

Jinquan Xu

List of Publications by Year in descending order

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634
citing authors

#	ARTICLE	IF	CITATIONS
1	Robust Control of Fault-Tolerant Permanent-Magnet Synchronous Motor for Aerospace Application With Guaranteed Fault Switch Process. IEEE Transactions on Industrial Electronics, 2015, 62, 7309-7321.	5.2	97
2	Analytical and Experimental Evaluation of SiC-Inverter Nonlinearities for Traction Drives Used in Electric Vehicles. IEEE Transactions on Vehicular Technology, 2018, 67, 146-159.	3.9	96
3	Optimal Robust Control Design for Constrained Uncertain Systems: A Fuzzy-Set Theoretic Approach. IEEE Transactions on Fuzzy Systems, 2018, 26, 3494-3505.	6.5	48
4	A novel fault tolerant permanent magnet synchronous motor with improved optimal torque control for aerospace application. Chinese Journal of Aeronautics, 2015, 28, 535-544.	2.8	37
5	Power Switch Open-Circuit Fault Diagnosis of Six-Phase Fault Tolerant Permanent Magnet Synchronous Motor System Under Normal and Fault-Tolerant Operation Conditions Using the Average Current Park's Vector Approach. IEEE Transactions on Power Electronics, 2021, 36, 2641-2660.	5.4	36
6	Sensorless Fault-Tolerant Control With Phase Delay Compensation for Aerospace FTPMSM Drives With Phase Open-Circuit and Short-Circuit Faults. IEEE Transactions on Industrial Electronics, 2021, 68, 4576-4585.	5.2	29
7	Research on a High-Frequency Response Direct Drive Valve System Based on Voice Coil Motor. IEEE Transactions on Power Electronics, 2013, 28, 2483-2492.	5.4	28
8	A Robust Observer and Nonorthogonal PLL-Based Sensorless Control for Fault-Tolerant Permanent Magnet Motor With Guaranteed Postfault Performance. IEEE Transactions on Industrial Electronics, 2020, 67, 5959-5970.	5.2	27
9	Research on a six-phase permanent magnet synchronous motor system at dual-redundant and fault tolerant modes in aviation application. Chinese Journal of Aeronautics, 2017, 30, 1548-1560.	2.8	25
10	Adaptive robust constrained state control for nonlinear maglev vehicle with guaranteed bounded airgap. IET Control Theory and Applications, 2018, 12, 1573-1583.	1.2	25
11	Guaranteeing the fault transient performance of aerospace multiphase permanent magnet motor system: An adaptive robust speed control approach. CES Transactions on Electrical Machines and Systems, 2020, 4, 114-122.	2.7	25
12	Robust levitation control for maglev systems with guaranteed bounded airgap. ISA Transactions, 2015, 59, 205-214.	3.1	24
13	Optimal Robust Position Control With Input Shaping for Flexible Solar Array Drive System: A Fuzzy-Set Theoretic Approach. IEEE Transactions on Fuzzy Systems, 2019, 27, 1807-1817.	6.5	21
14	A New Approach to Control Design for Constraint-following for Fuzzy Mechanical Systems. Journal of Optimization Theory and Applications, 2015, 165, 1022-1049.	0.8	19
15	Guaranteeing Uniform Ultimate Boundedness for Uncertain Systems Free of Matching Condition. IEEE Transactions on Fuzzy Systems, 2018, 26, 3479-3493.	6.5	19
16	Adaptive robust control with input shaping technology for solar array drive system. Acta Astronautica, 2017, 140, 264-272.	1.7	15
17	Design of an Aviation Dual-Three-Phase High-Power High-Speed Permanent Magnet Assisted Synchronous Reluctance Starter-Generator With Antishort-Circuit Ability. IEEE Transactions on Power Electronics, 2022, 37, 12619-12635.	5.4	15
18	Influence analysis of slot parameters and high torque density optimisation for dual redundant permanent magnet motor in aerospace application. IET Electric Power Applications, 2020, 14, 1263-1273.	1.1	11

