IEEE Sensors Journal*, **2019**, 19, 196-204 | 4 | 103 |
| 170 | A Transformation-Domain Image Reconstruction Method for Open Electrical Impedance Tomography Based on Conformal Mapping. *IEEE Sensors Journal*, **2019**, 19, 1873-1883 | 4 | 9 |
| 169 | Electricity generation from banana peels in an alkaline fuel cell with a CuO-Cu modified activated carbon cathode. *Science of the Total Environment*, **2018**, 631-632, 849-856 | 10.2 | 20 |
| 168 | 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 | 5.2 | 24 |
| 167 | Multi-frequency difference method for intracranial hemorrhage detection by magnetic induction tomography. *Physiological Measurement*, **2018**, 39, 055006 | 2.9 | 11 |
| 166 | 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 | 5.2 | 12 |
| 165 | Measurement of Oil–Water Two-Phase Flow Phase Fraction With Ultrasound Attenuation. *IEEE Sensors Journal*, **2018**, 18, 1150-1159 | 4 | 25 |
| 164 | . *IEEE Sensors Journal*, **2018**, 18, 3703-3713 | 4 | 13 |
| 163 | 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 | 1.8 | 6 |
| 162 | Inclusion boundary reconstruction and sensitivity analysis in electrical impedance tomography. *Inverse Problems in Science and Engineering*, **2018**, 26, 1037-1061 | 1.3 | 32 |
| 161 | A complete sensor model for miniscopic electrical impedance tomography **2018**, | | 2 |
| 160 | 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 | 1.6 | 2 |
| 159 | Optimization of Dual Frequency-Difference MIT Sensor Array Based on Sensitivity and Resolution Analysis. *IEEE Access*, **2018**, 6, 34911-34920 | 3.5 | 12 |
| 158 | A new regularization algorithm based on the neighborhood method for electrical impedance tomography. *Measurement Science and Technology*, **2018**, 29, 085401 | 2 | 4 |

| | | | |
|---|---|---|---|
| 157 | Fast photocatalytic degradation of dyes using low-power laser-fabricated CuO-Cu nanocomposites.. *RSC Advances*, **2018**, 8, 20277-20286 | 3.7 | 50 |
| 156 | A fast ERT system modification based on compressed sensing algorithm **2018**, | | 1 |
| 155 | Sensitivity Comparison of a Cambered Magnetic Induction Tomography for Local Hemorrhage Detection **2018**, | | 6 |
| 154 | Oil-water two-phase flow velocity measurement with Continuous wave ultrasonic Doppler. *Journal of Physics: Conference Series*, **2018**, 1065, 092019 | 0.3 | 1 |
| 153 | Difference sensitivity matrix constructed for ultrasound modulated electrical resistance tomography. *Measurement Science and Technology*, **2018**, 29, 104005 | 2 | 2 |
| 152 | Gas-water two-phase flow pattern recognition based on ERT and ultrasound Doppler **2018**, | | 2 |
| 151 | Numerical Analysis of Ultrasound Tomography and Frequency Optimization in Human Abdomen Model **2018**, | | 1 |
| 150 | An augmented Lagrangian trust region method for inclusion boundary reconstruction using ultrasound/electrical dual-modality tomography. *Measurement Science and Technology*, **2018**, 29, 074008 | 2 | 4 |
| 149 | Liquid distribution and hold-up measurement in counter current flow packed column by electrical capacitance tomography. *Chemical Engineering Journal*, **2018**, 353, 519-532 | 14.7 | 16 |
| 148 | Mechanism modeling for phase fraction measurement with ultrasound attenuation in oil/water two-phase flow. *Measurement Science and Technology*, **2017**, 28, 035304 | 2 | 13 |
| 147 | Linearized image reconstruction method for ultrasound modulated electrical impedance tomography based on power density distribution. *Measurement Science and Technology*, **2017**, 28, 045404 | 2 | 8 |
| 146 | Adaptive Kalman Estimation of Phase Holdup of Water-Continuous Oil-Water Two-Phase Flow. *IEEE Access*, **2017**, 5, 3569-3579 | 3.5 | 1 |
| 145 | An Instrumental Electrode Configuration for 3D Ultrasound Modulated Electrical Impedance Tomography. *IEEE Sensors Journal*, **2017**, 17, 8206-8214 | 4 | 4 |
