

# Lijun Xu

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

229  
papers

2,319  
citations

24  
h-index

34  
g-index

311  
ext. papers

2,993  
ext. citations

3.5  
avg, IF

5.69  
L-index

| #   | Paper   | IF   | Citations |
|-----|---|------|-----------|
| 229 | A Modified Noise Model of Electrical Impedance Tomography System by Considering Colored Noises. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2022</b> , 1-1   | 5.2  | 2         |
| 228 | Time-division-multiplexed Online Gauss-Newton-based Multi-echo Decomposition Method for Real-time In-situ Laser Ranging. <i>IEEE Sensors Journal</i> , <b>2022</b> , 1-1  | 4    |           |
| 227 | A Fabry-Perot fiber-optic array for photoacoustic imaging. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2022</b> , 1-1  | 5.2  | 0         |
| 226 | B-Spline Based Progressive Decomposition of LiDAR Waveform With Low SNR. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2022</b> , 71, 1-12   | 5.2  | 1         |
| 225 | An Eddy Current Testing Method for Thickness and Conductivity Measurement of Non-magnetic Material. <i>IEEE Sensors Journal</i> , <b>2022</b> , 1-1   | 4    | 2         |
| 224 | Sparse Zernike fitting for dynamic LAS tomographic images of temperature and water vapor concentration. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2022</b> , 1-1                                     | 5.2  | 2         |
| 223 | Direct image reconstruction in electrical tomography and its applications <b>2022</b> , 389-425   |      |           |
| 222 | Functionalized Macrophage Exosomes with Panobinostat and PPM1D-siRNA for Diffuse Intrinsic Pontine Gliomas Therapy.. <i>Advanced Science</i> , <b>2022</b> , e2200353   | 13.6 | 1         |
| 221 | Flexible and Wearable EMG and PSD Sensors Enabled Locomotion Mode Recognition for IoHT-Based In-Home Rehabilitation. <i>IEEE Sensors Journal</i> , <b>2021</b> , 21, 26311-26319  | 4    | 11        |
| 220 | A Modified Adaptive Cross-Correlation Method for Flow Rate Measurement of High-Water-Cut Oil-Water Flow Using Planar Flowmeter. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 1-1             | 5.2  | 1         |
| 219 | Development of a Wearable Gesture Recognition System Based on Two-terminal Electrical Impedance Tomography. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2021</b> , PP,                                    | 7.2  | 2         |
| 218 | Airborne LiDAR: state-of-the-art of system design, technology and application. <i>Measurement Science and Technology</i> , <b>2021</b> , 32, 032002   | 2    | 12        |
| 217 | MXenes: MXenes: Synthesis, Optical Properties, and Applications in Ultrafast Photonics (Small 11/2021). <i>Small</i> , <b>2021</b> , 17, 2170048  | 11   | 0         |
| 216 | Precise wide-band electrical impedance spectroscopy measurement via an ADC operated below the Nyquist sampling rate. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2021</b> , 174, 108995 | 4.6  | 1         |
| 215 | 3D Reconstruction in Planar Array Electrical Capacitance Tomography Based on Depth Estimation and Sparse Representation <b>2021</b> ,   |      | 1         |
| 214 | Online Multi-Target Laser Ranging Using Waveform Decomposition on FPGA. <i>IEEE Sensors Journal</i> , <b>2021</b> , 21, 10879-10889   | 4    | 1         |
| 213 | Ultra-Low Sampled and High Precision TDLAS Thermometry Via Artificial Neural Network. <i>IEEE Photonics Journal</i> , <b>2021</b> , 13, 1-9   | 1.8  | 1         |

