Yan-Zheng Bai

List of Publications by Year
in descending order

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	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
2	Drag-free control design and in-orbit validation of TianQin-1 satellite. Classical and Quantum Gravity, 2022, 39, 155001.	4.0	7
3	The TianQin project: Current progress on science and technology. Progress of Theoretical and Experimental Physics, 2021, 2021, .	6.6	129
4	Measurements of Magnetic Properties of Kilogram-Level Test Masses for Gravitational-Wave Detection Using a Torsion Pendulum. Physical Review Applied, 2021, 15, .	3.8	8
5	Noise investigation of an electrostatic accelerometer by a high-voltage levitation method combined with a translationâ€“tilt compensation pendulum bench. Review of Scientific Instruments, 2021, 92, 064502.	1.3	5
6	A Continuous Charge Estimation for Gravitational Wave Detections. , 2021, , .		2
7	Coupling efficiency improvement of light source with a convex lens for space charge managements. Optik, 2021, 248, 167999.	2.9	4
8	The first round result from the TianQin-1 satellite. Classical and Quantum Gravity, 2020, 37, 185013.	4.0	68
9	A torque type full tensor gravity gradiometer based on a flexure-strip suspension. Review of Scientific Instruments, 2020, 91, 064501.	1.3	2
10	Investigation on Stray-Capacitance Influences of Coaxial Cables in Capacitive Transducers for a Space Inertial Sensor. Sensors, 2020, 20, 3233.	3.8	4
11	Investigation of charge management using UV LED device with a torsion pendulum for TianQin. Classical and Quantum Gravity, 2020, 37, 115005.	4.0	16
12	Amplitude stability analysis and experimental investigation of an AC excitation signal for capacitive sensors. Sensors and Actuators A: Physical, 2020, 309, 112020.	4.1	10
13	Analyses of residual accelerations for TianQin based on the global MHD simulation. Classical and Quantum Gravity, 2020, 37, 185017.	4.0	14
14	A charge control method for space-mission inertial sensor using differential UV LED emission. Review of Scientific Instruments, 2020, 91, 124502.	1.3	12
15	Analytical Evaluating for Aliasing Error of Inductive Oil Debris Detection. , 2019, , .		0
16	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
17	Identification and compensation of quadratic terms of a space electrostatic accelerometer. Review of Scientific Instruments, 2018, 89, 114502.	1.3	7
18	A Novel Controller Design for the Next Generation Space Electrostatic Accelerometer Based on Disturbance Observation and Rejection. Sensors, 2017, 17, 21.	3.8	8

#	ARTICLE	IF	CITATIONS
19	Research and Development of Electrostatic Accelerometers for Space Science Missions at HUST. Sensors, 2017, 17, 1943.	3.8	37
20	Self-calibration method of the bias of a space electrostatic accelerometer. Review of Scientific Instruments, 2016, 87, 114502.	1.3	11
21	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
22	Measurements of temporal and spatial variation of surface potential using a torsion pendulum and a scanning conducting probe. Physical Review D, 2014, 90, .	4.7	22
23	Resonant frequency detection and adjustment method for a capacitive transducer with differential transformer bridge. Review of Scientific Instruments, 2014, 85, 055001.	1.3	33
24	Design and validation of a high-voltage levitation circuit for electrostatic accelerometers. Review of Scientific Instruments, 2013, 84, 125004.	1.3	16
25	High resolution space quartz-flexure accelerometer based on capacitive sensing and electrostatic control technology. Review of Scientific Instruments, 2012, 83, 095002.	1.3	30
26	Performance measurements of an inertial sensor with a two-stage controlled torsion pendulum. Classical and Quantum Gravity, 2010, 27, 205016.	4.0	28
27	Seismic noise limit for ground-based performance measurements of an inertial sensor using a torsion balance. Classical and Quantum Gravity, 2010, 27, 175012.	4.0	21
28	GROUND-BASED STUDY OF AN INERTIAL SENSOR WITH AN ELECTROSTATIC-CONTROLLED TORSION PENDULUM. , 2010, , .		0
29	Capacitive position measurement for high-precision space inertial sensor. Frontiers of Physics in China, 2009, 4, 205-208.	1.0	21
30	Electrostatic-control performance measurement of the inertial sensor with a torsion pendulum. Journal of Physics: Conference Series, 2009, 154, 012036.	0.4	11
31	PROGRESS OF GROUND TEST OF INERTIAL SENSOR FOR ASTROD I. International Journal of Modern Physics D, 2008, 17, 985-992.	2.1	7