| 144 | Design of current source for multi-frequency simultaneous electrical impedance tomography. *Review of Scientific Instruments*, **2017**, 88, 094709 | 1.7 | 11 |
| 143 | Ultrasound modulated electrical impedance tomography by contrast libraries of measurements variation **2017**, | | 1 |
| 142 | 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 | 8 |
| 141 | Bubble-Forming Regime Identification Based on Image Textural Features and the MCWA Feature Selection Method. *IEEE Access*, **2017**, 5, 15820-15830 | 3.5 | 5 |
| 140 | Method of Tikhonov regularization for weighted frequency-difference electrical impedance tomography **2017**, | | 3 |

| | | | |
|---|---|---|---|
| 139 | An adaptive local weighted image reconstruction algorithm for EIT/UTT dual-modality imaging **2017**, | | 3 |
| 138 | Velocity measurement of oil-water two-phase flow based on Ultrasonic Doppler **2017**, | | 1 |
| 137 | A method of spatially adaptive Lp regularization for electrical tomography **2017**, | | 2 |
| 136 | Numerical and experimental analysis of ultrasound attenuation in oil-water two-phase flow **2017**, | | 1 |
| 135 | Brain tissue based sensitivity matrix in hemorrhage imaging by magnetic induction tomography **2017**, | | 3 |
| 134 | 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 | 5.2 | 29 |
| 133 | Tissue Acoustoelectric Effect Modeling From Solid Mechanics Theory. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2017**, 64, 1583-1590 | 3.2 | 5 |
| 132 | Ultrasound guided electrical impedance tomography for 2D free-interface reconstruction. *Measurement Science and Technology*, **2017**, 28, 074003 | 2 | 9 |
| 131 | Tomographic Wire-Mesh Imaging of Water-Air Flow Based on Sparse Minimization. *IEEE Sensors Journal*, **2017**, 17, 8187-8195 | 4 | 9 |
| 130 | An EIT image segmentation method based on projection distance minimization **2017**, | | 2 |
| 129 | Construction of sensitivity matrix involving location information for ultrasound modulated electrical impedance tomography **2017**, | | 1 |
| 128 | Sensitivity matrix for ultrasound modulated electrical impedance tomography **2016**, | | 2 |
| 127 | Simulation study of electrodes optimization design of power density imaging **2016**, | | 1 |
| 126 | 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 | 5 |
| 125 | An adaptive Tikhonov regularization parameter choice method for electrical resistance tomography. *Flow Measurement and Instrumentation*, **2016**, 50, 1-12 | 2.2 | 26 |
| 124 | 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 | 2.1 | 17 |
| 123 | A dual-band flame detector based on video. *Optik*, **2016**, 127, 478-483 | 2.5 | 2 |
| 122 | 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 | 5.2 | 29 |

| | | | |
|---|---|---|---|
| 121 | Analysis of response for magnetic induction tomography with internal source. *Measurement: Journal of the International Measurement Confederation*, **2016**, 78, 260-277 | 4.6 | 6 |
| 120 | Nano Copper Oxide-Modified Carbon Cloth as Cathode for a Two-Chamber Microbial Fuel Cell. *Nanomaterials*, **2016**, 6, | 5.4 | 6 |
| 119 | An extended L-curve method for choosing a regularization parameter in electrical resistance tomography. *Measurement Science and Technology*, **2016**, 27, 114002 | 2 | 8 |
| 118 | An image reconstruction framework based on boundary voltages for ultrasound modulated electrical impedance tomography. *Measurement Science and Technology*, **2016**, 27, 114003 | 2 | 7 |
| 117 | Oil–water two-phase flow measurement with combined ultrasonic transducer and electrical sensors. *Measurement Science and Technology*, **2016**, 27, 125307 | 2 | 15 |
| 116 | Interface and permittivity simultaneous reconstruction in electrical capacitance tomography based on boundary and finite-elements coupling method. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2016**, 374, | 3 | 2 |