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| 212 | A multi-target on-line ranging method based on matrix sparsification and a division-free Gauss-Jordan solver. <i>Measurement Science and Technology</i> , <b>2021</b> , 32, 095207                                      | 2   | 1   |
| 211 | Biomedical Applications of Electromagnetic Detection: A Brief Review. <i>Biosensors</i> , <b>2021</b> , 11,   | 5.9 | 3   |
| 210 | Simultaneous Shape and Permittivity Reconstruction in ECT With Sparse Representation: Two-Phase Distribution Imaging. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 70, 1-14              | 5.2 | 6   |
| 209 | Real-Time In-Situ Laser Ranging via Back Propagation Neural Network on FPGA. <i>IEEE Sensors Journal</i> , <b>2021</b> , 21, 4664-4673  | 4   | 3   |
| 208 | Deep Image Refinement Method by Hybrid Training With Images of Varied Quality in Electrical Capacitance Tomography. <i>IEEE Sensors Journal</i> , <b>2021</b> , 21, 6342-6355   | 4   | 6   |
| 207 | Super-Resolution Ultrasound Lamb Wave NDE Imaging of Anisotropic Airplane Laminates via Deconvolutional Neural Network. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 70, 1-8             | 5.2 | 3   |
| 206 | Image Reconstruction Based on Fuzzy Adaptive Kalman Filter in Electrical Capacitance Tomography. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 70, 1-10                                   | 5.2 | 0   |
| 205 | . <i>IEEE Sensors Journal</i> , <b>2021</b> , 1-1   | 4   | 4   |
| 204 | A Robust Deconvolution Method of Airborne LiDAR Waveforms for Dense Point Clouds Generation in Forest. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2021</b> , 1-14                                   | 8.1 | 1   |
| 203 | A Piezoelectric Force Sensing and Gesture Monitoring-Based Technique for Acupuncture Quantification. <i>IEEE Sensors Journal</i> , <b>2021</b> , 1-1  | 4   | 1   |
| 202 | Noise Immune TDLAS Temperature Measurement Through Spectrum Shifting by Using a Mach-Zehnder Interferometer. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 70, 1-9                        | 5.2 | 4   |
| 201 | Revised Calderon Method of Annular ECT for Imaging Flashback Flame of a Bluff-Body Burner. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 70, 1-10   | 5.2 |     |
| 200 | A Machine-Learning-Based Touch Orientation Detection Method for Piezoelectric Touch Sensing in Noisy Environment. <i>IEEE Sensors Journal</i> , <b>2021</b> , 1-1   | 4   | 1   |
| 199 | A Fuzzy PID-Controlled Iterative Calderon Method for Binary Distribution in Electrical Capacitance Tomography. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 70, 1-11                     | 5.2 | 3   |
| 198 | MXenes: Synthesis, Optical Properties, and Applications in Ultrafast Photonics. <i>Small</i> , <b>2021</b> , 17, e20060541  | 4.1 | 4.1 |
| 197 | Soft and plasmonic hydrogel optical probe for glucose monitoring. <i>Nanophotonics</i> , <b>2021</b> ,  | 6.3 | 5   |
| 196 | Retrieval of Phase and Temperature Distributions in Axisymmetric Flames From Phase-Modulated Large Lateral Shearing Interferogram. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 70, 1-12 | 5.2 | 3   |
| 195 | Real-Time 3-D Imaging and Velocity Measurement of Two-Phase Flow Using a Twin-Plane ECT Sensor. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 70, 1-10                                    | 5.2 | 6   |

