Lijun Xu

List of Publications by Citations

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	Development of a fan-beam TDLAS-based tomographic sensor for rapid imaging of temperature and gas concentration. *Optics Express*, **2015**, 23, 22494-511	3.3	75
228	Laser absorption spectroscopy for combustion diagnosis in reactive flows: A review. *Applied Spectroscopy Reviews*, **2019**, 54, 1-44	4.5	75
227	Application of ultrasonic tomography to monitoring gas/liquid flow. *Chemical Engineering Science*, **1997**, 52, 2171-2183	4.4	72
226	Reconstruction of Axisymmetric Temperature and Gas Concentration Distributions by Combining Fan-Beam TDLAS With Onion-Peeling Deconvolution. *IEEE Transactions on Instrumentation and Measurement*, **2014**, 63, 3067-3075	5.2	49
225	Performance analysis of a digital capacitance measuring circuit. *Review of Scientific Instruments*, **2015**, 86, 054703	1.7	48
224	Electrical Capacitance Tomography for Sensors of Square Cross Sections Using Calderon's Method. *IEEE Transactions on Instrumentation and Measurement*, **2011**, 60, 900-907	5.2	46
223	Identification of two-phase flow regimes in horizontal, inclined and vertical pipes. *Measurement Science and Technology*, **2001**, 12, 1069-1075	2	45
222	Comparative study of computational intelligence approaches for NOx reduction of coal-fired boiler. *Energy*, **2013**, 55, 683-692	7.9	43
221	Measurement of nonuniform temperature and concentration distributions by combining line-of-sight tunable diode laser absorption spectroscopy with regularization methods. *Applied Optics*, **2013**, 52, 4827-42	1.7	41
220	MXenes: Synthesis, Optical Properties, and Applications in Ultrafast Photonics. *Small*, **2021**, 17, e2006054	11	41
219	Online Cross-Sectional Monitoring of a Swirling Flame Using TDLAS Tomography. *IEEE Transactions on Instrumentation and Measurement*, **2018**, 67, 1338-1348	5.2	40
218	Effects of ammonia-N exposure on the concentrations of neurotransmitters, hemocyte intracellular signaling pathways and immune responses in white shrimp Litopenaeus vannamei. *Fish and Shellfish Immunology*, **2018**, 75, 48-57	4.3	37
217	Image reconstruction technique of electrical capacitance tomography for low-contrast dielectrics using Calderon's method. *Measurement Science and Technology*, **2009**, 20, 104027	2	37
216	Wet Gas Metering Using a Revised Venturi Meter and Soft-Computing Approximation Techniques. *IEEE Transactions on Instrumentation and Measurement*, **2011**, 60, 947-956	5.2	34
215	. *IEEE Transactions on Instrumentation and Measurement*, **2013**, 62, 1025-1033	5.2	33
214	Control Pulse Combination-Based Analysis of Pulse Train Controlled DCM Switching DC-DC Converters. *IEEE Transactions on Industrial Electronics*, **2015**, 62, 246-255	8.9	30
213	K-Plane-Based Classification of Airborne LiDAR Data for Accurate Building Roof Measurement. *IEEE Transactions on Instrumentation and Measurement*, **2014**, 63, 1200-1214	5.2	30

212	Electrical capacitance tomography with a non-circular sensor using the dbar method. *Measurement Science and Technology*, **2010**, 21, 015502	2	29
211	Solution-processed two-dimensional materials for ultrafast fiber lasers (invited). *Nanophotonics*, **2020**, 9, 2169-2189	6.3	28
210	Terrestrial Laser Scanning Intensity Correction by Piecewise Fitting and Overlap-Driven Adjustment. *Remote Sensing*, **2017**, 9, 1090	5	27
209	A High-Speed Digital Electrical Capacitance Tomography System Combining Digital Recursive Demodulation and Parallel Capacitance Measurement. *IEEE Sensors Journal*, **2017**, 17, 6690-6698	4	26
