

# Biao Xiang

## List of Publications by Year in descending order

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31  
papers

352  
citations

933447

10  
h-index

888059

17  
g-index

31  
all docs

31  
docs citations

31  
times ranked

220  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Rotating characteristics and stability analysis of unsymmetrical magnetically suspended motor. <i>ISA Transactions</i> , 2022, 126, 263-275.	5.7	4
3	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
4	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
5	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
6	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
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	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
9	Wide-Range Displacement Sensor for Vibration Measurement of Magnetically Suspended Air-Blower. <i>IEEE Sensors Journal</i> , 2022, 22, 15876-15883.	4.7	5
10	Vibration Analysis and Active Control of Rotor Shaft in Magnetically Suspended Air-Blower. <i>Machines</i> , 2022, 10, 570.	2.2	2
11	Active disturbance rejection control of test sample in electrostatic suspension system. <i>Mechanical Systems and Signal Processing</i> , 2021, 148, 107187.	8.0	12
12	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
13	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
14	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
15	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
16	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
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Optimal control for hybrid magnetically suspended flywheel rotor based on state feedback exact linearization model. Science Progress, 2020, 103, 36850420951389.	1.9	9
20	Speed Control of Segmented PMLSM Based on Improved SMC and Speed Compensation Model. Energies, 2020, 13, 981.	3.1	9
21	Electromagnetic vibration absorber for torsional vibration in high speed rotational machine. Mechanical Systems and Signal Processing, 2020, 140, 106639.	8.0	22
22	Vibration characteristics analysis of magnetically suspended rotor in flywheel energy storage system. Journal of Sound and Vibration, 2019, 444, 235-247.	3.9	24
23	The disturbance rejection of magnetically suspended inertially stabilized platform. Transactions of the Institute of Measurement and Control, 2018, 40, 565-577.	1.7	7
24	Suspension Characteristics of Magnetically Suspended Frame in Inertially Stabilized Platform. , 2018, , .		0
25	Stable Control of High-Speed Rotor Suspended by Superconducting Magnetic Bearings and Active Magnetic Bearings. IEEE Transactions on Industrial Electronics, 2017, 64, 3319-3328.	7.9	41
26	Robust control of magnetically suspended gimbals in inertial stabilized platform with wide load range. Mechatronics, 2016, 39, 127-135.	3.3	14
27	Suspension and titling of vernier-gimballing magnetically suspended flywheel with conical magnetic bearing and Lorentz magnetic bearing. Mechatronics, 2015, 28, 46-54.	3.3	26
28	Rotor's Suspension for Vernier-gimballing magnetically suspended flywheel with conical magnetic bearing. ISA Transactions, 2015, 58, 509-519.	5.7	13
29	Adaptive back-stepping tracking control for rotor shaft tilting of active magnetically suspended momentum wheel. ISA Transactions, 2014, 53, 1892-1900.	5.7	22
30	Dynamic characteristics of the rotor in a magnetically suspended control moment gyroscope with active magnetic bearing and passive magnetic bearing. ISA Transactions, 2014, 53, 1357-1365.	5.7	30
31	Gimballing Flywheel and its Novel Reluctance Force-type Magnetic Bearing with Low Eddy Loss and Slight Tilting Torque. Journal of Magnetism, 2013, 18, 432-442.	0.4	6