Lijun Xu

List of Publications by Year
in descending order

311 papers	3,790 citations	147801 31 h-index	223800 46 g-index
311 all docs	311 docs citations	311 times ranked	2211 citing authors

#	Article	IF	Citations
1	An Eddy Current Testing Method for Thickness and Conductivity Measurement of Non-Magnetic Material. IEEE Sensors Journal, 2023, 23, 4445-4454.	4.7	7
2	Conductivity estimation of non-magnetic materials using eddy current method. Nondestructive Testing and Evaluation, 2023, 38, 130-146.	2.1	11
3	A Robust Deconvolution Method of Airborne LiDAR Waveforms for Dense Point Clouds Generation in Forest. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	6.3	4
4	Recent progress on laser absorption spectroscopy for determination of gaseous chemical species. Applied Spectroscopy Reviews, 2022, 57, 112-152.	6.7	40
5	A Modified Adaptive Cross Correlation Method for Flow Rate Measurement of High-Water-Cut Oil-Water Flow Using Planar Flowmeter. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-10.	4.7	3
6	Development of a Wearable Gesture Recognition System Based on Two-Terminal Electrical Impedance Tomography. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 2515-2523.	6.3	10
7	A Modified Noise Model of Electrical Impedance Tomography System by Considering Colored Noises. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-10.	4.7	6
8	Time-Division-Multiplexed Online Gauss-Newton-Based Multi-Echo Decomposition Method for Real-Time In-Situ Laser Ranging. IEEE Sensors Journal, 2022, 22, 4152-4163.	4.7	1
9	A Fabryâ€“Perot Fiber-Optic Array for Photoacoustic Imaging. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-8.	4.7	7
10	B-Spline Based Progressive Decomposition of LiDAR Waveform With Low SNR. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-12.	4.7	3
11	Sparse Zernike Fitting for Dynamic LAS Tomographic Images of Temperature and Water Vapor Concentration. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-14.	4.7	7
12	Direct image reconstruction in electrical tomography and its applications. , 2022, , 389-425.		0
13	Functionalized Macrophage Exosomes with Panobinostat and PPM1Dâ€siRNA for Diffuse Intrinsic Pontine Gliomas Therapy. Advanced Science, 2022, 9, e2200353.	11.2	29
14	Multienzyme System in Amorphous Metalâ€“Organic Frameworks for Intracellular Lactate Detection. Nano Letters, 2022, 22, 5029-5036.	9.1	37
15	A Novel Conductivity Measurement Method for Non-Magnetic Materials Based on Sweep-Frequency Eddy Current Method. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-12.	4.7	14
16	A fast reconstruction strategy to image small objects in electrical tomography. , 2022, , .		1
17	A Interferometer modulated TDLAS Temperature Sensor by using Coherent Demodulation. , 2022, , .		1
18	Temperature Telemetry with Synchronous Distance Detection System based on CM-TDLAS. , 2022, , .		0

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19	Optimization of 3-D Sensor Design for Electrical Capacitance Tomography. , 2022, , .		1
20	Measurement of tube thickness using eddy current testing based on the modified integration range. , 2022, , .		0
21	Optical ultrasound sensing for biomedical imaging. Measurement: Journal of the International Measurement Confederation, 2022, 200, 111620.	5.0	2
22	Damped Gauss-Newton based online ranging for point extraction from low SNR and high overlapping waveforms. Measurement: Journal of the International Measurement Confederation, 2022, 199, 111479.	5.0	9
23	Simultaneous Shape and Permittivity Reconstruction in ECT With Sparse Representation: Two-Phase Distribution Imaging. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-14.	4.7	18
24	Real-Time In-Situ Laser Ranging via Back Propagation Neural Network on FPGA. IEEE Sensors Journal, 2021, 21, 4664-4673.	4.7	6
25	Deep Image Refinement Method by Hybrid Training With Images of Varied Quality in Electrical Capacitance Tomography. IEEE Sensors Journal, 2021, 21, 6342-6355.	4.7	12
26	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.	4.7	5
27	Image Reconstruction Based on Fuzzy Adaptive Kalman Filter in Electrical Capacitance Tomography. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	4.7	5
28	A Concurrent Plantar Stress Sensing and Energy Harvesting Technique by Piezoelectric Insole Device and Rectifying Circuitry. IEEE Sensors Journal, 2021, 21, 26364-26372.	4.7	8
29	A Piezoelectric Force Sensing and Gesture Monitoring-Based Technique for Acupuncture Quantification. IEEE Sensors Journal, 2021, 21, 26337-26344.	4.7	4
30	Noise Immune TDLAS Temperature Measurement Through Spectrum Shifting by Using a Machâ€“Zehnder Interferometer. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-9.	4.7	9
31	Revised Calderon Method of Annular ECT for Imaging Flashback Flame of a Bluff-Body Burner. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	4.7	3
32	A Machine-Learning-Based Touch Orientation Detection Method for Piezoelectric Touch Sensing in Noisy Environment. IEEE Sensors Journal, 2021, 21, 26373-26381.	4.7	4
33	A Fuzzy PID-Controlled Iterative Calderonâ€™s Method for Binary Distribution in Electrical Capacitance Tomography. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	4.7	9
34	MXenes: Synthesis, Optical Properties, and Applications in Ultrafast Photonics. Small, 2021, 17, e2006054.	10.0	119
35	MXenes: MXenes: Synthesis, Optical Properties, and Applications in Ultrafast Photonics (Small 11/2021). Small, 2021, 17, 2170048.	10.0	3
36	Precise wide-band electrical impedance spectroscopy measurement via an ADC operated below the Nyquist sampling rate. Measurement: Journal of the International Measurement Confederation, 2021, 174, 108995.	5.0	2