208	Resolution-doubled one-dimensional wavelength modulation spectroscopy tomography for flame flatness validation of a flat-flame burner. *Applied Physics B: Lasers and Optics*, **2015**, 120, 407-416	1.9	25
207	Electrical impedance tomography with an optimized calculable square sensor. *Review of Scientific Instruments*, **2008**, 79, 103710	1.7	25
206	Influence of Waveform Characteristics on LiDAR Ranging Accuracy and Precision. *Sensors*, **2018**, 18,	3.8	24
205	Frequency-Division Multiplexing and Main Peak Scanning WMS Method for TDLAS Tomography in Flame Monitoring. *IEEE Transactions on Instrumentation and Measurement*, **2020**, 69, 9087-9096	5.2	23
204	Ion current sensing-based lean blowout detection for a pulse combustor. *Combustion and Flame*, **2017**, 176, 263-271	5.3	23
203	Crustacean hyperglycemic hormone (CHH) affects hemocyte intracellular signaling pathways to regulate exocytosis and immune response in white shrimp Litopenaeus vannamei. *Peptides*, **2019**, 116, 30-41	3.8	22
202	Permittivity Reconstruction in Electrical Capacitance Tomography Based on Visual Representation of Deep Neural Network. *IEEE Sensors Journal*, **2020**, 20, 4803-4815	4	22
201	Tunable diode laser absorption spectroscopy-based tomography system for on-line monitoring of two-dimensional distributions of temperature and H2O mole fraction. *Review of Scientific Instruments*, **2016**, 87, 013101	1.7	22
200	Review on wavelength-tunable pulsed fiber lasers based on 2D materials. *Optics and Laser Technology*, **2020**, 131, 106375	4.2	21
199	Effects of crustacean hyperglycemic hormone (CHH) on regulation of hemocyte intracellular signaling pathways and phagocytosis in white shrimp Litopenaeus vannamei. *Fish and Shellfish Immunology*, **2019**, 93, 559-566	4.3	20
198	A high-speed electrical impedance measurement circuit based on information-filtering demodulation. *Measurement Science and Technology*, **2014**, 25, 075010	2	20
197	Optimization of Operating Parameters for Low NOxEmission in High-Temperature Air Combustion. *Energy & Fuels*, **2012**, 26, 2821-2829	4.1	20
196	Wet-Gas Flow Modeling for the Straight Section of Throat-Extended Venturi Meter. *IEEE Transactions on Instrumentation and Measurement*, **2011**, 60, 2080-2087	5.2	20
195	Identification of Oil\Water Flow Patterns in a Vertical Well Using a Dual-Ring Conductance Probe Array. *IEEE Transactions on Instrumentation and Measurement*, **2016**, 65, 1249-1258	5.2	19

194	Detection of Water Leakage in Underground Tunnels Using Corrected Intensity Data and 3D Point Cloud of Terrestrial Laser Scanning. *IEEE Access*, **2018**, 6, 32471-32480	3.5	19
193	Multiple parameters? estimation in horizontal well logging using a conductance-probe array. *Flow Measurement and Instrumentation*, **2014**, 40, 192-198	2.2	18
192	Normalized least-square method for water hold-up measurement in stratified oil water flow. *Flow Measurement and Instrumentation*, **2012**, 27, 71-80	2.2	18
191	A recursive least squares-based demodulator for electrical tomography. *Review of Scientific Instruments*, **2013**, 84, 044704	1.7	18
190	Integral inversion to Fraunhofer diffraction for particle sizing. *Applied Optics*, **2009**, 48, 4842-50	0.2	18
189	A WMS Based TDLAS Tomographic System for Distribution Retrievals of Both Gas Concentration and Temperature in Dynamic Flames. *IEEE Sensors Journal*, **2020**, 20, 4179-4188	4	17
188	A high success rate full-waveform lidar echo decomposition method. *Measurement Science and Technology*, **2016**, 27, 015205	2	17
187	Four-Terminal Imaging Using a Two-Terminal Electrical Impedance Tomography System. *IEEE Transactions on Instrumentation and Measurement*, **2014**, 63, 432-440	5.2	17