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| 194 | An FPGA-Based On-Chip Neural Network for TDLAS Tomography in Dynamic Flames. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 1-1   | 5.2 | 4  |
| 193 | 3-D Image Reconstruction in Planar Array ECT by Combining Depth Estimation and Sparse Representation. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 70, 1-9  | 5.2 | 3  |
| 192 | Edge Effect Analysis and Edge Defect Detection of Titanium Alloy Based on Eddy Current Testing. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 8796   | 2.6 | 6  |
| 191 | Dynamic flashback induced by sound wave in a premixed bluff-body stabilized flame. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2020</b> , 546, 042019   | 0.3 |    |
| 190 | A WMS Based TDLAS Tomographic System for Distribution Retrievals of Both Gas Concentration and Temperature in Dynamic Flames. <i>IEEE Sensors Journal</i> , <b>2020</b> , 20, 4179-4188  | 4   | 17 |
| 189 | Ensemble Learning-Based Technique for Force Classifications in Piezoelectric Touch Panels. <i>IEEE Sensors Journal</i> , <b>2020</b> , 1-1   | 4   | 2  |
| 188 | Frequency-Division Multiplexing and Main Peak Scanning WMS Method for TDLAS Tomography in Flame Monitoring. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2020</b> , 69, 9087-9096  | 5.2 | 23 |
| 187 | Review on wavelength-tunable pulsed fiber lasers based on 2D materials. <i>Optics and Laser Technology</i> , <b>2020</b> , 131, 106375   | 4.2 | 21 |
| 186 | Online Gauss-Newton-Based Parallel-Pipeline Method for Real-Time In-Situ Laser Ranging. <i>IEEE Sensors Journal</i> , <b>2020</b> , 20, 7087-7096  | 4   | 6  |
| 185 | A lamination-based piezoelectric insole gait analysis system for massive production for Internet-of-health things. <i>International Journal of Distributed Sensor Networks</i> , <b>2020</b> , 16, 155014772090543                               | 1.7 | 5  |
| 184 | A force-voltage responsivity stabilization method for piezoelectric-based insole gait analysis for high detection accuracy in health monitoring. <i>International Journal of Distributed Sensor Networks</i> , <b>2020</b> , 16, 155014772090544 | 1.7 | 7  |
| 183 | A Touch Orientation Classification-Based Force-Voltage Responsivity Stabilization Method for Piezoelectric Force Sensing in Interactive Displays. <i>IEEE Sensors Journal</i> , <b>2020</b> , 20, 8147-8154                                      | 4   | 10 |
| 182 | Solution-processed two-dimensional materials for ultrafast fiber lasers (invited). <i>Nanophotonics</i> , <b>2020</b> , 9, 2169-2189   | 6.3 | 28 |
| 181 | High Security User Authentication Enabled by Piezoelectric Keystroke Dynamics and Machine Learning. <i>IEEE Sensors Journal</i> , <b>2020</b> , 20, 13037-13046  | 4   | 5  |
| 180 | Inverse Radon Method Based on Electrical Field Lines for Dual-Modality Electrical Tomography. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2020</b> , 1-1  | 5.2 | 3  |
| 179 | . <i>IEEE Sensors Journal</i> , <b>2020</b> , 20, 7556-7568  | 4   | 9  |
| 178 | Permittivity Reconstruction in Electrical Capacitance Tomography Based on Visual Representation of Deep Neural Network. <i>IEEE Sensors Journal</i> , <b>2020</b> , 20, 4803-4815  | 4   | 22 |
| 177 | Lean blowout detection for bluff-body stabilized flame. <i>Fuel</i> , <b>2020</b> , 266, 117008  | 7.1 | 8  |