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37	Absolute Wavenumber Determination for Distributed Feedback Laser from Absorption Spectral Profiles. , 2021, , .		0
38	A Fractional-Order PID Controlled Iterative Calderon's Method for Electrical Capacitance Tomography. , 2021, , .		0
39	Influence of Parameters in Kalman-filter-based Method on Image Quality for Electrical Capacitance Tomography. , 2021, , .		1
40	3D Reconstruction in Planar Array Electrical Capacitance Tomography Based on Depth Estimation and Sparse Representation. , 2021, , .		2
41	Dynamic measurement of thickness distribution in a soap film by using a phase-modulated large lateral shearing interferometer. , 2021, , .		0
42	Online Multi-Target Laser Ranging Using Waveform Decomposition on FPGA. IEEE Sensors Journal, 2021, 21, 10879-10889.	4.7	9
43	Ultra-Low Sampled and High Precision TDLAS Thermometry Via Artificial Neural Network. IEEE Photonics Journal, 2021, 13, 1-9.	2.0	6
44	A multi-target on-line ranging method based on matrix sparsification and a division-free Gaussâ€“Jordan solver. Measurement Science and Technology, 2021, 32, 095207.	2.6	3
45	Biomedical Applications of Electromagnetic Detection: A Brief Review. Biosensors, 2021, 11, 225.	4.7	13
46	Soft and plasmonic hydrogel optical probe for glucose monitoring. Nanophotonics, 2021, 10, 3549-3558.	6.0	23
47	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.	4.7	7
48	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.	4.7	14
49	An FPGA-Based On-Chip Neural Network for TDLAS Tomography in Dynamic Flames. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	4.7	15
50	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.	4.7	23
51	Airborne LiDAR: state-of-the-art of system design, technology and application. Measurement Science and Technology, 2021, 32, 032002.	2.6	29
52	Flexible and Wearable EMG and PSD Sensors Enabled Locomotion Mode Recognition for IoHT-Based In-Home Rehabilitation. IEEE Sensors Journal, 2021, 21, 26311-26319.	4.7	30
53	Tissue Recognition with Deep Ensemble Learning of Ultrasound Wavelet Spectra. , 2021, , .		1
54	Parameter Inversion Based on Levenberg-Marquardt Algorithm for Layered Formation Using Electromagnetic Wave Resistivity Tool. , 2021, , .		1