186	Direct Image Reconstruction for Electrical Capacitance Tomography Using Shortcut D-Bar Method. *IEEE Transactions on Instrumentation and Measurement*, **2019**, 68, 483-492	5.2	17
185	Direct recovery of the electrical admittivities in 2D electrical tomography by using Calderon's method and two-terminal/electrode excitation strategies. *Measurement Science and Technology*, **2013**, 24, 074007	2	16
184	ell_{1}-Norm-Based Reconstruction Algorithm for Particle Sizing. *IEEE Transactions on Instrumentation and Measurement*, **2012**, 61, 1395-1404	5.2	15
183	Direct Image Reconstruction for 3-D Electrical Resistance Tomography by Using the Factorization Method and Electrodes on a Single Plane. *IEEE Transactions on Instrumentation and Measurement*, **2013**, 62, 999-1007	5.2	15
182	Digital Recursive Demodulator Based on Kalman Filter. *IEEE Transactions on Instrumentation and Measurement*, **2017**, 66, 3138-3147	5.2	15
181	Flame monitoring of a model swirl injector using 1D tunable diode laser absorption spectroscopy tomography. *Measurement Science and Technology*, **2017**, 28, 054002	2	14
180	On the regularization for nonlinear tomographic absorption spectroscopy. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2018**, 206, 233-241	2.1	14
179	Quantitative Evaluation of Impacts of Random Errors on ALS Accuracy Using Multiple Linear Regression Method. *IEEE Transactions on Instrumentation and Measurement*, **2012**, 61, 2242-2252	5.2	14
178	Comparative study of regression modeling methods for online coal calorific value prediction from flame radiation features. *Fuel*, **2015**, 142, 164-172	7.1	14
177	A complex programmable logic device-based high-precision electrical capacitance tomography system. *Measurement Science and Technology*, **2013**, 24, 074006	2	14

176	Wavelet-based removal of sinusoidal interference from a signal. *Measurement Science and Technology*, **2004**, 15, 1779-1786	2	14
175	Recent progress on laser absorption spectroscopy for determination of gaseous chemical species. *Applied Spectroscopy Reviews*,1-41	4.5	14
174	Dual-Modality Electrical Tomography for Flame Monitoring. *IEEE Sensors Journal*, **2018**, 18, 8847-8854	4	14
173	Transcriptome analysis of hemocytes from the white shrimp Litopenaeus vannamei with the injection of dopamine. *Fish and Shellfish Immunology*, **2019**, 94, 497-509	4.3	13
172	A Smart Terrain Identification Technique Based on Electromyography, Ground Reaction Force, and Machine Learning for Lower Limb Rehabilitation. *Applied Sciences (Switzerland)*, **2020**, 10, 2638	2.6	13
171	Influence of Time-Pickoff Circuit Parameters on LiDAR Range Precision. *Sensors*, **2017**, 17,	3.8	13
170	Real-Time In Situ Laser Ranging Based on Online Echo Waveform Fitting. *IEEE Sensors Journal*, **2019**, 19, 9255-9262	4	13
169	Fuel-Type Identification Using Joint Probability Density Arbiter and Soft-Computing Techniques. *IEEE Transactions on Instrumentation and Measurement*, **2012**, 61, 286-296	5.2	13
168	A new method for building roof segmentation from airborne LiDAR point cloud data. *Measurement Science and Technology*, **2013**, 24, 095402	2	13
167	Direct image reconstruction for electrical capacitance tomography by using the enclosure method. *Measurement Science and Technology*, **2011**, 22, 104001	2	13
166	An Improved Algorithm for the Measurement of Flame Oscillation Frequency. *IEEE Transactions on Instrumentation and Measurement*, **2007**, 56, 2087-2093	5.2	13
165	Reconstruction of two-dimensional velocity distribution in scramjet by laser absorption spectroscopy tomography. *Applied Optics*, **2019**, 58, 205-212	1.7	13
