

Rong Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

211
citations

1307594

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1058476

14
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all docs

25
docs citations

25
times ranked

219
citing authors

#	ARTICLE	IF	CITATIONS
1	A Novel Single-Excitation Capacitive Angular Position Sensor Design. <i>Sensors</i> , 2016, 16, 1196.	3.8	32
2	A Novel MEMS Gyro North Finder Design Based on the Rotation Modulation Technique. <i>Sensors</i> , 2017, 17, 973.	3.8	32
3	Optimal Design of a Center Support Quadruple Mass Gyroscope (CSQMG). <i>Sensors</i> , 2016, 16, 613.	3.8	23
4	Design, Optimization, and Compensation of a High-Precision Single-Excitation Absolute Capacitance Angular Encoder up to $\pm 4^\circ$. <i>IEEE Transactions on Industrial Electronics</i> , 2019, 66, 8161-8171.	7.9	22
5	A capacitive rotary encoder with a novel sensitive electrode. , 2017, , .		14
6	High-Precision Incremental Capacitive Angle Encoder Developed by Micro Fabrication Technology. <i>IEEE Transactions on Industrial Electronics</i> , 2021, 68, 6318-6327.	7.9	11
7	An Analog Interface Circuit for Capacitive Angle Encoder Based on a Capacitance Elimination Array and Synchronous Switch Demodulation Method. <i>Sensors</i> , 2019, 19, 3116.	3.8	8
8	Periodic Nonlinear Error Analysis and Compensation of a Single-Excited Petal-Shaped Capacitive Encoder to Achieve High-Accuracy Measurement. <i>Sensors</i> , 2019, 19, 2412.	3.8	8
9	Performance and Evaluation of GNSS Receiver Vector Tracking Loop Based on Adaptive Cascade Filter. <i>Remote Sensing</i> , 2021, 13, 1477.	4.0	8
10	Self-Calibration of Angular Position Sensors by Signal Flow Networks. <i>Sensors</i> , 2018, 18, 2513.	3.8	7
11	Self-Calibration of Nonlinear Signal Model for Angular Position Sensors by Model-Based Automatic Search Algorithm. <i>Sensors</i> , 2019, 19, 2760.	3.8	7
12	Design and Implementation of an On-Chip Low-Power and High-Flexibility System for Data Acquisition and Processing of an Inertial Measurement Unit. <i>Sensors</i> , 2020, 20, 462.	3.8	7
13	A Novel Method for Fast Stationary Initial Alignment Based on Extended Measurement Information. <i>IEEE Access</i> , 2019, 7, 165873-165883.	4.2	6
14	A Full 360° Measurement Range Liquid Capacitive Inclinometer With a Triple- Eccentric-Ring Sensing Element and Differential Detection Scheme. <i>IEEE Transactions on Industrial Electronics</i> , 2020, 67, 4216-4225.	7.9	5
15	An Auto-Tuning Continuous-Time Bandpass Sigma-Delta Modulator with Signal Observation for MEMS Gyroscope Readout Systems. <i>Sensors</i> , 2020, 20, 1973.	3.8	5
16	Nonlinear Error Compensation of Capacitive Angular Encoders Based on Improved Particle Swarm Optimization Support Vector Machines. <i>IEEE Access</i> , 2020, 8, 124265-124274.	4.2	4
17	Accuracy comparison of GNSS vector and scalar tracking loop. , 2014, , .		2
18	A Complementary Recycling Operational Transconductance Amplifier with Data-Driven Enhancement of Transconductance. <i>Electronics (Switzerland)</i> , 2019, 8, 1457.	3.1	2

#	ARTICLE	IF	CITATIONS
19	Thermal Deformation Suppression Chip Based on Material Symmetry Design for Single Center Supported MEMS Devices. IEEE Access, 2020, 8, 43314-43324.	4.2	2
20	A Digital-Analog Hybrid System-on-Chip for Capacitive Sensor Measurement and Control. Sensors, 2021, 21, 431.	3.8	2
21	Design and Implementation of a System-on-Chip for Self-Calibration of an Angular Position Sensor. Applied Sciences (Switzerland), 2019, 9, 4772.	2.5	1
22	Design of Digital Demodulation Circuit for Closed Loop Control of Resonant MEMS Gyroscopes. , 2019, , .		1
23	Exploration and Research of Human Identification Scheme Based on Inertial Data. Sensors, 2020, 20, 3444.	3.8	1
24	Design of Variable Damping INS for Ships Based on the Variation of Reference Velocity Error. Journal of Sensors, 2021, 2021, 1-15.	1.1	1
25	Online Nonlinear Error Compensation Circuit Based on Neural Networks. Machines, 2021, 9, 151.	2.2	0