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|-----|--|-------|----|
| 176 | Estimation of Combustion Temperature Field From the Electrical Admittivity Distribution Obtained by Electrical Tomography. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2020</b> , 69, 6271-6280 | 5.2   | 7  |
| 175 | A Smart Terrain Identification Technique Based on Electromyography, Ground Reaction Force, and Machine Learning for Lower Limb Rehabilitation. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 2638        | 2.6   | 13 |
| 174 | Passively Q-switched Yb-doped all-fiber laser based on Ag nanoplates as saturable absorber. <i>Nanophotonics</i> , <b>2020</b> , 9, 3873-3880  | 6.3   | 8  |
| 173 | Suppression of reverberations at fiber tips for optical ultrasound sensing. <i>Optics Letters</i> , <b>2020</b> , 45, 2526-2529  | 3.529 | 4  |
| 172 | Random vibration-driven continuous-wave CRDS system for calibration-free gas concentration measurement. <i>Optics Letters</i> , <b>2020</b> , 45, 746-749  | 3     | 1  |
| 171 | Spectrum enhanced colour ultrasound (SECU) imaging. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2020</b> , 154, 107401   | 4.6   | 3  |
| 170 | Dynamic measurement of gas volume fraction in a CO2 pipeline through capacitive sensing and data driven modelling. <i>International Journal of Greenhouse Gas Control</i> , <b>2020</b> , 94, 102950                 | 4.2   | 4  |
| 169 | A Compact Laser Absorption Spectroscopy Tomographic System With Short Spectral Scanning Time and Adjustable Frame Rate. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2020</b> , 69, 8226-8237    | 5.2   | 10 |
| 168 | A Compact Noise-Immune TDLAS Temperature Sensor using Intensity Modulation <b>2020</b> ,   |       | 1  |
| 167 | Corn Seedling Monitoring Using 3-D Point Cloud Data From Terrestrial Laser Scanning and Registered Camera Data. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2020</b> , 17, 137-141                        | 4.1   | 0  |
| 166 | Effects of water vapor addition on NO reduction of n-decane/air flames. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , <b>2020</b> , 42, 1526-1540                                 | 1.6   | 5  |
| 165 | A new simplified mechanism for combustion of RP-3/Jet-A kerosene. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , <b>2020</b> , 42, 676-687   | 1.6   | 3  |
| 164 | In-vivo histocompatibility and osteogenic potential of biodegradable PLDLA composites containing silica-based bioactive glass fiber. <i>Journal of Biomaterials Applications</i> , <b>2020</b> , 35, 59-71           | 2.9   | 1  |
| 163 | ProportionalIntegral Controller Modified Landweber Iterative Method for Image Reconstruction in Electrical Capacitance Tomography. <i>IEEE Sensors Journal</i> , <b>2019</b> , 19, 8790-8802                         | 4     | 11 |
| 162 | . <i>IEEE Journal of the Electron Devices Society</i> , <b>2019</b> , 7, 1018-1025   | 2.3   | 8  |
| 161 | Fast wavelength modulated TDLAS imaging system for flame monitoring <b>2019</b> ,  |       | 1  |
| 160 | Transcriptome analysis of hemocytes from the white shrimp <i>Litopenaeus vannamei</i> with the injection of dopamine. <i>Fish and Shellfish Immunology</i> , <b>2019</b> , 94, 497-509                               | 4.3   | 13 |
| 159 | Factors influencing assessment in a TDC-based ranging system. <i>Measurement Science and Technology</i> , <b>2019</b> , 30, 125018   | 2     | 2  |