164	Iterative Reconstruction Algorithm for Electrical Capacitance Tomography Based on Calderon's Method. *IEEE Sensors Journal*, **2018**, 18, 8450-8462	4	13
163	Co-path full-waveform LiDAR for detection of multiple along-path objects. *Optics and Lasers in Engineering*, **2018**, 111, 211-221	4.6	13
162	Airborne LiDAR: state-of-the-art of system design, technology and application. *Measurement Science and Technology*, **2021**, 32, 032002	2	12
161	Proportional-Integral Controller Modified Landweber Iterative Method for Image Reconstruction in Electrical Capacitance Tomography. *IEEE Sensors Journal*, **2019**, 19, 8790-8802	4	11
160	Modified Landweber algorithm for robust particle sizing by using Fraunhofer diffraction. *Applied Optics*, **2014**, 53, 6185-93	1.7	11
159	2D image reconstruction of a human chest by using Calderon's method and the adjacent current pattern. *Journal of Instrumentation*, **2013**, 8, P03004-P03004	1	11

158	Flexible and Wearable EMG and PSD Sensors Enabled Locomotion Mode Recognition for IoHT-Based In-Home Rehabilitation. *IEEE Sensors Journal*, **2021**, 21, 26311-26319	4	11
157	A Touch Orientation Classification-Based Force/Voltage Responsivity Stabilization Method for Piezoelectric Force Sensing in Interactive Displays. *IEEE Sensors Journal*, **2020**, 20, 8147-8154	4	10
156	Coil shape optimization of the electromagnetic flowmeter for different flow profiles. *Flow Measurement and Instrumentation*, **2014**, 40, 256-262	2.2	10
155	Bidirectional reflectance distribution function based surface modeling of non-Lambertian using intensity data of light detection and ranging. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **2014**, 31, 2055-63	1.8	10
154	Digital signal processor-based high-precision on-line Voigt lineshape fitting for direct absorption spectroscopy. *Review of Scientific Instruments*, **2014**, 85, 123108	1.7	10
153	Empirical modeling for non-Lambertian reflectance based on full-waveform laser detection. *Optical Engineering*, **2013**, 52, 116110	1.1	10
152	A Compact Laser Absorption Spectroscopy Tomographic System With Short Spectral Scanning Time and Adjustable Frame Rate. *IEEE Transactions on Instrumentation and Measurement*, **2020**, 69, 8226-8237	5.2	10
151	An Agile Electrical Capacitance Tomography System With Improved Frame Rates. *IEEE Sensors Journal*, **2019**, 19, 1416-1425	4	10
150	Terrestrial Laser Scanner Autonomous Self-Calibration With No Prior Knowledge of Point-Clouds. *IEEE Sensors Journal*, **2018**, 18, 9277-9285	4	10
149	A Reconfigurable Parallel Data Acquisition System for Tunable Diode Laser Absorption Spectroscopy Tomography. *IEEE Sensors Journal*, **2017**, 17, 8215-8223	4	9
148	. *IEEE Sensors Journal*, **2020**, 20, 7556-7568	4	9
147	Prediction of equivalence ratio in pulse combustor from ion current amplitude spectrum. *Fuel*, **2018**, 218, 179-187	7.1	9
146	FPGA-Based Real-Time Implementation of Temperature Measurement via Tunable Diode Laser Absorption Spectroscopy. *IEEE Sensors Journal*, **2018**, 18, 2751-2758	4	9
145	A Proposal to Compensate Platform Attitude Deviation's Impact on Laser Point Cloud From Airborne LiDAR. *IEEE Transactions on Instrumentation and Measurement*, **2013**, 62, 2549-2558	5.2	9
144	Independent Component Analysis-Based Fuel Type Identification for Coal-Fired Power Plants. *Combustion Science and Technology*, **2012**, 184, 277-292	1.5	9
143	Quantitatively Evaluating Random Attitude Measurement Errors' Impacts on DSM Elevation Accuracy From Airborne Laser Scanning. *IEEE Transactions on Instrumentation and Measurement*, **2013**, 62, 3101-3109	5.2	9
