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	Laser absorption spectroscopy for combustion diagnosis in reactive flows: A review. Applied Spectroscopy Reviews, 2019, 54, 1-44.	6.7	140
2	MXenes: Synthesis, Optical Properties, and Applications in Ultrafast Photonics. Small, 2021, 17, e2006054.	10.0	119
3	Development of a fan-beam TDLAS-based tomographic sensor for rapid imaging of temperature and gas concentration. Optics Express, 2015, 23, 22494.	3.4	104
4	Application of ultrasonic tomography to monitoring gas/liquid flow. Chemical Engineering Science, 1997, 52, 2171-2183.	3.8	86
5	Online Cross-Sectional Monitoring of a Swirling Flame Using TDLAS Tomography. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 1338-1348.	4.7	79
6	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.	4.7	68
7	Performance analysis of a digital capacitance measuring circuit. Review of Scientific Instruments, 2015, 86, 054703.	1.3	62
8	Comparative study of computational intelligence approaches for NOx reduction of coal-fired boiler. Energy, 2013, 55, 683-692.	8.8	58
9	Electrical Capacitance Tomography for Sensors of Square Cross Sections Using Calderon's Method. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 900-907.	4.7	56
10	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.	1.8	56
11	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
12	Identification of two-phase flow regimes in horizontal, inclined and vertical pipes. Measurement Science and Technology, 2001, 12, 1069-1075.	2.6	54
13	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
14	Image reconstruction technique of electrical capacitance tomography for low-contrast dielectrics using Calderon's method. Measurement Science and Technology, 2009, 20, 104027.	2.6	46
15	Wet Gas Metering Using a Revised Venturi Meter and Soft-Computing Approximation Techniques. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 947-956.	4.7	46
16	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
17	Permittivity Reconstruction in Electrical Capacitance Tomography Based on Visual Representation of Deep Neural Network. IEEE Sensors Journal, 2020, 20, 4803-4815.	4.7	45
18	Solution-processed two-dimensional materials for ultrafast fiber lasers (invited). Nanophotonics, 2020, 9, 2169-2189.	6.0	43

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19	Influence of Waveform Characteristics on LiDAR Ranging Accuracy and Precision. Sensors, 2018, 18, 1156.	3.8	42
20	Control Pulse Combination-Based Analysis of Pulse Train Controlled DCM Switching DCâ€“DC Converters. IEEE Transactions on Industrial Electronics, 2015, 62, 246-255.	7.9	40
21	Recent progress on laser absorption spectroscopy for determination of gaseous chemical species. Applied Spectroscopy Reviews, 2022, 57, 112-152.	6.7	40
22	K-Plane-Based Classification of Airborne LiDAR Data for Accurate Building Roof Measurement. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 1200-1214.	4.7	39
23	Review on wavelength-tunable pulsed fiber lasers based on 2D materials. Optics and Laser Technology, 2020, 131, 106375.	4.6	39
24	Electrical capacitance tomography with a non-circular sensor using the dbar method. Measurement Science and Technology, 2010, 21, 015502.	2.6	38
25	A Digital Switching Demodulator for Electrical Capacitance Tomography. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 1025-1033.	4.7	38
26	Multienzyme System in Amorphous Metalâ€“Organic Frameworks for Intracellular Lactate Detection. Nano Letters, 2022, 22, 5029-5036.	9.1	37
27	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.	2.2	36
28	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
29	Ion current sensing-based lean blowout detection for a pulse combustor. Combustion and Flame, 2017, 176, 263-271.	5.2	34
30	Terrestrial Laser Scanning Intensity Correction by Piecewise Fitting and Overlap-Driven Adjustment. Remote Sensing, 2017, 9, 1090.	4.0	32
31	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
32	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
33	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
34	Electrical impedance tomography with an optimized calculable square sensor. Review of Scientific Instruments, 2008, 79, 103710.	1.3	30
35	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
36	Airborne LiDAR: state-of-the-art of system design, technology and application. Measurement Science and Technology, 2021, 32, 032002.	2.6	29