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55	Temperature imaging of Counterflow Diffusion Flames by using TDLAS Tomography. , 2021, , .		2
56	RBF-based reconstruction method for tomographic imaging of temperature and water vapor concentration in flames. , 2021, , .		0
57	Quasi-Monopole Ultrasound pulse transducer based on Piezoelectric ceramic material. , 2021, , .		0
58	Corn Seedling Monitoring Using 3-D Point Cloud Data From Terrestrial Laser Scanning and Registered Camera Data. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 137-141.	3.1	2
59	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.	2.3	6
60	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.	2.3	4
61	Spectrum enhanced colour ultrasound (SECU) imaging. Measurement: Journal of the International Measurement Confederation, 2020, 154, 107401.	5.0	6
62	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.	4.6	10
63	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.	4.7	24
64	A Compact Noise-Immune TDLAS Temperature Sensor using Intensity Modulation. , 2020, , .		3
65	A flexibly reconfigurable data acquisition system for tunable diode laser absorption spectroscopy. , 2020, , .		0
66	Water holdup prediction of oil-water two-phase flow in horizontal well using a 12-probe conductance array. , 2020, , .		1
67	Edge Effect Analysis and Edge Defect Detection of Titanium Alloy Based on Eddy Current Testing. Applied Sciences (Switzerland), 2020, 10, 8796.	2.5	15
68	Dynamic flashback induced by sound wave in a premixed bluff-body stabilized flame. IOP Conference Series: Earth and Environmental Science, 2020, 546, 042019.	0.3	0
69	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.	4.7	31
70	Ensemble Learning-Based Technique for Force Classifications in Piezoelectric Touch Panels. IEEE Sensors Journal, 2020, , 1-1.	4.7	3
71	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.	4.7	56
72	Review on wavelength-tunable pulsed fiber lasers based on 2D materials. Optics and Laser Technology, 2020, 131, 106375.	4.6	39

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73	Online Gaussâ€“Newton-Based Parallel-Pipeline Method for Real-Time In-Situ Laser Ranging. IEEE Sensors Journal, 2020, 20, 7087-7096.	4.7	11
74	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.	2.2	11
75	A forceâ€“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.	2.2	9
76	A Touch Orientation Classification-Based Forceâ€“Voltage Responsivity Stabilization Method for Piezoelectric Force Sensing in Interactive Displays. IEEE Sensors Journal, 2020, 20, 8147-8154.	4.7	13
77	Solution-processed two-dimensional materials for ultrafast fiber lasers (invited). Nanophotonics, 2020, 9, 2169-2189.	6.0	43
78	A linear temperature extraction method from Voigt lineshape profile in laser absorption spectroscopy. , 2020, , .		1
79	High Security User Authentication Enabled by Piezoelectric Keystroke Dynamics and Machine Learning. IEEE Sensors Journal, 2020, 20, 13037-13046.	4.7	18
80	Inverse Radon Method Based on Electrical Field Lines for Dual-Modality Electrical Tomography. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 8250-8260.	4.7	8
81	A PVDF/Au/PEN Multifunctional Flexible Human-Machine Interface for Multidimensional Sensing and Energy Harvesting for the Internet of Things. IEEE Sensors Journal, 2020, 20, 7556-7568.	4.7	27
82	Permittivity Reconstruction in Electrical Capacitance Tomography Based on Visual Representation of Deep Neural Network. IEEE Sensors Journal, 2020, 20, 4803-4815.	4.7	45
83	Lean blowout detection for bluff-body stabilized flame. Fuel, 2020, 266, 117008.	6.4	15
84	Estimation of Combustion Temperature Field From the Electrical Admittivity Distribution Obtained by Electrical Tomography. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 6271-6280.	4.7	22
85	A Smart Terrain Identification Technique Based on Electromyography, Ground Reaction Force, and Machine Learning for Lower Limb Rehabilitation. Applied Sciences (Switzerland), 2020, 10, 2638.	2.5	19
86	In-vivo histocompatibility and osteogenic potential of biodegradable PLDLA composites containing silica-based bioactive glass fiber. Journal of Biomaterials Applications, 2020, 35, 59-71.	2.4	2
87	Passively Q-switched Yb-doped all-fiber laser based on Ag nanoplates as saturable absorber. Nanophotonics, 2020, 9, 3873-3880.	6.0	22
88	Suppression of reverberations at fiber tips for optical ultrasound sensing. Optics Letters, 2020, 45, 2526.	3.3	12
89	Random vibration-driven continuous-wave CRDS system for calibration-free gas concentration measurement. Optics Letters, 2020, 45, 746.	3.3	2
90	Fiber-optic ultrasound sensor with low reverberating noises. , 2020, , .		0