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| 158 | Crustacean hyperglycemic hormone (CHH) affects hemocyte intracellular signaling pathways to regulate exocytosis and immune response in white shrimp <i>Litopenaeus vannamei</i> . <i>Peptides</i> , <b>2019</b> , 116, 30-41                 | 3.8 | 22 |
| 157 | Asymmetrical-Gaussian-Model-Based Laser Echo Detection. <i>IEEE Sensors Journal</i> , <b>2019</b> , 19, 3797-3806  | 4   | 6  |
| 156 | 4-Dimensional Sensing in Interactive Displays Enabled by Both Capacitive and Piezoelectric Based Touch Panel. <i>IEEE Access</i> , <b>2019</b> , 7, 33787-33794  | 3.5 | 7  |
| 155 | Recent development of electromagnetic wave resistivity tools for logging-while-drilling. <i>Acta Geologica Sinica</i> , <b>2019</b> , 93, 291-291  | 0.7 |    |
| 154 | Forward solver for deep earth exploration and induction logging using custom built Edge-Element FEM technique. <i>Acta Geologica Sinica</i> , <b>2019</b> , 93, 302-304  | 0.7 | 1  |
| 153 | A survey of underground detection methods with a new proposal for urban underground detection. <i>Acta Geologica Sinica</i> , <b>2019</b> , 93, 322-324  | 0.7 |    |
| 152 | Real-Time In Situ Laser Ranging Based on Online Echo Waveform Fitting. <i>IEEE Sensors Journal</i> , <b>2019</b> , 19, 9255-9262   | 4   | 13 |
| 151 | Effects of crustacean hyperglycemic hormone (CHH) on regulation of hemocyte intracellular signaling pathways and phagocytosis in white shrimp <i>Litopenaeus vannamei</i> . <i>Fish and Shellfish Immunology</i> , <b>2019</b> , 93, 559-566 | 4.3 | 20 |
| 150 | Investigation of Multi-Plane Scheme for Compensation of Fringe Effect of Electrical Resistance Tomography Sensor. <i>Sensors</i> , <b>2019</b> , 19,   | 3.8 | 1  |
| 149 | Three-dimensional laser absorption spectroscopy velocimetry for high-speed flow diagnosis. <i>Applied Physics B: Lasers and Optics</i> , <b>2019</b> , 125, 1  | 1.9 | 1  |
| 148 | Signal Demodulation Methods for Electrical Tomography: A Review. <i>IEEE Sensors Journal</i> , <b>2019</b> , 19, 9026-9035   | 4   | 8  |
| 147 | Reconstruction of two-dimensional velocity distribution in scramjet by laser absorption spectroscopy tomography. <i>Applied Optics</i> , <b>2019</b> , 58, 205-212   | 1.7 | 13 |
| 146 | µm-resolution thickness distribution measurement of transparent glass films by using a multi-wavelength phase-shift extraction method in the large lateral shearing interferometer. <i>Optics Express</i> , <b>2019</b> , 27, 2899-2914      | 3.3 | 3  |
| 145 | Fiber optic-based laser interferometry array for three-dimensional ultrasound sensing. <i>Optics Letters</i> , <b>2019</b> , 44, 5852-5855   | 3   | 8  |
| 144 | Verification for Electrical Tomography in Flame Monitoring by Ion Probe <b>2019</b> ,  |     | 1  |
| 143 | Improving image reconstruction in electrical capacitance tomography based on deep learning <b>2019</b> ,   |     | 2  |
| 142 | Effect of stimulation patterns on bladder volume measurement based on fringe effect of EIT sensors <b>2019</b> ,   |     | 2  |
| 141 | Study of Dynamic Behaviors of Thermoacoustic Oscillations by Using Laser Absorption Spectroscopy. <i>IEEE Sensors Journal</i> , <b>2019</b> , 19, 12271-12278  | 4   | 2  |

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| 140 | Direct Image Reconstruction for Electrical Capacitance Tomography Using Shortcut D-Bar Method. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2019</b> , 68, 483-492  | 5.2 | 17 |
| 139 | Automatic Registration Method for TLS LiDAR Data and Image-Based Reconstructed Data. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2019</b> , 16, 482-486  | 4.1 | 0  |
| 138 | An Agile Electrical Capacitance Tomography System With Improved Frame Rates. <i>IEEE Sensors Journal</i> , <b>2019</b> , 19, 1416-1425  | 4   | 10 |
| 137 | Laser absorption spectroscopy for combustion diagnosis in reactive flows: A review. <i>Applied Spectroscopy Reviews</i> , <b>2019</b> , 54, 1-44  | 4.5 | 75 |
| 136 | Online Cross-Sectional Monitoring of a Swirling Flame Using TDLAS Tomography. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2018</b> , 67, 1338-1348   | 5.2 | 40 |
| 135 | Particle sizing from Fraunhofer diffraction pattern using a digital micro-mirror device and a single photodiode. <i>Powder Technology</i> , <b>2018</b> , 332, 351-358  | 5.2 | 5  |
| 134 | Prediction of equivalence ratio in pulse combustor from ion current amplitude spectrum. <i>Fuel</i> , <b>2018</b> , 218, 179-187  | 7.1 | 9  |
| 133 | Effects of ammonia-N exposure on the concentrations of neurotransmitters, hemocyte intracellular signaling pathways and immune responses in white shrimp <i>Litopenaeus vannamei</i> . <i>Fish and Shellfish Immunology</i> , <b>2018</b> , 75, 48-57 | 4.3 | 37 |
| 132 | FPGA-Based Real-Time Implementation of Temperature Measurement via Tunable Diode Laser Absorption Spectroscopy. <i>IEEE Sensors Journal</i> , <b>2018</b> , 18, 2751-2758   | 4   | 9  |
| 131 | On the regularization for nonlinear tomographic absorption spectroscopy. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2018</b> , 206, 233-241  | 2.1 | 14 |
| 130 | A method for compensating platform attitude fluctuation for helicopter-borne LiDAR: Performance and effectiveness. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2018</b> , 125, 37-47                              | 4.6 | 1  |
| 129 | An Iterative Algorithm Based on the Dual Integral Inversion for Particle Sizing. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2018</b> , 67, 1729-1737  | 5.2 | 3  |
| 128 | Lab-built terrestrial laser scanner self-calibration using mounting angle error correction. <i>Optics Express</i> , <b>2018</b> , 26, 14444-14460   | 3.3 | 7  |
| 127 | Influence of Waveform Characteristics on LiDAR Ranging Accuracy and Precision. <i>Sensors</i> , <b>2018</b> , 18,   | 3.8 | 24 |
| 126 | A Recursive Demodulator for Real-Time Measurement of Multiple Sinusoids. <i>IEEE Sensors Journal</i> , <b>2018</b> , 18, 6281-6289  | 4   | 5  |
| 125 | Real-Time Imaging and Holdup Measurement of Carbon Dioxide Under CCS Conditions Using Electrical Capacitance Tomography. <i>IEEE Sensors Journal</i> , <b>2018</b> , 18, 7551-7559  | 4   | 8  |
| 124 | Dynamic Characterization of Pulse Combustion by Image Series Processing. <i>IEEE Sensors Journal</i> , <b>2018</b> , 18, 9682-9690  | 4   | 1  |
| 123 | Terrestrial Laser Scanner Autonomous Self-Calibration With No Prior Knowledge of Point-Clouds. <i>IEEE Sensors Journal</i> , <b>2018</b> , 18, 9277-9285  | 4   | 10 |