#	ARTICLE	IF	CITATIONS
19	Statistical analysis on the additional torque ripple caused by magnet tolerances in surface-mounted permanent magnet synchronous motors. IET Electric Power Applications, 2015, 9, 183-192.	1.1	10
20	Fractional robust control design for fuzzy dynamical systems: An optimal approach. Journal of Intelligent and Fuzzy Systems, 2015, 29, 553-569.	0.8	10
21	2-D Magnetic Properties Measurement System for Electrical Steel Sheets Considering Laminated Direction Mechanical Stress. IEEE Transactions on Magnetics, 2017, 53, 1-11.	1.2	9
22	Design and Comparison of Six-Phase Fault-Tolerant Interior Permanent Magnet Motor and Surface-Mounted Permanent Magnet Motor for Electric Vehicles. , 2018, , .		8
23	Robust Observer Design and Fuzzy Optimization for Uncertain Dynamic Systems. International Journal of Fuzzy Systems, 2019, 21, 1511-1523.	2.3	8
24	Design and Analysis of a 120kW High-Speed Permanent Magnet Motor with a Novel Evaporative Cooling Configuration for Centrifugal Compressor. , 2018, , .		7
25	Fault tolerant control with torque limitation based on fault mode for ten-phase permanent magnet synchronous motor. Chinese Journal of Aeronautics, 2015, 28, 1464-1475.	2.8	6
26	Robust Constraint Following Stabilization for Mechanical Manipulators Containing Uncertainty: An Adaptive φ Approach. IEEE Access, 2018, 6, 58728-58736.	2.6	6
27	Online Inverter Open-circuit Fault Diagnosis for Fault Tolerant Permanent Magnet Synchronous Motor System under multi-fault condition. , 2019, , .		6
28	Sensorless Fault-Tolerant Control via High-Frequency Signal Injection for Aerospace FTPMSM Drives With Phase Open- and Short-Circuit Faults. IEEE Transactions on Transportation Electrification, 2022, 8, 3401-3410.	5.3	6
29	A Novel Diagnostic Method for Single and Dual Power Switch Open-Circuit Faults of Six-Phase FTPMSM System Even in Fault Tolerant Operation. IEEE Transactions on Power Electronics, 2022, 37, 9777-9789.	5.4	6
30	Design and analysis of a novel fault tolerant permanent magnet synchronous motor for aircraft application. , 2014, , .		4
31	Design of airborne electrical load management center with high reliability based on dissimilar redundant technique. , 2015, , .		4
32	The influence analysis of different fault modes on the post-fault performance of fault tolerant permanent magnet synchronous motor. , 2017, , .		4
33	Design of High-speed Wet-type Permanent Magnet Synchronous Motor Considering Oil Frictional Loss. , 2020, , .		4
34	Controller design and implementation for double-stator tri-redundant brushless DC motor based on DSP and FPGA. , 2011, , .		3
35	Bivariate Optimization for Control Design of Interconnected Uncertain Nonlinear Systems: A Fuzzy Set-Theoretic Approach. International Journal of Fuzzy Systems, 2018, 20, 1715-1729.	2.3	3
36	Research on a New Sensorless Control of High Power Segmented Permanent Magnet Linear Synchronous Motor by The Improved Sliding Mode Observer. , 2021, , .		3

#	ARTICLE	IF	CITATIONS
37	Non-Proportionally Scaled-Down Model Approach to Solar Array Drive System Performance Prediction Considering Control Strategy. IEEE Access, 2018, 6, 50323-50332.	2.6	2
38	Guaranteeing performance for uncertain nonlinear systems with bounded state constraint and mismatching condition. Asian Journal of Control, 2021, 23, 548-560.	1.9	2
39	Analytic solution for transfer efficiency of magnetically-coupled inductive wireless power transfer system with constant power load. , 2017, , .		1
40	The Robust Observer for Sensorless Control of Permanent Magnet Synchronous Motor. , 2018, , .		1
41	Adaptive Robust Constraint Following Control for Mechanical Systems. , 2019, , .		1
42	A Novel High Frequency Signal Injection Based Sensorless Control Method for Six-Phase FTPMSM System. , 2019, , .		1
43	Electrical Characteristics of the EHA in Four Quadrant Operation. , 2021, , .		1
44	Decoupling Current Sharing Control for Paralleled DC-DC Converter in Aerospace Application. , 2021, , .		1
45	High-Frequency Square-Wave Signal Injection Based Sensorless Fault Tolerant Control for Aerospace FTPMSM System in Fault Condition. IEEE Transactions on Transportation Electrification, 2022, 8, 4560-4568.	5.3	1
46	Iron loss of electrical steel considering rotational magnetization and laminated direction mechanical stress. , 2016, , .		0
47	Influence of anti-short-circuit design on the performance of dual-redundancy PMSM. , 2017, , .		0
48	A Heat Constraint Based Fault Tolerant Control for the Fault Tolerant Permanent Magnet Synchronous Motor. , 2018, , .		0