

Yuan Ren

List of Publications by Year in descending order

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all docs

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docs citations

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times ranked

383
citing authors

#	ARTICLE	IF	CITATIONS
1	A Precession Effect Suppression Method for Active Magnetically Suspended Rotor. IEEE Transactions on Industrial Electronics, 2022, 69, 6130-6139.	7.9	4
2	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
3	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
4	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
5	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
6	A Measurement Method of Torque Coefficient for Magnetically Suspended Control and Sensitive Gyroscope. IEEE Sensors Journal, 2021, 21, 14767-14775.	4.7	8
7	Accuracy Improvement of a Redundant Inertial Measurement Unit Brought about by the Dual-Axis Rotational Motion. , 2021, , .		6
8	Improved design of Lorentz force-type magnetic bearings for magnetically suspended gimbaling flywheels. Journal of Power Electronics, 2021, 21, 603-615.	1.5	1
9	A Review of Redundant Inertial Navigation Technology. , 2021, , .		8
10	Generating a new type of polygonal perfect optical vortex. Optics Express, 2021, 29, 14126.	3.4	19
11	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
12	Angular Rate Sensitive Method of Magnetically Suspended Control & Sensing Gyroscope Based on Deflection Current and Angle. IEEE Sensors Journal, 2021, 21, 12068-12076.	4.7	4
13	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
14	Spacecraft Vibration Control Based on Extended Modal Decoupling of Vernier-Gimbaling Magnetically Suspension Flywheels. IEEE Transactions on Industrial Electronics, 2020, 67, 4066-4076.	7.9	21
15	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
16	MTF-CRNN: Multiscale Time-Frequency Convolutional Recurrent Neural Network for Sound Event Detection. IEEE Access, 2020, 8, 147337-147348.	4.2	9
17	Spin splitting in a MoS2 monolayer induced by exciton interaction. Physical Review B, 2020, 101, .	3.2	1
18	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 C: Journal of Aerospace Engineering, 2020, 234, 2197-2210.	1.3	5

#	ARTICLE	IF	CITATIONS
19	Modeling and Performance Investigation of a Piezoelectric Vibrating Gyroscope. IEEE Sensors Journal, 2019, 19, 9832-9840.	4.7	10
20	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
21	Free vibration analysis of a spinning piezoelectric beam with geometric nonlinearities. Acta Mechanica Sinica/Lixue Xuebao, 2019, 35, 879-893.	3.4	17
22	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
23	Analysis method of MSCSG rotor deflection signal based on windowed interpolation FFT. , 2019, , .		0
24	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
25	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
26	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
27	Influence of lateral misalignment on the optical rotational Doppler effect. Applied Optics, 2019, 58, 2650.	1.8	56
28	Detection of spinning objects at oblique light incidence using the optical rotational Doppler effect. Optics Express, 2019, 27, 24781.	3.4	53
29	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
30	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
31	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
32	Analysis, Modeling and Compensation of Dynamic Imbalance Error for a Magnetically Suspended Sensitive Gyroscope. Journal of Magnetism, 2016, 21, 529-536.	0.4	6
33	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
34	Modeling and Analysis of Drift Error in a MSSG with Double Spherical Envelope Surfaces. Journal of Magnetism, 2016, 21, 356-363.	0.4	4
35	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
36	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

#	ARTICLE	IF	CITATIONS
37	Complex-Coefficient Frequency Domain Stability Analysis Method for a Class of Cross-Coupled Antisymmetrical Systems and Its Extension in MSR Systems. <i>Mathematical Problems in Engineering</i> , 2014, 2014, 1-11.	1.1	6
38	Nutation and Precession Stability Criterion of Magnetically Suspended Rigid Rotors With Gyroscopic Effects Based on Positive and Negative Frequency Characteristics. <i>IEEE Transactions on Industrial Electronics</i> , 2014, 61, 2003-2014.	7.9	39
39	Modal decoupling control for a double gimbal magnetically suspended control moment gyroscope based on modal controller and feedback linearization method. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2014, 228, 2303-2313.	2.1	13
40	Whirling Modes Stability Criterion for a Magnetically Suspended Flywheel Rotor With Significant Gyroscopic Effects and Bending Modes. <i>IEEE Transactions on Power Electronics</i> , 2013, 28, 5890-5901.	7.9	63
41	High-Stability and Fast-Response Twisting Motion Control for the Magnetically Suspended Rotor System in a Control Moment Gyro. <i>IEEE/ASME Transactions on Mechatronics</i> , 2013, 18, 1625-1634.	5.8	33
42	Decoupling Control of Magnetically Suspended Rotor System in Control Moment Gyros Based on an Inverse System Method. <i>IEEE/ASME Transactions on Mechatronics</i> , 2012, 17, 1133-1144.	5.8	103
43	Self-Adaptive Phase-Lead Compensation Based on Unsymmetrical Current Sampling Resistance Network for Magnetic Bearing Switching Power Amplifiers. <i>IEEE Transactions on Industrial Electronics</i> , 2012, 59, 1218-1227.	7.9	58
44	Current-Sensing Resistor Design to Include Current Derivative in PWM H-Bridge Unipolar Switching Power Amplifiers for Magnetic Bearings. <i>IEEE Transactions on Industrial Electronics</i> , 2012, 59, 4590-4600.	7.9	72
45	High-Precision Control for a Single-Gimbal Magnetically Suspended Control Moment Gyro Based on Inverse System Method. <i>IEEE Transactions on Industrial Electronics</i> , 2011, 58, 4331-4342.	7.9	118
46	Spacecraft attitude control and vibration suppression using magnetically suspended control & sensitive gyroscope and radial basis function network adaptive sliding mode control. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 0, , 095440622210851.	2.1	1
47	Rotational Doppler Effect With Vortex Beams: Fundamental Mechanism and Technical Progress. <i>Frontiers in Physics</i> , 0, 10, .	2.1	5