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91	Investigation of Beam Features of Unidirectional Rayleigh Waves Electromagnetic Acoustic Transducers (EMATs) by a Wholly Analytical Solution. Studies in Applied Electromagnetics and Mechanics, 2020, , .	0.2	0
92	Recent development of electromagnetic wave resistivity tools for loggingâ€whileâ€drilling. Acta Geologica Sinica, 2019, 93, 291-291.	1.4	0
93	Forward solver for deep earth exploration and induction logging using custom built Edgeâ€Element FEM technique. Acta Geologica Sinica, 2019, 93, 302-304.	1.4	3
94	A survey of underground detection methods with a new proposal for urban underground detection. Acta Geologica Sinica, 2019, 93, 322-324.	1.4	0
95	Real-Time In Situ Laser Ranging Based on Online Echo Waveform Fitting. IEEE Sensors Journal, 2019, 19, 9255-9262.	4.7	16
96	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.	3.6	32
97	Investigation of Multi-Plane Scheme for Compensation of Fringe Effect of Electrical Resistance Tomography Sensor. Sensors, 2019, 19, 3132.	3.8	1
98	Three-dimensional laser absorption spectroscopy velocimetry for high-speed flow diagnosis. Applied Physics B: Lasers and Optics, 2019, 125, 1.	2.2	3
99	Signal Demodulation Methods for Electrical Tomography: A Review. IEEE Sensors Journal, 2019, 19, 9026-9035.	4.7	12
100	Investigation of granule moisture measurement by a microwave resonant cavity sensor. , 2019, , .		0
101	Proportionalâ€“Integral Controller Modified Landweber Iterative Method for Image Reconstruction in Electrical Capacitance Tomography. IEEE Sensors Journal, 2019, 19, 8790-8802.	4.7	18
102	A Capacitive Information-Based Force-Voltage Responsivity Stabilization Method for Piezoelectric Touch Panels. IEEE Journal of the Electron Devices Society, 2019, 7, 1018-1025.	2.1	12
103	Fast wavelength modulated TDLAS imaging system for flame monitoring. , 2019, , .		2
104	Transcriptome analysis of hemocytes from the white shrimp Litopenaeus vannamei with the injection of dopamine. Fish and Shellfish Immunology, 2019, 94, 497-509.	3.6	21
105	Factors influencing assessment in a TDC-based ranging system. Measurement Science and Technology, 2019, 30, 125018.	2.6	2
106	Adaptive Selection of Truncation Radius in Calderonâ€™s Method for Direct Image Reconstruction in Electrical Capacitance Tomography. Sensors, 2019, 19, 2014.	3.8	3
107	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.	2.4	23
108	Asymmetrical-Gaussian-Model-Based Laser Echo Detection. IEEE Sensors Journal, 2019, 19, 3797-3806.	4.7	8

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109	4-Dimensional Sensing in Interactive Displays Enabled by Both Capacitive and Piezoelectric Based Touch Panel. IEEE Access, 2019, 7, 33787-33794.	4.2	11
110	A robust Doppler shift-based velocimetry via using tuable diode laser absorption spectroscopy. , 2019, , .		0
111	Verification for Electrical Tomography in Flame Monitoring by Ion Probe. , 2019, , .		4
112	Excitation Patterns in 3D Electrical Impedance Tomography for Breast Imaging. , 2019, , .		2
113	Improving image reconstruction in electrical capacitance tomography based on deep learning. , 2019, , .		2
114	Effect of stimulation patterns on bladder volume measurement based on fringe effect of EIT sensors. , 2019, , .		4
115	A Multi-frequency WMS Method for Tunable Diode Laser Absorption Spectroscopy Tomography. , 2019, , .		0
116	Study of Dynamic Behaviors of Thermoacoustic Oscillations by Using Laser Absorption Spectroscopy. IEEE Sensors Journal, 2019, 19, 12271-12278.	4.7	4
117	Full-waveform LiDAR Echo Filtering Based on Blind Source Separation. , 2019, , .		0
118	Direct Image Reconstruction for Electrical Capacitance Tomography Using Shortcut D-Bar Method. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 483-492.	4.7	24
119	Automatic Registration Method for TLS LiDAR Data and Image-Based Reconstructed Data. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 482-486.	3.1	1
120	An Agile Electrical Capacitance Tomography System With Improved Frame Rates. IEEE Sensors Journal, 2019, 19, 1416-1425.	4.7	16
121	Special Section on Imaging Systems and Techniques 2017. Measurement Science and Technology, 2019, 30, 020103.	2.6	0
122	Laser absorption spectroscopy for combustion diagnosis in reactive flows: A review. Applied Spectroscopy Reviews, 2019, 54, 1-44.	6.7	140
123	Reconstruction of two-dimensional velocity distribution in scramjet by laser absorption spectroscopy tomography. Applied Optics, 2019, 58, 205.	1.8	23
124	?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.	3.4	6
125	Fiber optic-based laser interferometry array for three-dimensional ultrasound sensing. Optics Letters, 2019, 44, 5852.	3.3	15
126	Online Cross-Sectional Monitoring of a Swirling Flame Using TDLAS Tomography. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 1338-1348.	4.7	79