| 115 | 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, | 3 | 8 |
| 114 | A FPGA-based multi-frequency current source for biological EIT system **2016**, | | 1 |
| 113 | Flow velocity measurement based on ultrasonic cross-correlation technique in oil-water two-phase flow **2016**, | | 3 |
| 112 | Reconstructing the Phase Distribution Within an Annular Channel by Electrical Resistance Tomography. *Heat Transfer Engineering*, **2015**, 36, 1053-1064 | 1.7 | 6 |
| 111 | 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 | 2.2 | 40 |
| 110 | Oil–water two-phase flow velocity measurement with continuous wave ultrasound Doppler. *Chemical Engineering Science*, **2015**, 135, 155-165 | 4.4 | 34 |
| 109 | Water continuous oil-water flow velocity measurement based on continuous waves ultrasonic doppler method **2015**, | | 1 |
| 108 | Ultrasound attenuation characteristics in oil-water two-phase flow **2015**, | | 2 |
| 107 | A wire-mesh sensor for air-water two-phase flow imaging **2015**, | | 2 |
| 106 | A hybrid regularization method combining Tikhonov with total variation for electrical resistance tomography. *Flow Measurement and Instrumentation*, **2015**, 46, 268-275 | 2.2 | 27 |
| 105 | Gas-water two-phase flow characterization with Electrical Resistance Tomography and Multivariate Multiscale Entropy analysis. *ISA Transactions*, **2015**, 55, 241-9 | 5.5 | 25 |
| 104 | A spatially adaptive total variation regularization method for electrical resistance tomography. *Measurement Science and Technology*, **2015**, 26, 125401 | 2 | 20 |

| | | | |
|---|---|---|---|
| 103 | Characterization of oil–water two-phase pipe flow with a combined conductivity/capacitance sensor and wavelet analysis. *Chemical Engineering Science*, **2015**, 134, 153-168 | 4.4 | 40 |
| 102 | Sensitivity matrix construction based on ultrasound modulation for electrical resistance tomography **2015**, | | 1 |
| 101 | A modified L-curve method for choosing regularization parameter in electrical resistance tomography **2015**, | | 3 |
| 100 | Measurement of phase fraction in oil-water two-phase flow using ultrasound attenuation method **2015**, | | 1 |
| 99 | Dimensionality reduced simultaneous iterative reconstruction technique for electrical resistance tomography. *Flow Measurement and Instrumentation*, **2015**, 46, 284-291 | 2.2 | 12 |
| 98 | A Kalman estimation based oil–water two-phase flow measurement with CRCC. *International Journal of Multiphase Flow*, **2015**, 72, 306-317 | 3.6 | 26 |
| 97 | Reconstruction of the three-dimensional inclusion shapes using electrical capacitance tomography. *Measurement Science and Technology*, **2014**, 25, 025403 | 2 | 21 |
| 96 | An Lq–lp optimization framework for image reconstruction of electrical resistance tomography. *Measurement Science and Technology*, **2014**, 25, 125402 | 2 | 8 |
| 95 | A fast sparse reconstruction algorithm for electrical tomography. *Measurement Science and Technology*, **2014**, 25, 085401 | 2 | 13 |
| 94 | Performance evaluation and structure optimization of an inner-outer electrical resistance tomography sensor **2014**, | | 2 |
| 93 | A Conductance Ring Coupled Cone Meter for Oil-Water Two-Phase Flow Measurement. *IEEE Sensors Journal*, **2014**, 14, 1244-1252 | 4 | 21 |
| 92 | Fast flow regime recognition method of gas/water two-phase flow based on extreme learning machine **2013**, | | 1 |
| 91 | 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 | 2.2 | 22 |
| 90 | An adaptive total variation regularization method for electrical resistance tomography **2013**, | | 3 |
| 89 | Sparse regularization for small objects imaging with electrical resistance tomography **2013**, | | 1 |
