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0478	Fault-tolerant Control of PMSM Based on Double Quasi-Z-Source Four-Leg Indirect Matrix Converter <i>Yougui Guo; Min Wu; Siqu Peng; Fazheng Liu</i>	1807
0480	Prototype Machine Design for Accurate Core Loss Measurement of High-Speed Machines <i>Liu Zhang; Zhanpeng Cui; Yun Le; Xikai Liu; Kun Wang; Shiqiang Zheng</i>	1813
0481	Research on Underwater Inverter Technology based on MMC <i>Yongtao Liang; Dong Jiang; Junzhao Zhang; Jiangyan Guo; Xin Li; Hui Ouyang</i>	1818
0483	Evaluation and Suppression of Windage Loss for High-speed Flux-switching Permanent Magnet Machine <i>Wenfei Yu; Zhongze Wu; Wei Hua</i>	1822
0484	Research on State of Charge Estimation of Lithium Ion Battery Based on Improved Particle Swarm Optimization and Unscented Kalman Filter <i>Wu Zhixiong; Qian Hao; Zhang Qinling</i>	1828

0485	An Improved Cascade Extended State Observer with CVGI Based SMESO for PMSM Sensorless Control <i>Siyuan Liu; Ling Liu; Baoling Shao; Deliang Liang</i>	1834
0487	Multi-objective Decoupling MPC Strategy for Bidirectional Neutral Point Clamped DC/DC Converter Applied in Energy Storage System <i>Cheng Xu; Kaitao Bi; Jian Ai; Qigao Fan</i>	1840
0488	A novel initial position identification of IPMSM based on pulse injection <i>Mengqi Li; Jinglin Liu; En Xie; Ruizhi Guan; Lanlan Zheng</i>	1846
0490	DFIG-VSG Based on Predictive Back-EMF Control for Improved Voltage Source Characteristic and Overcurrent Suppression <i>Peinan Jiang; Tao Wang; Xingwei Mu;</i>	1851
0491	Dynamic Inertia Modeling and Evaluation of PMSG-Based Wind Turbine with df/dt Inertia Control <i>Bo Hu; Donghai Zhu; Jiawei Yu; Yihua Zhu; Chengxiang Li; Le Li; Xudong Zou; Yong Kang</i>	1857
0492	Design and Comparison of Multi-unit Primary Permanent Magnet Wave Generator <i>Zhiquan Kong; Mei Zhao; Jun Zhao; Pingpeng Tang; Tong Yao; Huaqiang Zhang</i>	1863
0493	Efficient Variable Switching Frequency Drive Control Method for Propulsion Motors <i>Xin Tian; Hao Qian; Qinling Zhang</i>	1868
0494	Active Damping Control Used for Servo System of Satellite Payload with Deteriorating Friction <i>Jialin Li; Zhen Chen; Hengzai Hu; Xiangdong Liu</i>	1875
0495	A MRAS Based Identification Method of Stator Resistance Considering Iron Loss for Main Machine in Wound-Rotor Synchronous Starter-Generator <i>Xu Han; Weiguo Liu; Ningfei Jiao; Pu Yao; Zijie Li; Shuai Mao</i>	1880
0498	Multiphysics Research and Loss Calculation Considering the Fluid Regime of the Airgap Based on High-Speed PMSM <i>Xiangdong Su; Hang Zhao; Fang Li</i>	1885
0499	Performance Evaluation of Consequent-pole Permanent Magnet Machine with Halbach Array Arrangement <i>Ya Li; Qinglin Zhou; Shichuan Ding; Jun Hang; Gongping Wu; Junhui Cheng</i>	1889
0500	A Review on the Control Strategies for Differential Boost Inverter <i>Mengyuan Li; Jin Wang; Hu Wang; Youlun Dai; Libing Zhou</i>	1895
0502	Modified Nine-Switches High Step-up Ratio Boost-Only Y-inverter with Common Ground <i>Youlun Dai; Jin Wang; Hu Wang; Mengyuan Li; Libing Zhou</i>	1900
