

Xudong Zheng

List of Publications by Year in descending order

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Version: 2024-02-01

17
papers

103
citations

1478505

6
h-index

1372567

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all docs

17
docs citations

17
times ranked

55
citing authors

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