

Biao Xiang

List of Publications by Year in descending order

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31
papers

352
citations

933447

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docs citations

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Stable Control of High-Speed Rotor Suspended by Superconducting Magnetic Bearings and Active Magnetic Bearings. <i>IEEE Transactions on Industrial Electronics</i> , 2017, 64, 3319-3328.	7.9	41
2	Dynamic characteristics of the rotor in a magnetically suspended control moment gyroscope with active magnetic bearing and passive magnetic bearing. <i>ISA Transactions</i> , 2014, 53, 1357-1365.	5.7	30
3	Suspension and titling of vernier-gimballing magnetically suspended flywheel with conical magnetic bearing and Lorentz magnetic bearing. <i>Mechatronics</i> , 2015, 28, 46-54.	3.3	26
4	Vibration characteristics analysis of magnetically suspended rotor in flywheel energy storage system. <i>Journal of Sound and Vibration</i> , 2019, 444, 235-247.	3.9	24
5	Adaptive back-stepping tracking control for rotor shaft tilting of active magnetically suspended momentum wheel. <i>ISA Transactions</i> , 2014, 53, 1892-1900.	5.7	22
6	Electromagnetic vibration absorber for torsional vibration in high speed rotational machine. <i>Mechanical Systems and Signal Processing</i> , 2020, 140, 106639.	8.0	22
7	Vibration analysis, measurement and balancing of flywheel rotor suspended by active magnetic bearing. <i>Measurement: Journal of the International Measurement Confederation</i> , 2022, 197, 111305.	5.0	16
8	Robust control of magnetically suspended gimbals in inertial stabilized platform with wide load range. <i>Mechatronics</i> , 2016, 39, 127-135.	3.3	14
9	Rotor ^{3s} Suspension for Vernier-gimballing magnetically suspended flywheel with conical magnetic bearing. <i>ISA Transactions</i> , 2015, 58, 509-519.	5.7	13
10	Gimbal effect of magnetically suspended flywheel with active deflection of Lorentz-force magnetic bearing. <i>Mechanical Systems and Signal Processing</i> , 2022, 173, 109081.	8.0	13
11	Gimbal torque and coupling torque of six degrees of freedom magnetically suspended yaw gimbal. <i>International Journal of Mechanical Sciences</i> , 2020, 168, 105312.	6.7	12
12	Active disturbance rejection control of test sample in electrostatic suspension system. <i>Mechanical Systems and Signal Processing</i> , 2021, 148, 107187.	8.0	12
13	Sensorless Control of Segmented PMLSM for Long-Distance Auto-Transportation System Based on Parameter Calibration. <i>IEEE Access</i> , 2020, 8, 102467-102476.	4.2	10
14	Process control of charging and discharging of magnetically suspended flywheel energy storage system. <i>Journal of Energy Storage</i> , 2022, 47, 103629.	8.1	10
15	Optimal control for hybrid magnetically suspended flywheel rotor based on state feedback exact linearization model. <i>Science Progress</i> , 2020, 103, 36850420951389.	1.9	9
16	Speed Control of Segmented PMLSM Based on Improved SMC and Speed Compensation Model. <i>Energies</i> , 2020, 13, 981.	3.1	9
17	The airborne inertially stabilized platform suspend by an axial-radial integrated active magnetic actuator system. <i>Journal of Advanced Research</i> , 2021, 31, 191-205.	9.5	9
18	The disturbance rejection of magnetically suspended inertially stabilized platform. <i>Transactions of the Institute of Measurement and Control</i> , 2018, 40, 565-577.	1.7	7

#	ARTICLE	IF	CITATIONS
19	Decoupling control of magnetically suspended motor rotor with heavy self-weight and great moment of inertia based on internal model control. <i>JVC/Journal of Vibration and Control</i> , 2022, 28, 1591-1604.	2.6	7
20	Gimbal control of inertially stabilized platform for airborne remote sensing system based on adaptive RBFNN feedback model. <i>IFAC Journal of Systems and Control</i> , 2021, 16, 100148.	1.7	7
21	Stable control of magnetically suspended motor with heavy self-weight and great moment of inertia. <i>ISA Transactions</i> , 2020, 105, 335-348.	5.7	6
22	Power compensation mechanism for AMB system in magnetically suspended flywheel energy storage system. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021, 173, 108646.	5.0	6
23	Gimballing Flywheel and its Novel Reluctance Force-type Magnetic Bearing with Low Eddy Loss and Slight Tilting Torque. <i>Journal of Magnetism</i> , 2013, 18, 432-442.	0.4	6
24	Coupling Analysis and Cross-Feedback Control of Three-Axis Inertially Stabilized Platform with an Active Magnetic Bearing System. <i>Shock and Vibration</i> , 2020, 2020, 1-17.	0.6	5
25	Wide-Range Displacement Sensor for Vibration Measurement of Magnetically Suspended Air-Blower. <i>IEEE Sensors Journal</i> , 2022, 22, 15876-15883.	4.7	5
26	Rotating characteristics and stability analysis of unsymmetrical magnetically suspended motor. <i>ISA Transactions</i> , 2022, 126, 263-275.	5.7	4
27	Stiffness identification of magnetic suspension system based on zero-displacement and zero-current models. <i>Mechanical Systems and Signal Processing</i> , 2022, 171, 108901.	8.0	3
28	Vibration Analysis and Active Control of Rotor Shaft in Magnetically Suspended Air-Blower. <i>Machines</i> , 2022, 10, 570.	2.2	2
29	The electrostatic levitation system for active suspension control of test sample in horizontal and vertical axes. <i>Sensors and Actuators A: Physical</i> , 2022, 337, 113404.	4.1	1
30	Vibration Analysis and Active Control of Test Sample Suspended in Electrostatic Levitation Field. <i>IEEE Sensors Journal</i> , 2022, 22, 15782-15792.	4.7	1
31	Suspension Characteristics of Magnetically Suspended Frame in Inertially Stabilized Platform. , 2018, , .		0