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37	Functionalized Macrophage Exosomes with Panobinostat and PPM1Dâ€siRNA for Diffuse Intrinsic Pontine Gliomas Therapy. Advanced Science, 2022, 9, e2200353.	11.2	29
38	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
39	Dual-Modality Electrical Tomography for Flame Monitoring. IEEE Sensors Journal, 2018, 18, 8847-8854.	4.7	27
40	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
41	A high-speed electrical impedance measurement circuit based on information-filtering demodulation. Measurement Science and Technology, 2014, 25, 075010.	2.6	26
42	Wet-Gas Flow Modeling for the Straight Section of Throat-Extended Venturi Meter. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 2080-2087.	4.7	25
43	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
44	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
45	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
46	Wavelet-based removal of sinusoidal interference from a signal. Measurement Science and Technology, 2004, 15, 1779-1786.	2.6	23
47	Normalized least-square method for water hold-up measurement in stratified oilâ€“water flow. Flow Measurement and Instrumentation, 2012, 27, 71-80.	2.0	23
48	On the regularization for nonlinear tomographic absorption spectroscopy. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 206, 233-241.	2.3	23
49	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
50	Soft and plasmonic hydrogel optical probe for glucose monitoring. Nanophotonics, 2021, 10, 3549-3558.	6.0	23
51	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
52	Reconstruction of two-dimensional velocity distribution in scramjet by laser absorption spectroscopy tomography. Applied Optics, 2019, 58, 205.	1.8	23
53	Optimization of Operating Parameters for Low NO_x Emission in High-Temperature Air Combustion. Energy & Fuels, 2012, 26, 2821-2829.	5.1	22
54	Four-Terminal Imaging Using a Two-Terminal Electrical Impedance Tomography System. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 432-440.	4.7	22

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55	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
56	Passively Q-switched Yb-doped all-fiber laser based on Ag nanoplates as saturable absorber. Nanophotonics, 2020, 9, 3873-3880.	6.0	22
57	Multiple parameters×3 estimation in horizontal well logging using a conductance-probe array. Flow Measurement and Instrumentation, 2014, 40, 192-198.	2.0	21
58	Digital Recursive Demodulator Based on Kalman Filter. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 3138-3147.	4.7	21
59	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
60	An Improved Algorithm for the Measurement of Flame Oscillation Frequency. IEEE Transactions on Instrumentation and Measurement, 2007, 56, 2087-2093.	4.7	20
61	A new method for building roof segmentation from airborne LiDAR point cloud data. Measurement Science and Technology, 2013, 24, 095402.	2.6	20
62	Co-path full-waveform LiDAR for detection of multiple along-path objects. Optics and Lasers in Engineering, 2018, 111, 211-221.	3.8	20
63	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.	4.7	19
64	A recursive least squares-based demodulator for electrical tomography. Review of Scientific Instruments, 2013, 84, 044704.	1.3	19
65	A high success rate full-waveform lidar echo decomposition method. Measurement Science and Technology, 2016, 27, 015205.	2.6	19
66	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
67	Integral inversion to Fraunhofer diffraction for particle sizing. Applied Optics, 2009, 48, 4842.	2.1	18
68	Direct image reconstruction for electrical capacitance tomography by using the enclosure method. Measurement Science and Technology, 2011, 22, 104001.	2.6	18
69	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.	2.6	18
70	Coil shape optimization of the electromagnetic flowmeter for different flow profiles. Flow Measurement and Instrumentation, 2014, 40, 256-262.	2.0	18
71	Iterative Reconstruction Algorithm for Electrical Capacitance Tomography Based on Calderonâ€™s Method. IEEE Sensors Journal, 2018, 18, 8450-8462.	4.7	18
72	Proportionalâ€“Integral Controller Modified Landweber Iterative Method for Image Reconstruction in Electrical Capacitance Tomography. IEEE Sensors Journal, 2019, 19, 8790-8802.	4.7	18

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73	High Security User Authentication Enabled by Piezoelectric Keystroke Dynamics and Machine Learning. IEEE Sensors Journal, 2020, 20, 13037-13046.	4.7	18
74	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
75	ell_{1}-Norm-Based Reconstruction Algorithm for Particle Sizing. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 1395-1404.	4.7	17
76	Comparative study of regression modeling methods for online coal calorific value prediction from flame radiation features. Fuel, 2015, 142, 164-172.	6.4	17
77	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
78	A complex programmable logic device-based high-precision electrical capacitance tomography system. Measurement Science and Technology, 2013, 24, 074006.	2.6	16
79	Full-waveform LiDAR echo decomposition based on wavelet decomposition and particle swarm optimization. Measurement Science and Technology, 2017, 28, 045205.	2.6	16
80	Terrestrial Laser Scanner Autonomous Self-Calibration With No Prior Knowledge of Point-Clouds. IEEE Sensors Journal, 2018, 18, 9277-9285.	4.7	16
81	Real-Time In Situ Laser Ranging Based on Online Echo Waveform Fitting. IEEE Sensors Journal, 2019, 19, 9255-9262.	4.7	16
82	An Agile Electrical Capacitance Tomography System With Improved Frame Rates. IEEE Sensors Journal, 2019, 19, 1416-1425.	4.7	16
83	Fuel-Type Identification Using Joint Probability Density Arbiter and Soft-Computing Techniques. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 286-296.	4.7	15
84	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.	4.7	15
85	A Reconfigurable Parallel Data Acquisition System for Tunable Diode Laser Absorption Spectroscopy Tomography. IEEE Sensors Journal, 2017, 17, 8215-8223.	4.7	15
86	Edge Effect Analysis and Edge Defect Detection of Titanium Alloy Based on Eddy Current Testing. Applied Sciences (Switzerland), 2020, 10, 8796.	2.5	15
87	Lean blowout detection for bluff-body stabilized flame. Fuel, 2020, 266, 117008.	6.4	15
88	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
89	Fiber optic-based laser interferometry array for three-dimensional ultrasound sensing. Optics Letters, 2019, 44, 5852.	3.3	15
90	Modified Landweber algorithm for robust particle sizing by using Fraunhofer diffraction. Applied Optics, 2014, 53, 6185.	1.8	14

