

# Yanzhang Wang

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	A High-Accuracy CO <sub>2</sub> Carbon Isotope Sensing System Using Subspace Identification of Hammerstein Model for Geochemical Application. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-9.	4.7	6
2	Deep Learning and Machine Vision-Based Inspection of Rail Surface Defects. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-14.	4.7	17
3	Segmentation of Track Surface Defects Based on Machine Vision and Neural Networks. IEEE Sensors Journal, 2022, 22, 1571-1582.	4.7	14
4	A High Dynamic Range and Ultralow-Noise Bipolar Current Source for Unshielded SERF Atomic Magnetometers. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-8.	4.7	0
5	A Prototype of CH <sub>4</sub> and CO <sub>2</sub> Sensing System Using State Parameters Correction Applied to Gas Geochemical Exploration. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-10.	4.7	0
6	A Temperature Gradient Field Compensation Method to Improve the Accuracy of the CO <sub>2</sub> Carbon Isotope Sensor. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-12.	4.7	1
7	Auto-Design of Multi-Pass Cell With Small Size and Long Optical Path Length Using Parallel Multi-Population Genetic Algorithm. IEEE Sensors Journal, 2022, 22, 6518-6527.	4.7	2
8	Optical Design and Verification of Multipass Cell With Two Spherical Mirrors Using Space Equation Method. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-8.	4.7	4
9	Sensitivity Model for Residence Times Difference Fluxgate Magnetometers Near Zero Magnetic Field. IEEE Sensors Journal, 2020, 20, 868-875.	4.7	6
10	Reducing Motion-Induced Noise With Mechanically Resonant Coil Sensor in a Rigid Helicopter Transient Electromagnetic System. IEEE Transactions on Industrial Electronics, 2020, 67, 2391-2401.	7.9	20
11	A Prototype of High-Precision Carbon Isotopic Ratio Sensing System for CO <sub>2</sub> , Dissolved in Water. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 9813-9821.	4.7	8
12	Design of Cable Parallel Air-Core Coil Sensor to Reduce Motion-Induced Noise in Helicopter Transient Electromagnetic System. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 525-532.	4.7	24
13	Performance Degradation Effect Countermeasures in Residence Times Difference (RTD) Fluxgate Magnetic Sensors. IEEE Sensors Journal, 2019, 19, 11819-11827.	4.7	10
14	A Fast Identification on the Spin-Exchange Relaxation-Free Regime of Atomic Magnetometer Exploiting Measurement on Gyromagnetic Ratio. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 1157-1164.	4.7	22
15	Sensitivity and Resolution Enhancement of Coupled-Core Fluxgate Magnetometer by Negative Feedback. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 623-631.	4.7	7
16	Numerical Optimization of the Tube-Cored Induction Magnetometer Weight Under Specific Noise Constraints. IEEE Sensors Journal, 2017, 17, 3302-3308.	4.7	6
17	Optimized Design and Calibration of the Triaxis Induction Magnetometer with Crosstalk and Nonorthogonality Compensation. Journal of Sensors, 2016, 2016, 1-8.	1.1	2