Yuan Ren

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/7731801/publications.pdf Version: 2024-02-01



| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | High-Precision Control for a Single-Gimbal Magnetically Suspended Control Moment Gyro Based on Inverse System Method. IEEE Transactions on Industrial Electronics, 2011, 58, 4331-4342. | 7.9 | 118 |
| 2 | Decoupling Control of Magnetically Suspended Rotor System in Control Moment Gyros Based on an Inverse System Method. IEEE/ASME Transactions on Mechatronics, 2012, 17, 1133-1144. | 5.8 | 103 |
| 3 | Current-Sensing Resistor Design to Include Current Derivative in PWM H-Bridge Unipolar Switching Power Amplifiers for Magnetic Bearings. IEEE Transactions on Industrial Electronics, 2012, 59, 4590-4600. | 7.9 | 72 |
| 4 | Whirling Modes Stability Criterion for a Magnetically Suspended Flywheel Rotor With Significant Gyroscopic Effects and Bending Modes. IEEE Transactions on Power Electronics, 2013, 28, 5890-5901. | 7.9 | 63 |
| 5 | Attitude-Rate Measurement and Control Integration Using Magnetically Suspended Control and Sensitive Gyroscopes. IEEE Transactions on Industrial Electronics, 2018, 65, 4921-4932. | 7.9 | 59 |
| 6 | Self-Adaptive Phase-Lead Compensation Based on Unsymmetrical Current Sampling Resistance Network for Magnetic Bearing Switching Power Amplifiers. IEEE Transactions on Industrial Electronics, 2012, 59, 1218-1227. | 7.9 | 58 |
| 7 | Influence of lateral misalignment on the optical rotational Doppler effect. Applied Optics, 2019, 58, 2650. | 1.8 | 56 |
| 8 | Detection of spinning objects at oblique light incidence using the optical rotational Doppler effect. Optics Express, 2019, 27, 24781. | 3.4 | 53 |
| 9 | High-Precision and Strong-Robustness Control for an MSCMG Based on Modal Separation and Rotation Motion Decoupling Strategy. IEEE Transactions on Industrial Electronics, 2014, 61, 1539-1551. | 7.9 | 51 |
| 10 | A Two-Stage Synchronous Vibration Control for Magnetically Suspended Rotor System in the Full Speed Range. IEEE Transactions on Industrial Electronics, 2020, 67, 480-489. | 7.9 | 42 |
| 11 | Nutation and Precession Stability Criterion of Magnetically Suspended Rigid Rotors With Gyroscopic Effects Based on Positive and Negative Frequency Characteristics. IEEE Transactions on Industrial Electronics, 2014, 61, 2003-2014. | 7.9 | 39 |
| 12 | Spacecraft Angular Rates and Angular Acceleration Estimation Using Single-Gimbal Magnetically Suspended Control Moment Gyros. IEEE Transactions on Industrial Electronics, 2019, 66, 440-450. | 7.9 | 34 |
| 13 | High-Stability and Fast-Response Twisting Motion Control for the Magnetically Suspended Rotor System in a Control Moment Gyro. IEEE/ASME Transactions on Mechatronics, 2013, 18, 1625-1634. | 5.8 | 33 |
| 14 | Spacecraft Vibration Control Based on Extended Modal Decoupling of Vernier-Gimballing Magnetically Suspension Flywheels. IEEE Transactions on Industrial Electronics, 2020, 67, 4066-4076. | 7.9 | 21 |
| 15 | Generating a new type of polygonal perfect optical vortex. Optics Express, 2021, 29, 14126. | 3.4 | 19 |
| 16 | Free vibration analysis of a spinning piezoelectric beam with geometric nonlinearities. Acta Mechanica Sinica/Lixue Xuebao, 2019, 35, 879-893. | 3.4 | 17 |
| 17 | Modal decoupling control for a double gimbal magnetically suspended control moment gyroscope based on modal controller and feedback linearization method. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2014, 228, 2303-2313. | 2.1 | 13 |
| 18 | A High Precision Attitude Measurement Method for Spacecraft Based on Magnetically Suspended Rotor Tilt Modulation. IEEE Sensors Journal, 2020, 20, 14882-14891. | 4.7 | 12 |