0504	Maximum Efficiency Per Ampere Control of Synchronous Reluctance Motor Sensorless Drives <i>Chengrui Li; Ji Xiaoshi; Lu Wang; Dianxun Xiao; Gaolin Wang; Dianguo Xu</i>	1906
0505	Research on the Control of Propeller Hub Top Mounted Vibration Damping Actuator System Based on Position Loop Decoupling Control <i>Jiawen Zhang; Zhenyang Hao; Ya Zhang</i>	1911

0506	Design and Research of Automatic Generation Control Code for Dual Three-Phase PMSM Based on FPGA <i>Fangzheng Song; Wei Xu; Jiyao Wang</i>	1917
0509	Sensorless Starting Method for High-Speed Brushless DC Motor Based on Quasi-Current Source Inverter <i>Tingna Shi; Jiawei Li; Shenxiao Zheng; Yanfei Cao; Wei Chen</i>	1922
0510	Passive Magnetic Shielding Study for Wireless Power Transfer System <i>Jinxue Meng; Haijiang Lan; Shaoqun Lu; Rong Cheng; Rongchang Wei; Yao Wang</i>	1928
0511	A Novel Sliding Mode Control Method for Permanent Magnet Synchronous Motor <i>Haohan Zhou; Guangzhong Cao; Hongjin Hu; Haotian Wang</i>	1933
0512	Modeling for Clamping Force And Hierarchical PI Control with ADRC for EMB System <i>Haitao Yang; Zibo Li; Jin Wang; Lingyu Tao; Libing Zhou</i>	1938
0514	System Identification of Five-axis Active Magnetic Bearing System in Frequency Domain Using Adaptive Filters <i>Tianci Sun; Dong Jiang; Feng Hu</i>	1944
0515	Analysis and test of capacitor-battery cooperative pulsed power supply for highly inductive load <i>Shaozhe Zhang; Chunhui Yang; Jianfeng Xie; Zhang Song; Tonghai Ding; Xiaotao Han</i>	1949
0517	Experimental Study of the Relationship Between Epstein Frame Physical Parameters and its Magductance Value <i>Xiang Ma; Ming Cheng; Wei Qin; Zheng Wang; Xinkai Zhu</i>	1954
0519	Separate fractional-order PI controller of current loop based on Sigma-delta ADC <i>Deyi Li; Zhe Liu; Tianyi Zhao; Xianguo Gui</i>	1960
0521	Research on High-Efficiency Control Strategy for Aircraft Electric Propulsion Motor System <i>Hong Gu; Wanyi Wang; Jinquan Xu; Huapeng Li</i>	1966
0523	A New Decoupling Control Method for Threedegree-of-freedom Moving-magnetic Planar Motor <i>Zijian Xie; Mingyi Wang; Liyi Li</i>	1972
0525	Coordinated Frequency Control Strategy of Offshore Wind Farm via MMC-HVDC Considering Secondary Frequency Drop <i>Zhiting Zhou; Hui Li; Hongtao Tan</i>	1977
0526	Cooperative optimization of capacity and energy management of hybrid energy storage system in rail transit system based on non-dominated sorting genetic algorithm-II and mixed-integer linear programming <i>Deshi Kong; Mingyu Lyu; Masafumi Miyatake</i>	1981
0527	Design and Analysis of a Five Phase Dual Stator Hybrid Excitation Machine with Spoke-type Permanent Magnet Rotor <i>Wang Xu; Fan Ying; Yanlei Yu; Guanghui Yang; Christopher H. T. Lee</i>	1987
0528	Influence of Rotor Topology on the Performance of Permanent Magnet Starter-Generators <i>Haoquan Zhang; Baoquan Kou; He Zhang</i>	1993

0530	Analytical Calculation and Improvement Method for Short-Circuit Torque of Permanent Magnet Synchronous Motor <i>Peng Jiang; Hui Li; Xuwei Xiang; Yonggang Li; Xiufeng Zhang</i>	1998
0531	A Novel Axial-Radial Hybrid Flux Vernier Permanent Magnet Machine <i>Mengfan Jia; Yaojing Feng; Chenxi Xia; Tan Wang; Shaoyu Ke; Shoudao Huang</i>	2004
