Ke-Jun Xu

List of Publications by Year
in descending order

52 papers	502 citations	687335 13 h-index	794568 19 g-index
52 all docs	52 docs citations	52 times ranked	311 citing authors

#	Article	IF	Citations
1	Error correction method for in-situ calibration of permanent magnet sodium flowmeter without bluff body based on low-frequency suppression. Measurement: Journal of the International Measurement Confederation, 2022, 187, 110347.	5.0	2
2	Parameter Identification Method for Transient Impact Interference of Vortex Sensor Based on Optimal Estimation of Objective Function. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-10.	4.7	1
3	<i>In Situ</i> Calibration of a Permanent-Magnet Sodium Flowmeter Without a Bluff Body Based on Multi-Pair Electrode Signal Subtraction. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-10.	4.7	3
4	Calculation and judgment of repeatability error affected by non-linearity correction based on flowmeter characteristic analysis. Measurement: Journal of the International Measurement Confederation, 2022, 196, 111251.	5.0	4
5	Adaptive filtering based sodium flow measurement method for in-situ calibration. Annals of Nuclear Energy, 2021, 150, 107865.	1.8	3
6	Research on Nonlinearity in <i>In situ</i> Calibration of Permanent Magnet Sodium Flowmeter Without Bluff Body. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-14.	4.7	4
7	Signal processing method based on connection fitting of echo peak point with a large slope for ultrasonic gas flow meter. Review of Scientific Instruments, 2021, 92, 015105.	1.3	3
8	Multi-variable classification model for valve internal leakage based on acoustic emission time–frequency domain characteristics and random forest. Review of Scientific Instruments, 2021, 92, 025108.	1.3	4
9	Mixed multiple‐variable modelling of acoustic emission signals for valve internal leakage detection. IET Science, Measurement and Technology, 2021, 15, 487-498.	1.6	0
10	Applications of digital signal processing methods in TOF calculation of ultrasonic gas flowmeter. Flow Measurement and Instrumentation, 2021, 79, 101932.	2.0	7
11	Signal processing method of bubble detection in sodium flow based on inverse Fourier transform to calculate energy ratio. Nuclear Engineering and Technology, 2021, 53, 3122-3125.	2.3	3
12	Transducer analysis and signal processing of PMSF with embedded bluff body. Nuclear Engineering and Technology, 2020, 52, 296-307.	2.3	7
13	Phase-frequency characteristic based measurement of sodium flow rate using PMSF with embedded bluff body. Annals of Nuclear Energy, 2020, 135, 106996.	1.8	6
14	Signal processing method based on energy ratio for detecting leakage of SG using EVFM. Nuclear Engineering and Technology, 2020, 52, 1677-1688.	2.3	4
15	Frequency fluctuation coefficient based bubbles detection method in sodium flow with electromagnetic vortex flowmeter. Nuclear Engineering and Design, 2020, 365, 110710.	1.7	1
16	Dynamic compensation method based on system identification and error-overrun mode correction for strain force sensor. Mechanical Systems and Signal Processing, 2020, 140, 106649.	8.0	11
17	Multivariable modeling of valve inner leakage acoustic emission signal based on Gaussian process. Mechanical Systems and Signal Processing, 2020, 140, 106675.	8.0	20
18	Relationship between performance indexes and offset angles of virtual phasor measurement algorithm based on DFT. IET Generation, Transmission and Distribution, 2020, 14, 2779-2789.	2.5	0