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| 122 | Independent and simultaneous effect of crustacean hyperglycemic hormone and dopamine on the hemocyte intracellular signaling pathways and immune responses in white shrimp <i>Litopenaeus vannamei</i> . <i>Fish and Shellfish Immunology</i> , <b>2018</b> , 83, 262-271 | 4.3 | 9  |
| 121 | Dual-Modality Electrical Tomography for Flame Monitoring. <i>IEEE Sensors Journal</i> , <b>2018</b> , 18, 8847-8854   | 4   | 14 |
| 120 | Optimal selection of spectral lines for multispectral absorption tomography. <i>Applied Physics B: Lasers and Optics</i> , <b>2018</b> , 124, 1   | 1.9 | 3  |
| 119 | Iterative Reconstruction Algorithm for Electrical Capacitance Tomography Based on Calderon's Method. <i>IEEE Sensors Journal</i> , <b>2018</b> , 18, 8450-8462  | 4   | 13 |
| 118 | Co-path full-waveform LiDAR for detection of multiple along-path objects. <i>Optics and Lasers in Engineering</i> , <b>2018</b> , 111, 211-221  | 4.6 | 13 |
| 117 | A LiDAR data-based camera self-calibration method. <i>Measurement Science and Technology</i> , <b>2018</b> , 29, 075205   | 2   | 2  |
| 116 | Detection of Water Leakage in Underground Tunnels Using Corrected Intensity Data and 3D Point Cloud of Terrestrial Laser Scanning. <i>IEEE Access</i> , <b>2018</b> , 6, 32471-32480  | 3.5 | 19 |
| 115 | A Reconfigurable Parallel Data Acquisition System for Tunable Diode Laser Absorption Spectroscopy Tomography. <i>IEEE Sensors Journal</i> , <b>2017</b> , 17, 8215-8223   | 4   | 9  |
| 114 | Flame monitoring of a model swirl injector using 1D tunable diode laser absorption spectroscopy tomography. <i>Measurement Science and Technology</i> , <b>2017</b> , 28, 054002  | 2   | 14 |
| 113 | Full-waveform LiDAR echo decomposition based on wavelet decomposition and particle swarm optimization. <i>Measurement Science and Technology</i> , <b>2017</b> , 28, 045205   | 2   | 8  |
| 112 | A Fuzzy PID Controller-Based Two-Axis Compensation Device for Airborne Laser Scanning. <i>IEEE Sensors Journal</i> , <b>2017</b> , 17, 1353-1362  | 4   | 7  |
| 111 | Influence of Time-Pickoff Circuit Parameters on LiDAR Range Precision. <i>Sensors</i> , <b>2017</b> , 17,   | 3.8 | 13 |
| 110 | Support-vector-regression-based prediction of water holdup in horizontal oil-water flow by using a bicircular conductance probe array. <i>Flow Measurement and Instrumentation</i> , <b>2017</b> , 57, 64-72  | 2.2 | 1  |
| 109 | Ion current sensing-based lean blowout detection for a pulse combustor. <i>Combustion and Flame</i> , <b>2017</b> , 176, 263-271  | 5.3 | 23 |
| 108 | Digital Recursive Demodulator Based on Kalman Filter. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2017</b> , 66, 3138-3147   | 5.2 | 15 |
| 107 | A High-Speed Digital Electrical Capacitance Tomography System Combining Digital Recursive Demodulation and Parallel Capacitance Measurement. <i>IEEE Sensors Journal</i> , <b>2017</b> , 17, 6690-6698  | 4   | 26 |
| 106 | Comparison of two approaches for land cover classification from ICESat/GLAS waveform data <b>2017</b> ,   |     | 2  |
| 105 | Terrestrial Laser Scanning Intensity Correction by Piecewise Fitting and Overlap-Driven Adjustment. <i>Remote Sensing</i> , <b>2017</b> , 9, 1090   | 5   | 27 |