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91	Digital signal processor-based high-precision on-line Voigt lineshape fitting for direct absorption spectroscopy. Review of Scientific Instruments, 2014, 85, 123108.	1.3	14
92	Influence of Time-Pickoff Circuit Parameters on LiDAR Range Precision. Sensors, 2017, 17, 2369.	3.8	14
93	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
94	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
95	Empirical modeling for non-Lambertian reflectance based on full-waveform laser detection. Optical Engineering, 2013, 52, 116110.	1.0	13
96	2D image reconstruction of a human chest by using Calderon's method and the adjacent current pattern. Journal of Instrumentation, 2013, 8, P03004-P03004.	1.2	13
97	On-the-Fly Extraction of Polyhedral Buildings From Airborne LiDAR Data. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 1946-1950.	3.1	13
98	Prediction of equivalence ratio in pulse combustor from ion current amplitude spectrum. Fuel, 2018, 218, 179-187.	6.4	13
99	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
100	Biomedical Applications of Electromagnetic Detection: A Brief Review. Biosensors, 2021, 11, 225.	4.7	13
101	Capacitance-based concentration measurement for gas-particle system with low particles loading. Flow Measurement and Instrumentation, 2000, 11, 185-194.	2.0	12
102	FPGA-Based Real-Time Implementation of Temperature Measurement via Tunable Diode Laser Absorption Spectroscopy. IEEE Sensors Journal, 2018, 18, 2751-2758.	4.7	12
103	Signal Demodulation Methods for Electrical Tomography: A Review. IEEE Sensors Journal, 2019, 19, 9026-9035.	4.7	12
104	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
105	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
106	Suppression of reverberations at fiber tips for optical ultrasound sensing. Optics Letters, 2020, 45, 2526.	3.3	12
107	Image Reconstruction for Invasive ERT in Vertical Oil Well Logging. Chinese Journal of Chemical Engineering, 2012, 20, 319-328.	3.5	11
108	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.	4.7	11

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109	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.	4.7	11
110	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.	1.5	11
111	A Fuzzy PID Controller-Based Two-Axis Compensation Device for Airborne Laser Scanning. IEEE Sensors Journal, 2017, 17, 1353-1362.	4.7	11
112	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
113	4-Dimensional Sensing in Interactive Displays Enabled by Both Capacitive and Piezoelectric Based Touch Panel. IEEE Access, 2019, 7, 33787-33794.	4.2	11
114	Online Gaussâ€“Newton-Based Parallel-Pipeline Method for Real-Time In-Situ Laser Ranging. IEEE Sensors Journal, 2020, 20, 7087-7096.	4.7	11
115	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
116	Conductivity estimation of non-magnetic materials using eddy current method. Nondestructive Testing and Evaluation, 2023, 38, 130-146.	2.1	11
117	Terrain slope estimation within footprint from ICESat/GLAS waveform: model and method. Journal of Applied Remote Sensing, 2012, 6, 063534.	1.3	10
118	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
119	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
120	Independent Component Analysisâ€“Based Fuel Type Identification for Coal-Fired Power Plants. Combustion Science and Technology, 2012, 184, 277-292.	2.3	9
121	Surface slope and roughness measurement using ICESat/GLAS elevation and laser waveform. Measurement Science and Technology, 2016, 27, 095202.	2.6	9
122	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
123	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
124	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
125	Online Multi-Target Laser Ranging Using Waveform Decomposition on FPGA. IEEE Sensors Journal, 2021, 21, 10879-10889.	4.7	9
126	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

