

Yan-Zheng Bai

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

550
citations

759233

12
h-index

642732

23
g-index

31
all docs

31
docs citations

31
times ranked

259
citing authors

#	ARTICLE	IF	CITATIONS
1	The TianQin project: Current progress on science and technology. <i>Progress of Theoretical and Experimental Physics</i> , 2021, 2021, .	6.6	129
2	The first round result from the TianQin-1 satellite. <i>Classical and Quantum Gravity</i> , 2020, 37, 185013.	4.0	68
3	Research and Development of Electrostatic Accelerometers for Space Science Missions at HUST. <i>Sensors</i> , 2017, 17, 1943.	3.8	37
4	Resonant frequency detection and adjustment method for a capacitive transducer with differential transformer bridge. <i>Review of Scientific Instruments</i> , 2014, 85, 055001.	1.3	33
5	High resolution space quartz-flexure accelerometer based on capacitive sensing and electrostatic control technology. <i>Review of Scientific Instruments</i> , 2012, 83, 095002.	1.3	30
6	Performance measurements of an inertial sensor with a two-stage controlled torsion pendulum. <i>Classical and Quantum Gravity</i> , 2010, 27, 205016.	4.0	28
7	Measurements of temporal and spatial variation of surface potential using a torsion pendulum and a scanning conducting probe. <i>Physical Review D</i> , 2014, 90, .	4.7	22
8	Capacitive position measurement for high-precision space inertial sensor. <i>Frontiers of Physics in China</i> , 2009, 4, 205-208.	1.0	21
9	Seismic noise limit for ground-based performance measurements of an inertial sensor using a torsion balance. <i>Classical and Quantum Gravity</i> , 2010, 27, 175012.	4.0	21
10	Design and validation of a high-voltage levitation circuit for electrostatic accelerometers. <i>Review of Scientific Instruments</i> , 2013, 84, 125004.	1.3	16
11	Investigation of charge management using UV LED device with a torsion pendulum for TianQin. <i>Classical and Quantum Gravity</i> , 2020, 37, 115005.	4.0	16
12	Analyses of residual accelerations for TianQin based on the global MHD simulation. <i>Classical and Quantum Gravity</i> , 2020, 37, 185017.	4.0	14
13	A charge control method for space-mission inertial sensor using differential UV LED emission. <i>Review of Scientific Instruments</i> , 2020, 91, 124502.	1.3	12
14	Electrostatic-control performance measurement of the inertial sensor with a torsion pendulum. <i>Journal of Physics: Conference Series</i> , 2009, 154, 012036.	0.4	11
15	Self-calibration method of the bias of a space electrostatic accelerometer. <i>Review of Scientific Instruments</i> , 2016, 87, 114502.	1.3	11
16	Amplitude stability analysis and experimental investigation of an AC excitation signal for capacitive sensors. <i>Sensors and Actuators A: Physical</i> , 2020, 309, 112020.	4.1	10
17	A Novel Controller Design for the Next Generation Space Electrostatic Accelerometer Based on Disturbance Observation and Rejection. <i>Sensors</i> , 2017, 17, 21.	3.8	8
18	Measurements of Magnetic Properties of Kilogram-Level Test Masses for Gravitational-Wave Detection Using a Torsion Pendulum. <i>Physical Review Applied</i> , 2021, 15, .	3.8	8

#	ARTICLE	IF	CITATIONS
19	PROGRESS OF GROUND TEST OF INERTIAL SENSOR FOR ASTROD I. International Journal of Modern Physics D, 2008, 17, 985-992.	2.1	7
20	Identification and compensation of quadratic terms of a space electrostatic accelerometer. Review of Scientific Instruments, 2018, 89, 114502.	1.3	7
21	Drag-free control design and in-orbit validation of TianQin-1 satellite. Classical and Quantum Gravity, 2022, 39, 155001.	4.0	7
22	A low-frequency vibration insensitive pendulum bench based on translation-tilt compensation in measuring the performances of inertial sensors. Classical and Quantum Gravity, 2015, 32, 195016.	4.0	6
23	Location effect and adjustment scheme of the translation-tilt compensation bench for accelerometer performance investigation. Classical and Quantum Gravity, 2019, 36, 235023.	4.0	6
24	Noise investigation of an electrostatic accelerometer by a high-voltage levitation method combined with a translation-tilt compensation pendulum bench. Review of Scientific Instruments, 2021, 92, 064502.	1.3	5
25	Non-gravitational force measurement and correction by a precision inertial sensor of TianQin-1 satellite. Classical and Quantum Gravity, 2022, 39, 115005.	4.0	5
26	Investigation on Stray-Capacitance Influences of Coaxial Cables in Capacitive Transducers for a Space Inertial Sensor. Sensors, 2020, 20, 3233.	3.8	4
27	Coupling efficiency improvement of light source with a convex lens for space charge managements. Optik, 2021, 248, 167999.	2.9	4
28	A torque type full tensor gravity gradiometer based on a flexure-strip suspension. Review of Scientific Instruments, 2020, 91, 064501.	1.3	2
29	A Continuous Charge Estimation for Gravitational Wave Detections. , 2021, , .		2
30	Analytical Evaluating for Aliasing Error of Inductive Oil Debris Detection. , 2019, , .		0
31	GROUND-BASED STUDY OF AN INERTIAL SENSOR WITH AN ELECTROSTATIC-CONTROLLED TORSION PENDULUM. , 2010, , .		0