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|-----|---|-----|----|
| 104 | GPS-aided method for platform attitude determination based on target images. <i>Applied Optics</i> , <b>2017</b> , 56, 2378-2387  | 0.2 | 5  |
| 103 | Compressive sensing for particle size retrieval by using a digital micro-mirror device-based detector. <i>Powder Technology</i> , <b>2016</b> , 304, 27-31  | 5.2 | 3  |
| 102 | Surface slope and roughness measurement using ICESat/GLAS elevation and laser waveform. <i>Measurement Science and Technology</i> , <b>2016</b> , 27, 095202  | 2   | 7  |
| 101 | Compressive sensing-based wideband capacitance measurement with a fixed sampling rate lower than the highest exciting frequency. <i>Measurement Science and Technology</i> , <b>2016</b> , 27, 035006   | 2   | 4  |
| 100 | A high success rate full-waveform lidar echo decomposition method. <i>Measurement Science and Technology</i> , <b>2016</b> , 27, 015205   | 2   | 17 |
| 99  | Tunable diode laser absorption spectroscopy-based tomography system for on-line monitoring of two-dimensional distributions of temperature and H <sub>2</sub> O mole fraction. <i>Review of Scientific Instruments</i> , <b>2016</b> , 87, 013101 | 1.7 | 22 |
| 98  | Water holdup measurement of oil/water two-phase flow in a horizontal well using a dual-circle conductance probe array. <i>Measurement Science and Technology</i> , <b>2016</b> , 27, 115101   | 2   | 5  |
| 97  | Within-footprint roughness measurements using ICESat/GLAS waveform and LVIS elevation. <i>Measurement Science and Technology</i> , <b>2016</b> , 27, 125012   | 2   | 6  |
| 96  | Identification of Oil/Water Flow Patterns in a Vertical Well Using a Dual-Ring Conductance Probe Array. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2016</b> , 65, 1249-1258   | 5.2 | 19 |
| 95  | Performance analysis of a digital capacitance measuring circuit. <i>Review of Scientific Instruments</i> , <b>2015</b> , 86, 054703   | 1.7 | 48 |
| 94  | Digital micro-mirror device-based detector for particle-sizing instruments via Fraunhofer diffraction. <i>Applied Optics</i> , <b>2015</b> , 54, 5842-9   | 0.2 | 5  |
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| 92  | Water cut measurement of oil/water flow in vertical well by combining total flow rate and the response of a conductance probe. <i>Measurement Science and Technology</i> , <b>2015</b> , 26, 095306   | 2   | 7  |
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| 89  | Control Pulse Combination-Based Analysis of Pulse Train Controlled DCM Switching DCDC Converters. <i>IEEE Transactions on Industrial Electronics</i> , <b>2015</b> , 62, 246-255  | 8.9 | 30 |
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| 79 | Modified Landweber algorithm for robust particle sizing by using Fraunhofer diffraction. <i>Applied Optics</i> , <b>2014</b> , 53, 6185-93   | 1.7 | 11 |
| 78 | Projective rectification of infrared images from air-cooled condenser temperature measurement by using projection profile features and cross-ratio invariability. <i>Applied Optics</i> , <b>2014</b> , 53, 6482-93  | 1.7 | 1  |
| 77 | Digital signal processor-based high-precision on-line Voigt lineshape fitting for direct absorption spectroscopy. <i>Review of Scientific Instruments</i> , <b>2014</b> , 85, 123108   | 1.7 | 10 |
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| 66 | Laser spot center location by using the gradient-based and least square algorithms <b>2013</b> ,  |     | 2  |
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| 61 | Dew point measurement using a quartz crystal sensor <b>2013</b> ,   |     | 1  |
| 60 | Measurement of axisymmetric temperature distributions using single view fan-beam TDLAS tomography <b>2013</b> ,   |     | 2  |
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| 55 | A recursive least squares-based demodulator for electrical tomography. <i>Review of Scientific Instruments</i> , <b>2013</b> , 84, 044704   | 1.7 | 18 |
| 54 | A complex programmable logic device-based high-precision electrical capacitance tomography system. <i>Measurement Science and Technology</i> , <b>2013</b> , 24, 074006   | 2   | 14 |
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| 51 | A real-time method for DSM generation from airborne LiDAR data <b>2013</b> ,  |     | 5  |