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127	Dual-Channel Pseudorandom Sequence Generator With Precise Time Delay Between Its Two Channels. IEEE Transactions on Instrumentation and Measurement, 2008, 57, 2880-2884.	4.7	8
128	2D electrical capacitance tomography with sensors of non-circular cross sections using the factorization method. Measurement Science and Technology, 2011, 22, 114003.	2.6	8
129	A real-time method for DSM generation from airborne LiDAR data. , 2013, , .		8
130	Water cut measurement of oilâ€“water flow in vertical well by combining total flow rate and the response of a conductance probe. Measurement Science and Technology, 2015, 26, 095306.	2.6	8
131	Lab-built terrestrial laser scanner self-calibration using mounting angle error correction. Optics Express, 2018, 26, 14444.	3.4	8
132	A Recursive Demodulator for Real-Time Measurement of Multiple Sinusoids. IEEE Sensors Journal, 2018, 18, 6281-6289.	4.7	8
133	Asymmetrical-Gaussian-Model-Based Laser Echo Detection. IEEE Sensors Journal, 2019, 19, 3797-3806.	4.7	8
134	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
135	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
136	Particle size influence on effective permittivity of particleâ€“gas mixture with particle clusters. Particuology, 2013, 11, 216-224.	3.6	7
137	Digital micro-mirror device-based detector for particle-sizing instruments via Fraunhofer diffraction. Applied Optics, 2015, 54, 5842.	2.1	7
138	Online Estimation of Coal Calorific Value from Combustion Radiation for Coal-Fired Boilers. Combustion Science and Technology, 2015, 187, 1487-1503.	2.3	7
139	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
140	Within-footprint roughness measurements using ICESat/GLAS waveform and LVIS elevation. Measurement Science and Technology, 2016, 27, 125012.	2.6	7
141	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
142	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
143	A Fabryâ€“Perot Fiber-Optic Array for Photoacoustic Imaging. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-8.	4.7	7
144	An Eddy Current Testing Method for Thickness and Conductivity Measurement of Non-Magnetic Material. IEEE Sensors Journal, 2023, 23, 4445-4454.	4.7	7

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145	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
146	Simulation on impact of random attitude measurement errors on point cloud and 3D image of ALS. , 2011, , .		6
147	Manchester code telemetry system for well logging using quasi-parallel inductive-capacitive resonance. Review of Scientific Instruments, 2014, 85, 074704.	1.3	6
148	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
149	Spectrum enhanced colour ultrasound (SECU) imaging. Measurement: Journal of the International Measurement Confederation, 2020, 154, 107401.	5.0	6
150	Real-Time In-Situ Laser Ranging via Back Propagation Neural Network on FPGA. IEEE Sensors Journal, 2021, 21, 4664-4673.	4.7	6
151	Ultra-Low Sampled and High Precision TDLAS Thermometry Via Artificial Neural Network. IEEE Photonics Journal, 2021, 13, 1-9.	2.0	6
152	?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
153	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
154	Wet Gas Metering Using a Venturi-meter and Neural Networks. , 2008, , .		5
155	Electrical resistance tomography(ERT) by using an ECT sensor. , 2010, , .		5
156	An adaptive algorithm for cross-correlation velocity measurement. , 2012, , .		5
157	Full-waveform LiDAR signal filtering based on Empirical Mode Decomposition method. , 2013, , .		5
158	Real-time terrain classification using ICESat/GLAS data over Beijing area. Remote Sensing Letters, 2014, 5, 591-600.	1.4	5
159	A chemi-ionization processing approach for characterizing flame flickering behavior. , 2015, , .		5
160	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
161	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
162	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

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163	GPS-aided method for platform attitude determination based on target images. Applied Optics, 2017, 56, 2378.	2.1	5
164	On-line fuel identification using optical sensing and Support Vector Machines technique. , 2009, , .		4
165	Direct image reconstruction for 3D electrical resistance tomography by using the factorization method. , 2012, , .		4
166	Estimation of cluster centers on building roof from LiDAR footprints. , 2012, , .		4
167	Laser spot center location by using the gradient-based and least square algorithms. , 2013, , .		4
168	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
169	Reconstruction of two-dimensional temperature distribution in swirling flames using TDLAS-based tomography. , 2017, , .		4
170	Dynamic Characterization of Pulse Combustion by Image Series Processing. IEEE Sensors Journal, 2018, 18, 9682-9690.	4.7	4
171	Optimal selection of spectral lines for multispectral absorption tomography. Applied Physics B: Lasers and Optics, 2018, 124, 1.	2.2	4
172	Verification for Electrical Tomography in Flame Monitoring by Ion Probe. , 2019, , .		4
173	Effect of stimulation patterns on bladder volume measurement based on fringe effect of EIT sensors. , 2019, , .		4
174	Study of Dynamic Behaviors of Thermoacoustic Oscillations by Using Laser Absorption Spectroscopy. IEEE Sensors Journal, 2019, 19, 12271-12278.	4.7	4
175	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
176	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
177	A Piezoelectric Force Sensing and Gesture Monitoring-Based Technique for Acupuncture Quantification. IEEE Sensors Journal, 2021, 21, 26337-26344.	4.7	4
178	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
179	Wet gas metering using a Venturi-meter and Support Vector Machines. , 2009, , .		3
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