142	Independent and simultaneous effect of crustacean hyperglycemic hormone and dopamine on the hemocyte intracellular signaling pathways and immune responses in white shrimp Litopenaeus vannamei. *Fish and Shellfish Immunology*, **2018**, 83, 262-271	4.3	9
141	Full-waveform LiDAR echo decomposition based on wavelet decomposition and particle swarm optimization. *Measurement Science and Technology*, **2017**, 28, 045205	2	8

140	. *IEEE Journal of the Electron Devices Society*, **2019**, 7, 1018-1025	2.3	8
139	Lean blowout detection for bluff-body stabilized flame. *Fuel*, **2020**, 266, 117008	7.1	8
138	Real-Time Imaging and Holdup Measurement of Carbon Dioxide Under CCS Conditions Using Electrical Capacitance Tomography. *IEEE Sensors Journal*, **2018**, 18, 7551-7559	4	8
137	Signal Demodulation Methods for Electrical Tomography: A Review. *IEEE Sensors Journal*, **2019**, 19, 9026-9035	4	8
136	On-the-Fly Extraction of Polyhedral Buildings From Airborne LiDAR Data. *IEEE Geoscience and Remote Sensing Letters*, **2014**, 11, 1946-1950	4.1	8
135	Terrain slope estimation within footprint from ICESat/GLAS waveform: model and method. *Journal of Applied Remote Sensing*, **2012**, 6, 063534	1.4	8
134	2D electrical capacitance tomography with sensors of non-circular cross sections using the factorization method. *Measurement Science and Technology*, **2011**, 22, 114003	2	8
133	Fiber optic-based laser interferometry array for three-dimensional ultrasound sensing. *Optics Letters*, **2019**, 44, 5852-5855	3	8
132	Passively Q-switched Yb-doped all-fiber laser based on Ag nanoplates as saturable absorber. *Nanophotonics*, **2020**, 9, 3873-3880	6.3	8
131	A Fuzzy PID Controller-Based Two-Axis Compensation Device for Airborne Laser Scanning. *IEEE Sensors Journal*, **2017**, 17, 1353-1362	4	7
130	4-Dimensional Sensing in Interactive Displays Enabled by Both Capacitive and Piezoelectric Based Touch Panel. *IEEE Access*, **2019**, 7, 33787-33794	3.5	7
129	Water cut measurement of oil–water flow in vertical well by combining total flow rate and the response of a conductance probe. *Measurement Science and Technology*, **2015**, 26, 095306	2	7
128	A force–voltage responsivity stabilization method for piezoelectric-based insole gait analysis for high detection accuracy in health monitoring. *International Journal of Distributed Sensor Networks*, **2020**, 16, 155014772090544	1.7	7
127	Estimation of Combustion Temperature Field From the Electrical Admittivity Distribution Obtained by Electrical Tomography. *IEEE Transactions on Instrumentation and Measurement*, **2020**, 69, 6271-6280	5.2	7
126	Surface slope and roughness measurement using ICESat/GLAS elevation and laser waveform. *Measurement Science and Technology*, **2016**, 27, 095202	2	7
125	Lab-built terrestrial laser scanner self-calibration using mounting angle error correction. *Optics Express*, **2018**, 26, 14444-14460	3.3	7
124	Image Reconstruction for Invasive ERT in Vertical Oil Well Logging. *Chinese Journal of Chemical Engineering*, **2012**, 20, 319-328	3.2	7
123	Asymmetrical-Gaussian-Model-Based Laser Echo Detection. *IEEE Sensors Journal*, **2019**, 19, 3797-3806	4	6

122	Edge Effect Analysis and Edge Defect Detection of Titanium Alloy Based on Eddy Current Testing. *Applied Sciences (Switzerland)*, **2020**, 10, 8796	2.6	6
121	Online Gauss–Newton-Based Parallel-Pipeline Method for Real-Time In-Situ Laser Ranging. *IEEE Sensors Journal*, **2020**, 20, 7087-7096	4	6
120	Within-footprint roughness measurements using ICESat/GLAS waveform and LVIS elevation. *Measurement Science and Technology*, **2016**, 27, 125012	2	6
119	Simultaneous Shape and Permittivity Reconstruction in ECT With Sparse Representation: Two-Phase Distribution Imaging. *IEEE Transactions on Instrumentation and Measurement*, **2021**, 70, 1-14	5.2	6