| 88 | Response of the excitation condition to electromagnetic tomography. *Flow Measurement and Instrumentation*, **2013**, 31, 10-18 | 2.2 | 14 |
| 87 | Experimental and numerical design of a long-waist cone flow meter. *Sensors and Actuators A: Physical*, **2013**, 199, 9-17 | 3.9 | 14 |
| 86 | 3D reconstruction of single rising bubble in water using digital image processing and characteristic matrix. *Particuology*, **2013**, 11, 170-183 | 2.8 | 21 |

| | | | |
|---|---|---|---|
| 85 | Reconstructing the geometric configuration of three dimensional interface using electrical capacitance tomography. *International Journal for Numerical Methods in Engineering*, **2013**, 96, 628-644 | 2.4 | 16 |
| 84 | Design and Application of Self-Adaptive Controller Based on Q Series PLC. *Advanced Materials Research*, **2013**, 694-697, 2134-2138 | 0.5 | |
| 83 | A Fire Detecting Method for Video-Based Fire Detector. *Advanced Materials Research*, **2013**, 850-851, 537-540 | 0.5 | |
| 82 | . *IEEE Transactions on Instrumentation and Measurement*, **2013**, 62, 2795-2804 | 5.2 | 19 |
| 81 | Parameters Measurement for Multiphase Flow Process. *Zidonghua Xuebao/Acta Automatica Sinica*, **2013**, 39, 1923 | | 6 |
| 80 | An Improved Total Variation Regularization Method for Electrical Resistance Tomography. *Lecture Notes in Electrical Engineering*, **2013**, 603-610 | 0.2 | |
| 79 | Design of Parallel Electrical Resistance Tomography System for Measuring Multiphase Flow. *Chinese Journal of Chemical Engineering*, **2012**, 20, 368-379 | 3.2 | 49 |
| 78 | Analysis of constant-current characteristics for current sources **2012**, | | 4 |
| 77 | Two phase flow visualization in an annular tube by an Electrical Resistance Tomography **2012**, | | 1 |
| 76 | Application of PLC for arranging bottle in Beer filling production line **2012**, | | 1 |
| 75 | Investigation on pressure-tapping methods of long waist cone flow meter using CFD simulation **2012**, | | 1 |
| 74 | A simulation experimental system of multiphase pipe flow **2012**, | | 1 |
| 73 | Comparation of calibration methods for bubbly flow video image **2012**, | | 2 |
| 72 | Dual-modality data acquisition system based on CPCI industrial computer **2012**, | | 1 |
| 71 | A boundary element approach to estimate the free surface in stratified two-phase flow. *Measurement Science and Technology*, **2012**, 23, 105401 | 2 | 7 |
| 70 | Improved Correlation for the Volume of Bubble Formed in Air-Water System. *Chinese Journal of Chemical Engineering*, **2011**, 19, 529-532 | 3.2 | 8 |
| 69 | **2011**, | | 3 |
| 68 | High-precision electrical resistance tomography with external and internal electrode arrays **2011**, | | 4 |

| | | | |
|---|---|---|---|
| 67 | Data fusion for measurement of water holdup in horizontal pipes by conductivity rings **2011**, | | 3 |
| 66 | 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 | 9 |
| 65 | Electrical resistance tomography system based on CompactPCI for multiphase flow measurement **2011**, | | 2 |
| 64 | Distributed arithmetic FIR filter for electrical resistance tomography system **2011**, | | 1 |
| 63 | 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 | 11 |
| 62 | **2010**, | | 1 |
| 61 | Characteristic Analysis of Gas/Liquid Two-Phase Flow Regimes Based on Wavelet Packet Entropy **2010**, | | 3 |
| 60 | Cross correlation velocity of oil-water two-phase flow by a Dual-plane Electrical Resistance Tomography system **2010**, | | 4 |
| 59 | Flow Rate Measurement of Oil/Gas/Water Three-Phase Flow with V-Cone Flow Meter **2010**, | | 1 |
| 58 | A measurement method of slug flow velocity of gas-liquid two-phase flow in horizontal pipe **2010**, | | 2 |
| 57 | Cyclostationarity in electrical resistance tomography data from gas/liquid two-phase flow **2010**, | | 4 |