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127	Particle sizing from Fraunhofer diffraction pattern using a digital micro-mirror device and a single photodiode. Powder Technology, 2018, 332, 351-358.	4.2	7
128	Prediction of equivalence ratio in pulse combustor from ion current amplitude spectrum. Fuel, 2018, 218, 179-187.	6.4	13
129	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.	3.6	50
130	FPGA-Based Real-Time Implementation of Temperature Measurement via Tunable Diode Laser Absorption Spectroscopy. IEEE Sensors Journal, 2018, 18, 2751-2758.	4.7	12
131	On the regularization for nonlinear tomographic absorption spectroscopy. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 206, 233-241.	2.3	23
132	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.	5.0	1
133	An Iterative Algorithm Based on the Dual Integral Inversion for Particle Sizing. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 1729-1737.	4.7	3
134	Special section on imaging systems and techniques 2016. Measurement Science and Technology, 2018, 29, 050101.	2.6	1
135	Eccentric Design of Fabry-Perot Interferometer for High Sensitivity and Broadband Ultrasound Sensing. , 2018, , .		0
136	Dynamic Characterization of Pulse Combustion by Image Series Processing. IEEE Sensors Journal, 2018, 18, 9682-9690.	4.7	4
137	Compensation for fringe effect of electrical resistance tomography sensor by multiple-plane sensor scheme. , 2018, , .		0
138	Color ultrasound imaging and detection technique based on nonlinear spectra. , 2018, , .		1
139	Terrestrial Laser Scanner Autonomous Self-Calibration With No Prior Knowledge of Point-Clouds. IEEE Sensors Journal, 2018, 18, 9277-9285.	4.7	16
140	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.	3.6	11
141	Dual-Modality Electrical Tomography for Flame Monitoring. IEEE Sensors Journal, 2018, 18, 8847-8854.	4.7	27
142	Optimal selection of spectral lines for multispectral absorption tomography. Applied Physics B: Lasers and Optics, 2018, 124, 1.	2.2	4
143	Iterative Reconstruction Algorithm for Electrical Capacitance Tomography Based on Calderonâ€™s Method. IEEE Sensors Journal, 2018, 18, 8450-8462.	4.7	18
144	Co-path full-waveform LiDAR for detection of multiple along-path objects. Optics and Lasers in Engineering, 2018, 111, 211-221.	3.8	20

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145	A LiDAR data-based camera self-calibration method. Measurement Science and Technology, 2018, 29, 075205.	2.6	3
146	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.	4.2	32
147	Lab-built terrestrial laser scanner self-calibration using mounting angle error correction. Optics Express, 2018, 26, 14444.	3.4	8
148	Influence of Waveform Characteristics on LiDAR Ranging Accuracy and Precision. Sensors, 2018, 18, 1156.	3.8	42
149	A Recursive Demodulator for Real-Time Measurement of Multiple Sinusoids. IEEE Sensors Journal, 2018, 18, 6281-6289.	4.7	8
150	Real-Time Imaging and Holdup Measurement of Carbon Dioxide Under CCS Conditions Using Electrical Capacitance Tomography. IEEE Sensors Journal, 2018, 18, 7551-7559.	4.7	17
151	A Reconfigurable Parallel Data Acquisition System for Tunable Diode Laser Absorption Spectroscopy Tomography. IEEE Sensors Journal, 2017, 17, 8215-8223.	4.7	15
152	Flame monitoring of a model swirl injector using 1D tunable diode laser absorption spectroscopy tomography. Measurement Science and Technology, 2017, 28, 054002.	2.6	27
153	Full-waveform LiDAR echo decomposition based on wavelet decomposition and particle swarm optimization. Measurement Science and Technology, 2017, 28, 045205.	2.6	16
154	A Fuzzy PID Controller-Based Two-Axis Compensation Device for Airborne Laser Scanning. IEEE Sensors Journal, 2017, 17, 1353-1362.	4.7	11
155	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.	2.0	5
156	Distribution retrieval of temperature from its histograms via the tunable diode laser absorption spectroscopy. , 2017, , .		2
157	LiDAR Ranging System Based on Automatic Gain Control and Timing Discriminators. , 2017, , .		2
158	Reconstruction of two-dimensional temperature distribution in swirling flames using TDLAS-based tomography. , 2017, , .		4
159	Point cloud acquisition using target image-aided attitude determination method. , 2017, , .		0
160	Ion current sensing-based lean blowout detection for a pulse combustor. Combustion and Flame, 2017, 176, 263-271.	5.2	34
161	Ultrasonic spectral analysis for biomedical imaging. , 2017, , .		1
162	An image processing approach for characterizing working frequency of pulse combustion. , 2017, , .		1