118	Deep Image Refinement Method by Hybrid Training With Images of Varied Quality in Electrical Capacitance Tomography. *IEEE Sensors Journal*, **2021**, 21, 6342-6355	4	6
117	Real-Time 3-D Imaging and Velocity Measurement of Two-Phase Flow Using a Twin-Plane ECT Sensor. *IEEE Transactions on Instrumentation and Measurement*, **2021**, 70, 1-10	5.2	6
116	Multienzyme System in Amorphous Metal–Organic Frameworks for Intracellular Lactate Detection. *Nano Letters*,	11.5	6
115	Digital micro-mirror device-based detector for particle-sizing instruments via Fraunhofer diffraction. *Applied Optics*, **2015**, 54, 5842-9	0.2	5
114	A lamination-based piezoelectric insole gait analysis system for massive production for Internet-of-health things. *International Journal of Distributed Sensor Networks*, **2020**, 16, 155014772090543	1.7	5
113	High Security User Authentication Enabled by Piezoelectric Keystroke Dynamics and Machine Learning. *IEEE Sensors Journal*, **2020**, 20, 13037-13046	4	5
112	Particle sizing from Fraunhofer diffraction pattern using a digital micro-mirror device and a single photodiode. *Powder Technology*, **2018**, 332, 351-358	5.2	5
111	A Recursive Demodulator for Real-Time Measurement of Multiple Sinusoids. *IEEE Sensors Journal*, **2018**, 18, 6281-6289	4	5
110	A chemi-ionization processing approach for characterizing flame flickering behavior **2015**,		5
109	Manchester code telemetry system for well logging using quasi-parallel inductive-capacitive resonance. *Review of Scientific Instruments*, **2014**, 85, 074704	1.7	5
108	A real-time method for DSM generation from airborne LiDAR data **2013**,		5
107	Capacitance-based concentration measurement for gas-particle system with low particles loading. *Flow Measurement and Instrumentation*, **2000**, 11, 185-194	2.2	5
106	GPS-aided method for platform attitude determination based on target images. *Applied Optics*, **2017**, 56, 2378-2387	0.2	5
105	Water holdup measurement of oil–water two-phase flow in a horizontal well using a dual-circle conductance probe array. *Measurement Science and Technology*, **2016**, 27, 115101	2	5

104	Effects of water vapor addition on NO reduction of n-decane/air flames. *Energy Sources, Part A: Recovery, Utilization and Environmental Effects*, **2020**, 42, 1526-1540	1.6	5
103	Soft and plasmonic hydrogel optical probe for glucose monitoring. *Nanophotonics*, **2021**,	6.3	5
102	Online Estimation of Coal Calorific Value from Combustion Radiation for Coal-Fired Boilers. *Combustion Science and Technology*, **2015**, 187, 1487-1503	1.5	4
101	Compressive sensing-based wideband capacitance measurement with a fixed sampling rate lower than the highest exciting frequency. *Measurement Science and Technology*, **2016**, 27, 035006	2	4
100	Real-time terrain classification using ICESat/GLAS data over Beijing area. *Remote Sensing Letters*, **2014**, 5, 591-600	2.3	4
99	Particle size influence on effective permittivity of particle-gas mixture with particle clusters. *Particuology*, **2013**, 11, 216-224	2.8	4
98	Suppression of reverberations at fiber tips for optical ultrasound sensing. *Optics Letters*, **2020**, 45, 2526-2529	3	4
97	Dynamic measurement of gas volume fraction in a CO2 pipeline through capacitive sensing and data driven modelling. *International Journal of Greenhouse Gas Control*, **2020**, 94, 102950	4.2	4
96	. *IEEE Sensors Journal*, **2021**, 1-1	4	4
95	Noise Immune TDLAS Temperature Measurement Through Spectrum Shifting by Using a Mach-Zehnder Interferometer. *IEEE Transactions on Instrumentation and Measurement*, **2021**, 70, 1-9	5.2	4