| 56 | Electrical resistance tomography for locating inclusions using analytical boundary element integrals and their partial derivatives. *Engineering Analysis With Boundary Elements*, **2010**, 34, 876-883 | 2.6 | 25 |
| 55 | . *IEEE Transactions on Instrumentation and Measurement*, **2010**, 59, 1294-1302 | 5.2 | 13 |
| 54 | Galerkin boundary element method for the forward problem of ERT. *Flow Measurement and Instrumentation*, **2010**, 21, 172-177 | 2.2 | 8 |
| 53 | High GVF and low pressure gas–liquid two-phase flow measurement based on dual-cone flowmeter. *Flow Measurement and Instrumentation*, **2010**, 21, 410-417 | 2.2 | 24 |
| 52 | Application of electrical resistance tomography for slug flow measurement in gas/liquid flow of horizontal pipe **2009**, | | 2 |
| 51 | Conductance probe for the measurement of liquid volume fraction and axial velocity in gas-liquid two phase flow **2009**, | | 8 |
| 50 | Introducing conditional integrator to sliding mode control of DC/DC buck converter **2009**, | | 2 |

| | | | |
|---|---|---|---|
| 49 | Cross-section system and V-cone meter fusion in plug flow measurement **2009**, | | 3 |
| 48 | Independent component analysis of the interface fluctuations of gas/liquid two-phase flow **2009**, | | 1 |
| 47 | Gas-Water Two-Phase Flow Regime Recognition with Data and Feature Fusion from a Dual-Plane ERT System **2009**, | | 2 |
| 46 | Independent component analysis of interface fluctuation of gas/liquid two-phase flows □ experimental study. *Flow Measurement and Instrumentation*, **2009**, 20, 220-229 | 2.2 | 7 |
| 45 | Mass flow rate measurement of Gas/liquid two-phase flow in horizontal pipe based on V-cone flow meter and adaptive wavelet network **2009**, | | 2 |
| 44 | Gas-water two-phase flow regime identification with feature fusion from an ERT system and a V-cone meter **2009**, | | 3 |
| 43 | Image features extraction of gas/liquid two-phase flow in horizontal pipeline by GLCM and GLGCM **2009**, | | 10 |
| 42 | Robust complete synchronization of electrical coupling neurons under uncertain heterogeneous disturbances using adaptive internal model. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2009**, 2009, 3457-60 | 0.9 | |
| 41 | Gas/Liquid Two-Phase Flow Regime Recognition Based on Adaptive Wavelet-Based Neural Network **2008**, | | 2 |
| 40 | Track of rising bubble in bubbling tower based on image processing of high-speed video **2008**, | | 2 |
| 39 | Chaos synchronization of coupled neurons under external electrical stimulation using adaptive H□ control. *Transactions of the Institute of Measurement and Control*, **2008**, 30, 225-238 | 1.8 | 1 |
| 38 | An Evaluation Method for Reconstructed Images in Electrical Tomography **2008**, | | 4 |
| 37 | Global synchronization of N neurons in external electrical stimulation via active control. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2008**, 2008, 2485-8 | 0.9 | |
| 36 | Application of D-S evidence theory in flow regime identification of two-phase horizontal pipe flow **2008**, | | 2 |
| 35 | An analysis of EEG when acupuncture with wavelet entropy. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2008**, 2008, 1108-11 | 0.9 | 1 |
| 34 | Inhibitory chemical coupling of electronic Morris-Lecar neuron model and its bifurcation analysis. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2008**, 2008, 2461-4 | 0.9 | 0 |
| 33 | Regime recognition of two-phase pipe flow based on D-S evidence theory **2008**, | | 2 |
| 32 | Mass flow-rate measurement of oil-water two-phase flow based on differential pressure and adaptive wavelet network **2008**, | | 1 |

| | | | |
|---|---|---|---|
| 31 | Void Fraction Measurement for Two-Phase Flow Using Electrical Resistance Tomography. *Canadian Journal of Chemical Engineering*, **2008**, 83, 19-23 | 2.3 | 2 |
