

Zhuang Xu

List of Publications by Year in descending order

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papers

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29
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617
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct Torque and Flux Regulation of an IPM Synchronous Motor Drive Using Variable Structure Control Approach. IEEE Transactions on Power Electronics, 2007, 22, 2487-2498.	7.9	135
2	An Adaptive Sliding Stator Flux Observer for a Direct-Torque-Controlled IPM Synchronous Motor Drive. IEEE Transactions on Industrial Electronics, 2007, 54, 2398-2406.	7.9	105
3	Comparison of a Sliding Observer and a Kalman Filter for Direct-Torque-Controlled IPM Synchronous Motor Drives. IEEE Transactions on Industrial Electronics, 2012, 59, 4179-4188.	7.9	78
4	Control of Parallel Multiple Converters for Direct-Drive Permanent-Magnet Wind Power Generation Systems. IEEE Transactions on Power Electronics, 2012, 27, 1259-1270.	7.9	70
5	A Nonlinear Extended State Observer for Rotor Position and Speed Estimation for Sensorless IPMSM Drives. IEEE Transactions on Power Electronics, 2020, 35, 733-743.	7.9	63
6	A Novel Concept of Ribless Synchronous Reluctance Motor for Enhanced Torque Capability. IEEE Transactions on Industrial Electronics, 2020, 67, 2553-2563.	7.9	41
7	A Third-Order Super-Twisting Extended State Observer for Dynamic Performance Enhancement of Sensorless IPMSM Drives. IEEE Transactions on Industrial Electronics, 2020, 67, 5948-5958.	7.9	39
8	A Nonlinear Extended State Observer for Sensorless IPMSM Drives With Optimized Gains. IEEE Transactions on Industry Applications, 2020, 56, 1485-1494.	4.9	25
9	A novel stator voltage oriented V/F control method capable of high output torque at low speed. , 2009, , .		17
10	Control of Parallel Multirectifiers for a Direct-Drive Permanent-Magnet Wind Power Generator. IEEE Transactions on Industry Applications, 2013, 49, 1687-1696.	4.9	15
11	Fast and Simple Tuning Rules of Synchronous Reference Frame Proportional-Integral Current Controller. IEEE Access, 2021, 9, 22156-22170.	4.2	13
12	An extended Kalman filter observer for the direct torque controlled interior permanent magnet synchronous motor drive. , 0, , .		10
13	Enhanced Self-Sensing Capability of Permanent-Magnet Synchronous Machines: A Novel Saliency Modulation Rotor End Approach. IEEE Transactions on Industrial Electronics, 2017, 64, 3548-3556.	7.9	9
14	Sensorless sliding mode control of an interior permanent magnet synchronous motor based on extended Kalman filter. , 0, , .		8
15	Self-Excitation and Energy Recovery of Air-Core Compulsators. IEEE Transactions on Plasma Science, 2017, 45, 1168-1174.	1.3	7
16	Enhanced Force Estimation for Electromechanical Brake Actuators in Transportation Vehicles. IEEE Transactions on Power Electronics, 2021, 36, 14329-14339.	7.9	6
17	A fast generalized multilevel voltage SVPWM algorithm based on voltage decomposition. , 2010, , .		5
18	An new six level back to back converters with the DC voltage balance and current control. , 2010, , .		5

#	ARTICLE	IF	CITATIONS
19	Power Flow Control of High Voltage DC Networks for Grid Integration of Offshore Wind Power. Energy Procedia, 2015, 75, 1698-1704.	1.8	5
20	A Novel Modular Pulse Generator With High Voltage Gain and Reduced Number of Capacitors. IEEE Transactions on Plasma Science, 2022, 50, 394-400.	1.3	5
21	A Novel Direct Load Angle Control for Interior Permanent Magnet Synchronous Machine Drives with Space Vector Modulation. , 0, , .		4
22	An Indirect Space-vector Modulated Three-phase AC-DC Matrix Converter for Hybrid Electric Vehicles. Energy Procedia, 2015, 75, 1968-1974.	1.8	4
23	An Extended State Loop Filter With Position Error Observer for Sensorless IPMSM Drives. IEEE Transactions on Industrial Electronics, 2022, 69, 12213-12224.	7.9	4
24	High performance control of a permanent magnet wind power generation system using an adaptive sliding observer. , 2009, , .		3
25	A Fractional Slot Multiphase Air-Core Compulsator With Concentrated Winding. IEEE Transactions on Plasma Science, 2017, 45, 1387-1393.	1.3	3
26	Performance Evaluation of an Integrated Starter-Alternator with an IPM Synchronous Machine under Sensor-less Operation. Journal of Power Electronics, 2012, 12, 49-57.	1.5	3
27	Enhanced Speed Extraction for Salient PMSM Sensorless Drives Based on A Cascaded Extended State Observer. , 2018, , .		2
28	A PMSM With Enhanced Anisotropic Rotor Configuration for Sensorless Operations. IEEE Transactions on Energy Conversion, 2021, 36, 2872-2883.	5.2	2
29	Passive Control on the Negative Effect of Thyristor Switched Capacitor (I). , 2011, , .		1