0532	Thermal Modeling and Analysis of a Wet-type Fault-tolerant Permanent Magnet Synchronous Motor <i>Wenbo Jin; Jinquan Xu; Hong Guo</i>	2010
0533	An Efficient Model Predictive Control Strategy for Five-Phase Permanent Magnet Synchronous Motor Based on Discrete Control Set <i>Pengbo Ruan; Xiaozhong Liao; Zhen Chen; Chao Chen</i>	2016
0534	A High-Frequency Injection Sensorless Method for SynRM with Online Inductance Identification <i>Jianyong Su; He Li; Guijie Yang</i>	2022
0536	Impedance Reconstruction Based Damping Control Strategy for Variable Speed Pumped Storage Unit <i>Kaihsun Chuang; Yifang Jin; Yuanzhi Zhang; Renzhi Hu; Yihang Luan; Jianjun Sun</i>	2028
0537	Friction Loss Analysis of Air Gap Fluid in Rim-design parameters Driven Generator <i>Xian Cao; Yuze Wang; Haifeng Wang</i>	2034
0538	Research on High-speed Permanent Magnet Synchronous Motor Drive Based on PAM Method <i>Ziye Wang; Jiayi Liu; Jiwei Cao; Liyi Li; Aiguo Zhang; Yongjie Guo</i>	2038
0540	Thrust Ripple Analysis and Suppression of Minimum Unit Coil Segmented Moving-magnet Linear Motor <i>Jianxin Cui; Mingyi Wang; Jixu Sun; Liyi Li</i>	2043
0546	Weightless Model Predictive Direct Speed Control Method Based on the PMSM <i>Xun Bai; Jiayi Liu; Jiwei Cao; Liyi Li</i>	2048
0547	Position Sensorless Control of PMSM Based on Frequency Decoupled Complex Coefficient Filter with Frequency Locked Loop <i>Lingyu Tao; Jin Wang; Xinchu Ma; Dongdong Chen; Libing Zhou</i>	2053
0548	Research on Parallel Power Conversion Systems Based on Virtual Synchronous Generator Phase Coordination Control <i>Jiawen Zhang; Zhenyang Hao</i>	2058
0549	Optimization of Variable Speed Pumped Storage Unit Based on Magnetic Gear Flexible Transmission Structure <i>Yihang Luan; Yuanzhi Zhang; Yifang Jin; Kaihsun Chuang; Renzhi Hu; Jianjun Sun</i>	2064
0551	Model-free predictive fault-tolerant control of MPPMSM based on ultra-local model <i>Jiali Qu; Jinquan Xu</i>	2070
0552	A Novel Flux Switching Permanent Magnet Machine Based on Quantitative Air-Gap Construction Method <i>Shuangshuang Luo; Dawei Li; Ziyi Liang; Ronghai Qu</i>	2076

0554	Eccentricity Fault Detection of Permanent Magnet Synchronous Linear Motor Based on Rainbow Texture Transition and ResNet18 Classification <i>Long Qian; Juncai Song; Xianhong Wu; Wei Ding; Siliang Lu</i>	2081
0555	A Cooperative Control Strategy of Machine Side and Grid Side for The Rotor Converter of Pumped Storage Doubly-fed Induction Machine <i>Zexi Liang; Ruihua Zhang; Bo Zhang; Qiongxuan Ge</i>	2086
0556	Impact of a Synchronous Condenser Converted from a Thermal Power Generating Unit on the Voltage Stability of Power System <i>Gang Han; Jiaze Li; Defu Cai; Binxin Yin; Tao Wang; Guanqun Sun; Jin Wang; Libing Zhou</i>	2092
0558	A Current Reconstruction Method of Odd-phase High-speed Fault-tolerant Permanent Magnet Motor for Aviation <i>Zhibai Gao; Jiayi Liu; Jiwei Cao; Liyi Li</i>	2097
0560	Electromagnetic Design of High Torque Density 3D Magnetic Circuit Motor for Aviation Propulsion <i>Xiao Li; Hong Guo; Jinquan Xu</i>	2102
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