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19	Nonlinear characteristics analysis of sodium flow measurement based on the principle of turbulent fluctuation. Nuclear Engineering and Design, 2020, 368, 110834.	1.7	4
20	SVM based measurement method and implementation of gas-liquid two-phase flow for CMF. Measurement: Journal of the International Measurement Confederation, 2019, 145, 160-171.	5.0	9
21	Floor noise based bubble detection method in sodium using EVFM. Nuclear Engineering and Design, 2019, 355, 110287.	1.7	5
22	Peak-to-peak standard deviation based bubble detection method in sodium flow with electromagnetic vortex flowmeter. Review of Scientific Instruments, 2019, 90, 065105.	1.3	6
23	Bubble detection in sodium flow using EVFM and correlation coefficient calculation. Annals of Nuclear Energy, 2019, 129, 472-481.	1.8	8
24	Echo signal envelope fitting based signal processing methods for ultrasonic gas flow-meter. ISA Transactions, 2019, 89, 233-244.	5.7	13
25	Error analysis and new dual-cosine window for estimating the sensor frequency response function from the step response data. Review of Scientific Instruments, 2018, 89, 035002.	1.3	4
26	Energy peak fitting of echo based signal processing method for ultrasonic gas flow meter. Measurement: Journal of the International Measurement Confederation, 2018, 117, 41-48.	5.0	23
27	Standard deviation based acoustic emission signal analysis for detecting valve internal leakage. Sensors and Actuators A: Physical, 2018, 283, 340-347.	4.1	38
28	Transient process based electromagnetic flow measurement methods and implementation. Review of Scientific Instruments, 2018, 89, 095108.	1.3	13
29	Echo energy integral based signal processing method for ultrasonic gas flow meter. Sensors and Actuators A: Physical, 2018, 277, 181-189.	4.1	22
30	Variable ratio threshold and zero-crossing detection based signal processing method for ultrasonic gas flow meter. Measurement: Journal of the International Measurement Confederation, 2017, 103, 343-352.	5.0	39
31	Mathematical model of time difference for Coriolis flow sensor output signals under gas-liquid two-phase flow. Measurement: Journal of the International Measurement Confederation, 2017, 95, 345-354.	5.0	6
32	A Frequency Correcting Method Combining Bilateral Correction With Weighted Average for Vortex Flow Sensor Signal. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 2711-2724.	4.7	5
33	Energy transfer model and its applications of ultrasonic gas flow-meter under static and dynamic flow rates. Review of Scientific Instruments, 2016, 87, 015107.	1.3	13
34	Mathematical Modeling of Ultrasonic Gas Flow Meter Based on Experimental Data in Three Steps. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 1726-1738.	4.7	23
35	Signal Processing Method Based on First-Order Derivative and Multifeature Parameters Combined With Reference Curve for GWRLG. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 3423-3433.	4.7	2
36	Feature Patterns Extraction-Based Amplitude/Frequency Modulation Model for Vortex Flow Sensor Output Signal. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 3031-3044.	4.7	9

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37	SWT based separation method for periodic signal with non-stationary noise and its application in EMF. Flow Measurement and Instrumentation, 2015, 42, 78-88.	2.0	8
38	Numerical Derivation-Based Serial Iterative Dynamic Decoupling-Compensation Method for Multiaxis Force Sensors. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 2950-2962.	4.7	7
39	Gasâ€"Liquid Two-Phase Flow Correction Method for Digital CMF. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 2396-2404.	4.7	18
40	Statistical modeling and signal reconstruction processing method of EMF for slurry flow measurement. Measurement: Journal of the International Measurement Confederation, 2014, 54, 1-13.	5.0	12
41	Frequency-Variance Based Antistrong Vibration Interference Method for Vortex Flow Sensor. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 1566-1582.	4.7	14
42	A DSP-based signal processing method and system for CMF. Measurement: Journal of the International Measurement Confederation, 2013, 46, 2184-2192.	5.0	7
43	An echo signal processing method without reference curve for guided wave radar level gauge. , 2013, , .		5
44	Development of Coriolis mass flowmeter with digital drive and signal processing technology. ISA Transactions, 2013, 52, 692-700.	5.7	20
45	Note: Anti-strong-disturbance signal processing method of vortex flowmeter with two sensors. Review of Scientific Instruments, 2011, 82, 096105.	1.3	9
46	Frequency-feature based antistrong-disturbance signal processing method and system for vortex flowmeter with single sensor. Review of Scientific Instruments, 2010, 81, 075104.	1.3	17
47	Identification and application of the signal model for the electromagnetic flowmeter under sinusoidal excitation. Measurement Science and Technology, 2007, 18, 1973-1978.	2.6	6
48	Signal modeling of electromagnetic flowmeter under sine wave excitation using two-stage fitting method. Sensors and Actuators A: Physical, 2007, 136, 137-143.	4.1	10
49	Dynamic Modeling and Compensation of Robot Six-Axis Wrist Force/Torque Sensor. IEEE Transactions on Instrumentation and Measurement, 2007, 56, 2094-2100.	4.7	37
50	Experimental modeling of sensor signal for electromagnetic flowmeter with sinusoidal excitation. Review of Scientific Instruments, 2006, 77, 114702.	1.3	3
51	DATA FUSION OF ROBOT WRIST FORCES BASED ON FINGER FORCE SENSORS AND MLF NEURAL NETWORK. International Journal of Information Acquisition, 2005, 02, 101-111.	0.2	0
52	Estimation of wrist force/torque using data fusion of finger force sensors. Measurement: Journal of the International Measurement Confederation, 2004, 36, 11-19.	5.0	4