94	An FPGA-Based On-Chip Neural Network for TDLAS Tomography in Dynamic Flames. *IEEE Transactions on Instrumentation and Measurement*, **2021**, 1-1	5.2	4
93	Conductivity estimation of non-magnetic materials using eddy current method. *Nondestructive Testing and Evaluation*,1-17	2	4
92	Inverse Radon Method Based on Electrical Field Lines for Dual-Modality Electrical Tomography. *IEEE Transactions on Instrumentation and Measurement*, **2020**, 1-1	5.2	3
91	An Iterative Algorithm Based on the Dual Integral Inversion for Particle Sizing. *IEEE Transactions on Instrumentation and Measurement*, **2018**, 67, 1729-1737	5.2	3
90	Compressive sensing for particle size retrieval by using a digital micro-mirror device-based detector. *Powder Technology*, **2016**, 304, 27-31	5.2	3
89	An adaptive algorithm for cross-correlation velocity measurement **2012**,		3
88	Full-waveform LiDAR signal filtering based on Empirical Mode Decomposition method **2013**,		3
87	Electrical resistance tomography(ERT) by using an ECT sensor **2010**,		3

86	Four-terminal scheme used in a two-terminal EIT system **2011**,		3
85	Impact analysis of random measurement errors on airborne laser scanning accuracy **2011**,		3
84	Dual-Channel Pseudorandom Sequence Generator With Precise Time Delay Between Its Two Channels. *IEEE Transactions on Instrumentation and Measurement*, **2008**, 57, 2880-2884	5.2	3
83	Wet Gas Metering Using a Venturi-meter and Neural Networks **2008**,		3
82	?m-resolution thickness distribution measurement of transparent glass films by using a multi-wavelength phase-shift extraction method in the large lateral shearing interferometer. *Optics Express*, **2019**, 27, 2899-2914	3.3	3
81	Spectrum enhanced colour ultrasound (SECU) imaging. *Measurement: Journal of the International Measurement Confederation*, **2020**, 154, 107401	4.6	3
80	Biomedical Applications of Electromagnetic Detection: A Brief Review. *Biosensors*, **2021**, 11,	5.9	3
79	A new simplified mechanism for combustion of RP-3/Jet-A kerosene. *Energy Sources, Part A: Recovery, Utilization and Environmental Effects*, **2020**, 42, 676-687	1.6	3
78	Real-Time In-Situ Laser Ranging via Back Propagation Neural Network on FPGA. *IEEE Sensors Journal*, **2021**, 21, 4664-4673	4	3
77	Super-Resolution Ultrasound Lamb Wave NDE Imaging of Anisotropic Airplane Laminates via Deconvolutional Neural Network. *IEEE Transactions on Instrumentation and Measurement*, **2021**, 70, 1-8	5.2	3
76	A Fuzzy PID-Controlled Iterative Calderon Method for Binary Distribution in Electrical Capacitance Tomography. *IEEE Transactions on Instrumentation and Measurement*, **2021**, 70, 1-11	5.2	3
75	Optimal selection of spectral lines for multispectral absorption tomography. *Applied Physics B: Lasers and Optics*, **2018**, 124, 1	1.9	3
74	Retrieval of Phase and Temperature Distributions in Axisymmetric Flames From Phase-Modulated Large Lateral Shearing Interferogram. *IEEE Transactions on Instrumentation and Measurement*, **2021**, 70, 1-12	5.2	3
73	3-D Image Reconstruction in Planar Array ECT by Combining Depth Estimation and Sparse Representation. *IEEE Transactions on Instrumentation and Measurement*, **2021**, 70, 1-9	5.2	3
72	Factors influencing assessment in a TDC-based ranging system. *Measurement Science and Technology*, **2019**, 30, 125018	2	2
71	Ensemble Learning-Based Technique for Force Classifications in Piezoelectric Touch Panels. *IEEE Sensors Journal*, **2020**, 1-1	4	2
70	Land classification from LiDAR full-waveforms based on multi-class support vector machines **2013**,		2
69	Laser spot center location by using the gradient-based and least square algorithms **2013**,		2