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163	Digital Recursive Demodulator Based on Kalman Filter. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 3138-3147.	4.7	21
164	Land cover classification from ICESat/GLAS waveform data. , 2017, , .		2
165	Leaf moisture content measurement using polarized active imaging LiDAR. , 2017, , .		1
166	A High-Speed Digital Electrical Capacitance Tomography System Combining Digital Recursive Demodulation and Parallel Capacitance Measurement. IEEE Sensors Journal, 2017, 17, 6690-6698.	4.7	46
167	Comparison of two approaches for land cover classification from ICESat/GLAS waveform data. , 2017, , .		2
168	Terrestrial Laser Scanning Intensity Correction by Piecewise Fitting and Overlap-Driven Adjustment. Remote Sensing, 2017, 9, 1090.	4.0	32
169	Influence of Time-Pickoff Circuit Parameters on LiDAR Range Precision. Sensors, 2017, 17, 2369.	3.8	14
170	Local integrated absorbance tomography based on revised iterative reconstruction-reprojection algorithm. , 2017, , .		0
171	GPS-aided method for platform attitude determination based on target images. Applied Optics, 2017, 56, 2378.	2.1	5
172	Effects of views and spectral lines numbers on hyperspectral temperature distribution tomography. , 2016, , .		0
173	Reconstruction of temperature distribution for swirling flames using one-dimensional TDLAS tomography. , 2016, , .		0
174	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.	1.3	35
175	Water holdup measurement of oilâ€“water two-phase flow in a horizontal well using a dual-circle conductance probe array. Measurement Science and Technology, 2016, 27, 115101.	2.6	7
176	Within-footprint roughness measurements using ICESat/GLAS waveform and LVIS elevation. Measurement Science and Technology, 2016, 27, 125012.	2.6	7
177	Identification of Oilâ€“Water Flow Patterns in a Vertical Well Using a Dual-Ring Conductance Probe Array. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 1249-1258.	4.7	25
178	Compressive sensing for particle size retrieval by using a digital micro-mirror device-based detector. Powder Technology, 2016, 304, 27-31.	4.2	3
179	Optical design of high resolution and shared aperture electro-optical/infrared sensor for UAV remote sensing applications. , 2016, , .		1
180	Surface slope and roughness measurement using ICESat/GLAS elevation and laser waveform. Measurement Science and Technology, 2016, 27, 095202.	2.6	9

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181	Optical design of common aperture and high resolution electro-optical/infrared system for aerial imaging applications. Proceedings of SPIE, 2016, , .	0.8	2
182	Compressive sensing-based wideband capacitance measurement with a fixed sampling rate lower than the highest exciting frequency. Measurement Science and Technology, 2016, 27, 035006.	2.6	4
183	A high success rate full-waveform lidar echo decomposition method. Measurement Science and Technology, 2016, 27, 015205.	2.6	19
184	A chemi-ionization processing approach for characterizing flame flickering behavior. , 2015, , .		5
185	A simplified PIV-based method for flame velocity distribution measurement. , 2015, , .		0
186	A noncontact conductivity detection method based on the principle of electromagnetic induction. , 2015, , .		0
187	Identification of oil-water flow patterns using conductance probe in vertical well. , 2015, , .		1
188	Comparative study of regression modeling methods for online coal calorific value prediction from flame radiation features. Fuel, 2015, 142, 164-172.	6.4	17
189	Performance analysis of a digital capacitance measuring circuit. Review of Scientific Instruments, 2015, 86, 054703.	1.3	62
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