| 30 | Identification of gas/liquid two-phase flow regime through ERT-based measurement and feature extraction. *Flow Measurement and Instrumentation*, **2007**, 18, 255-261 | 2.2 | 64 |
| 29 | Gas-Liquid Two-Phase Flow Measurement with Dual-Plane ERT System in Vertical Pipes. *AIP Conference Proceedings*, **2007**, | 0 | 2 |
| 28 | Design of High Speed Cross Section Measurement System and its Real-Time Performance Analysis **2007**, | | 1 |
| 27 | Multiscaled texture synthesis using multisized pixel neighborhoods. *IEEE Computer Graphics and Applications*, **2007**, 27, 41-7 | 1.7 | 5 |
| 26 | Bifurcation Analysis of the Hodgkin-Huxley Model Exposed to External DC Electric Field **2007**, | | 3 |
| 25 | Global Synchronization of Ghostburster Neurons Via Active Control. *Lecture Notes in Computer Science*, **2007**, 598-607 | 0.9 | |
| 24 | Comparisons of Chemical Synapses and Gap Junctions in the Stochastic Dynamics of Coupled Neurons. *Lecture Notes in Computer Science*, **2007**, 254-263 | 0.9 | 1 |
| 23 | Distinguish Different Acupuncture Manipulations by Using Idea of ISI. *Lecture Notes in Computer Science*, **2007**, 264-273 | 0.9 | |
| 22 | Development of single drive electrode electrical resistance tomography system. *IEEE Transactions on Instrumentation and Measurement*, **2006**, 55, 1208-1214 | 5.2 | 12 |
| 21 | 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 | 5.2 | 35 |
| 20 | Feature Extraction Method for Gas/Liquid Two-Phase Flow Based on Wavelets Transform **2006**, | | 3 |
| 19 | Optimization Design on Sensing Field of Electromagnetic Tomography **2006**, | | 1 |
| 18 | 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**, | | 3 |
| 17 | Flowrate Measurement with Characteristic Value Cross-Correlation by Ert in Two-Phase Vertical Pipe Flows **2006**, | | 3 |
| 16 | Study on Wide-Range Turbine Flowmeter **2006**, | | 2 |
| 15 | Two-Phase Flow Measurement by Dual-Plane Ert System with Drift-Flux Model and Cross Correlation Thechnique **2006**, | | 4 |
| 14 | Gas/liquid two-phase flow regime identification in horizontal pipe using support vector machines **2005**, | | 1 |

| | | | |
|---|---|---|---|
| 13 | A novel ERT system based on DSP and CPLD **2005**, | | 1 |
| 12 | 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 | 2.2 | 45 |
| 11 | Multi-parameter Hopf-bifurcation in HHM Model Exposed to ELF Electric Field. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, **2005**, 2005, 4646-9 | | |
| 10 | Chaotic Synchronization of Multi-neurons in External Electrical Stimulation. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, **2005**, 2005, 2103-6 | | |
| 9 | On-line monitoring of nonaxisymmetric flow profile with a multielectrode inductance flowmeter. *IEEE Transactions on Instrumentation and Measurement*, **2004**, 53, 1321-1326 | 5.2 | 14 |
| 8 | Application of electrical resistance tomography to two-phase pipe flow parameters measurement. *Flow Measurement and Instrumentation*, **2003**, 14, 183-192 | 2.2 | 83 |
| 7 | On fluctuation of the dynamic differential pressure signal of Venturi meter for wet gas metering. *Flow Measurement and Instrumentation*, **2003**, 14, 211-217 | 2.2 | 35 |
| 6 | 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 | 41 |
| 5 | Optimum estimation of the mean flow velocity for the multi-electrode inductance flowmeter. *Measurement Science and Technology*, **2001**, 12, 1139-1146 | 2 | 24 |
| 4 | Identification of two-phase flow regimes in horizontal, inclined and vertical pipes. *Measurement Science and Technology*, **2001**, 12, 1069-1075 | 2 | 45 |
| 3 | Application of electrical resistance tomography to identification two-phase flow regime | | 2 |
| 2 | Research on electrical resistance tomography and cross-correlation technique to measure the two-phase flows | | 1 |
| 1 | Electrical resistance tomography based on the single drive electrode method | | 1 |