68	Direct image reconstruction for ERT by using measurements on partial boundary **2013**,		2
67	Measurement of axisymmetric temperature distributions using single view fan-beam TDLAS tomography **2013**,		2
66	Comparison of two approaches for land cover classification from ICESat/GLAS waveform data **2017**,		2
65	A high precision method for mapping phase to amplitude in direct digital synthesis and its hardware implementation. *Review of Scientific Instruments*, **2014**, 85, 114704	1.7	2
64	A novel full-waveform LiDAR echo decomposition method and simulation verification **2014**,		2
63	Geometric distortion correction for sinusoidally scanned atomic force microscopic images **2010**,		2
62	On-line identification of fuel type using joint probability density arbiter and support vector machine techniques **2010**,		2
61	Weighting function-based coil size optimization for electromagnetic flowmeter **2011**,		2
60	Wet gas metering using a Venturi-meter and Support Vector Machines **2009**,		2
59	A new cylindrical capacitance sensor for measurement of water cut in a low-production horizontal well. *Journal of Physics: Conference Series*, **2009**, 147, 012002	0.3	2
58	A Modified Noise Model of Electrical Impedance Tomography System by Considering Colored Noises. *IEEE Transactions on Instrumentation and Measurement*, **2022**, 1-1	5.2	2
57	Development of a Wearable Gesture Recognition System Based on Two-terminal Electrical Impedance Tomography. *IEEE Journal of Biomedical and Health Informatics*, **2021**, PP,	7.2	2
56	Improving image reconstruction in electrical capacitance tomography based on deep learning **2019**,		2
55	Effect of stimulation patterns on bladder volume measurement based on fringe effect of EIT sensors **2019**,		2
54	Study of Dynamic Behaviors of Thermoacoustic Oscillations by Using Laser Absorption Spectroscopy. *IEEE Sensors Journal*, **2019**, 19, 12271-12278	4	2
53	A LiDAR data-based camera self-calibration method. *Measurement Science and Technology*, **2018**, 29, 075205	2	2
52	An Eddy Current Testing Method for Thickness and Conductivity Measurement of Non-magnetic Material. *IEEE Sensors Journal*, **2022**, 1-1	4	2
51	Sparse Zernike fitting for dynamic LAS tomographic images of temperature and water vapor concentration. *IEEE Transactions on Instrumentation and Measurement*, **2022**, 1-1	5.2	2

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49	A method for compensating platform attitude fluctuation for helicopter-borne LiDAR: Performance and effectiveness. *Measurement: Journal of the International Measurement Confederation*, **2018**, 125, 37-47	4.6	1
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47	Investigation of Multi-Plane Scheme for Compensation of Fringe Effect of Electrical Resistance Tomography Sensor. *Sensors*, **2019**, 19,	3.8	1
46	Three-dimensional laser absorption spectroscopy velocimetry for high-speed flow diagnosis. *Applied Physics B: Lasers and Optics*, **2019**, 125, 1	1.9	1
45	A federal UKF algorithm in INS/GPS/aerial image integrated attitude determination system **2013**,		1
44	Dew point measurement using a quartz crystal sensor **2013**,		1
43	Support-vector-regression-based prediction of water holdup in horizontal oil-water flow by using a bicircular conductance probe array. *Flow Measurement and Instrumentation*, **2017**, 57, 64-72	2.2	1
42	Projective rectification of infrared images from air-cooled condenser temperature measurement by using projection profile features and cross-ratio invariability. *Applied Optics*, **2014**, 53, 6482-93	1.7	1
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