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| 50 | Quantitatively Evaluating Random Attitude Measurement Errors' Impacts on DSM Elevation Accuracy From Airborne Laser Scanning. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2013</b> , 62, 3101-3109 | 5.2 | 9  |
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| 43 | Normalized least-square method for water hold-up measurement in stratified oil/water flow. <i>Flow Measurement and Instrumentation</i> , <b>2012</b> , 27, 71-80  | 2.2 | 18 |
| 42 | A kernel-density-estimation-based outlier detection for airborne LiDAR point clouds <b>2012</b> ,   |     | 1  |
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| 28 | Simulation on impact of random attitude measurement errors on point cloud and 3D image of ALS <b>2011</b> ,  |     | 1  |
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| 20 | Geometric distortion correction for sinusoidally scanned atomic force microscopic images <b>2010</b> ,   |     | 2  |
| 19 | Wet gas flow modeling for the straight section of throat-extended Venturi meter <b>2010</b> ,  |     | 1  |
| 18 | Electrical resistance tomography(ERT) by using an ECT sensor <b>2010</b> ,   |     | 3  |
| 17 | On-line identification of fuel type using joint probability density arbiter and support vector machine techniques <b>2010</b> ,  |     | 2  |
| 16 | Wet gas metering using a Venturi-meter and Support Vector Machines <b>2009</b> ,   |     | 2  |
| 15 | Image reconstruction technique of electrical capacitance tomography for low-contrast dielectrics using Calderon's method. <i>Measurement Science and Technology</i> , <b>2009</b> , 20, 104027 | 2   | 37 |

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| 7  | Identification of two-phase flow regimes in horizontal, inclined and vertical pipes. <i>Measurement Science and Technology</i> , <b>2001</b> , 12, 1069-1075                             | 2    | 45 |
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| 4  | RBF-based reconstruction method for tomographic imaging of temperature and water vapor concentration in flames   |      |    |
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| 2  | Multienzyme System in Amorphous MetalOrganic Frameworks for Intracellular Lactate Detection. <i>Nano Letters</i> ,   | 11.5 | 6  |
| 1  | Conductivity estimation of non-magnetic materials using eddy current method. <i>Nondestructive Testing and Evaluation</i> , 1-17   | 2    | 4  |