

Xudong Zheng

List of Publications by Year in descending order

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Version: 2024-02-01

17
papers

103
citations

1478505

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1372567

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17
all docs

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17
times ranked

55
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Fuzzy sliding-mode control of the electrostatically tuned quasi-zero stiffness MEMS accelerometer. , 2022, , . | | 0 |
| 2 | Temperature drift compensation of a tuned low stiffness MEMS accelerometer based on double-sided parallel plates. , 2022, , . | | 1 |
| 3 | Linear stiffness tuning of MEMS triangular capacitors. , 2021, , . | | 1 |
| 4 | Effects of both the drive- and sense-mode circuit phase delay on MEMS gyroscope performance and real-time suppression of the residual fluctuation phase error. Journal of Micromechanics and Microengineering, 2021, 31, 055006. | 2.6 | 6 |
| 5 | Pull-In Dynamics of Two MEMS Parallel-Plate Structures for Acceleration Measurement. IEEE Sensors Journal, 2021, 21, 17686-17694. | 4.7 | 16 |
| 6 | A 0.09°/h Bias-Instability MEMS Gyroscope Working With a Fixed Resonance Frequency. IEEE Sensors Journal, 2021, 21, 23787-23798. | 4.7 | 5 |
| 7 | Performance Improvement for MEMS Gyroscopes by Suppressing the Circuit Phase Delay. , 2021, , . | | 0 |
| 8 | Stabilization Control of a MEMS Accelerometer With Tuned Quasi-Zero Stiffness. IEEE Sensors Journal, 2021, 21, 27361-27373. | 4.7 | 10 |
| 9 | Effects of Structural Dimension Variation on the Vibration of MEMS Ring-Based Gyroscopes. Micromachines, 2021, 12, 1483. | 2.9 | 4 |
| 10 | Linear parametric amplification/attenuation for MEMS vibratory gyroscopes based on triangular area-varying capacitors. Journal of Micromechanics and Microengineering, 2020, 30, 045010. | 2.6 | 16 |
| 11 | Linear Parametric Amplification /Attenuation Without Spring Hardening /Softening Effect in MEMS Gyroscopes. , 2020, , . | | 5 |
| 12 | Characteristics of phase delay in capacitive pick-off circuits for MEMS resonators. Electronics Letters, 2019, 55, 461-463. | 1.0 | 6 |
| 13 | A Novel Amplitude-Phase Information Extraction Architecture for MEMS Vibratory Gyroscopes Using a Modified Double Side-Band Demodulation Configuration. , 2018, , . | | 5 |
| 14 | An Improved Phase-Robust Configuration for Vibration Amplitude-Phase Extraction for Capacitive MEMS Gyroscopes. Micromachines, 2018, 9, 362. | 2.9 | 6 |
| 15 | A novel oscillation control for MEMS vibratory gyroscopes using a modified electromechanical amplitude modulation technique. Journal of Micromechanics and Microengineering, 2017, 27, 025005. | 2.6 | 10 |
| 16 | Temperature-dependence improvement for a MEMS gyroscope using triangular-electrode based capacitive detection method. Micro and Nano Letters, 2017, 12, 828-833. | 1.3 | 6 |
| 17 | A novel triangular-electrode based capacitive sensing method for MEMS resonant devices. Sensors and Actuators A: Physical, 2016, 252, 233-241. | 4.1 | 6 |