Yuan Ren

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Modeling and Performance Investigation of a Piezoelectric Vibrating Gyroscope. IEEE Sensors Journal, 2019, 19, 9832-9840. | 4.7 | 10 |
| 20 | Spacecraft vibration suppression based on micro-gimbal moment of magnetically suspended flywheel with dynamic feedback and feedforward decoupling control. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2018, 232, 3881-3896. | 2.1 | 9 |
| 21 | MTF-CRNN: Multiscale Time-Frequency Convolutional Recurrent Neural Network for Sound Event Detection. IEEE Access, 2020, 8, 147337-147348. | 4.2 | 9 |
| 22 | A Novel Attitude Angular Velocity Measurement Method Based on Mass Unbalance Vibration Suppression of Magnetic Bearing. IEEE Sensors Journal, 2022, 22, 7717-7726. | 4.7 | 9 |
| 23 | Spacecraft attitude control and vibration suppression integration based on single gimbal magnetically suspended control moment gyroscope pyramid configuration. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2019, 233, 2673-2684. | 2.1 | 8 |
| 24 | A Measurement Method of Torque Coefficient for Magnetically Suspended Control and Sensitive Gyroscope. IEEE Sensors Journal, 2021, 21, 14767-14775. | 4.7 | 8 |
| 25 | A Review of Redundant Inertial Navigation Technology. , 2021, , . | | 8 |
| 26 | Rotation Modes Stability Analysis and Phase Compensation for Magnetically Suspended Flywheel Systems with Cross Feedback Controller and Time Delay. Mathematical Problems in Engineering, 2016, 2016, 1-10. | 1.1 | 7 |
| 27 | High Precision Attitude-Rate Measurement of Magnetically Suspended Control and Sensing Gyroscope Using Variational Mode Decomposition and Wavelet Transform. IEEE Sensors Journal, 2022, 22, 1188-1198. | 4.7 | 7 |
| 28 | Complex-Coefficient Frequency Domain Stability Analysis Method for a Class of Cross-Coupled Antisymmetrical Systems and Its Extension in MSR Systems. Mathematical Problems in Engineering, 2014, 2014, 1-11. | 1.1 | 6 |
| 29 | Accuracy Improvement of a Redundant Inertial Measurement Unit Brought about by the Dual-Axis Rotational Motion. , 2021, , . | | 6 |
| 30 | Data Fusion in Redundant Inertial Measurement Unit Using a Fruit-Fly-Optimized Weighted Least Squares Algorithm. IEEE Sensors Journal, 2021, 21, 27612-27622. | 4.7 | 6 |
| 31 | Analysis, Modeling and Compensation of Dynamic Imbalance Error for a Magnetically Suspended Sensitive Gyroscope. Journal of Magnetics, 2016, 21, 529-536. | 0.4 | 6 |
| 32 | Non-Contact Ultralow Rotational Speed Measurement of Real Objects Based on Rotational Doppler Velocimetry. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-8. | 4.7 | 6 |
| 33 | Adaptive robust sliding mode simultaneous control of spacecraft attitude and micro-vibration based on magnetically suspended control and sensitive gyro. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2020, 234, 2197-2210. | 1.3 | 5 |
| 34 | Rotational Doppler Effect With Vortex Beams: Fundamental Mechanism and Technical Progress. Frontiers in Physics, 0, 10, . | 2.1 | 5 |
| 35 | A Precession Effect Suppression Method for Active Magnetically Suspended Rotor. IEEE Transactions on Industrial Electronics, 2022, 69, 6130-6139. | 7.9 | 4 |
| 36 | Angular Rate Sensitive Method of Magnetically Suspended Control & 2007 Sensing Gyroscope Based on Deflection Current and Angle. IEEE Sensors Journal, 2021, 21, 12068-12076. | 4.7 | 4 |

Yuan Ren

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Modeling and Analysis of Drift Error in a MSSG with Double Spherical Envelope Surfaces. Journal of Magnetics, 2016, 21, 356-363. | 0.4 | 4 |
| 38 | Modified Cross Feedback Control for a Magnetically Suspended Flywheel Rotor with Significant Gyroscopic Effects. Mathematical Problems in Engineering, 2014, 2014, 1-11. | 1.1 | 2 |
| 39 | Steering law design for a magnetically suspended control and sensitive gyro cluster considering rotor tilt saturation. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2019, 233, 4066-4076. | 1.3 | 2 |
| 40 | Stability analysis for a rotor system in a magnetically suspended control and sensitive gyroscope with the Lorentz force magnetic bearing rotation. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2019, 233, 548-557. | 1.0 | 2 |
| 41 | Integrated control of attitude maneuver and vibration suppression of flexible spacecraft based on magnetically suspended control moment gyros. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2021, 235, 1117-1132. | 2.1 | 2 |
| 42 | Modeling and Analysis of Drift Error from Stator of A MSSG with Double Spherical Envelope Surfaces. Journal of Electrical Engineering and Technology, 2016, 11, 1475-1485. | 2.0 | 2 |
| 43 | Spin splitting in a MoS2 monolayer induced by exciton interaction. Physical Review B, 2020, 101, . | 3.2 | 1 |
| 44 | Improved design of Lorentz force-type magnetic bearings for magnetically suspended gimballing flywheels. Journal of Power Electronics, 2021, 21, 603-615. | 1.5 | 1 |
| 45 | Spacecraft attitude control and vibration suppression using magnetically suspended control & amp; sensitive gyroscope and radial basis function network adaptive sliding mode control. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 0, , 095440622210851. | 2.1 | 1 |
| 46 | On Nonlinear Motions of Two-Degree-of-Freedom Nonlinear Systems with Repeated Linearized Natural Frequencies. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2019, 29, 1950132. | 1.7 | 0 |
| 47 | Analysis method of MSCSG rotor deflection signal based on windowed interpolation FFT. , 2019, , . | | 0 |