

Baochao Wang

List of Publications by Year in descending order

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25
papers

1,146
citations

687220

13
h-index

887953

17
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25
all docs

25
docs citations

25
times ranked

1292
citing authors

#	ARTICLE	IF	CITATIONS
1	LCL Filter Design and Implementation for Improving Transient Position Tracking Control Performance of Voice Coil Motor. IEEE Access, 2020, 8, 4963-4971.	2.6	3
2	A Simple Equivalent Temperature Rise Test Method Suitable for Safely Evaluating Thermal Limits of Motors and Power Devices Without Model Dependence. IEEE Transactions on Industrial Electronics, 2020, 67, 8755-8766.	5.2	5
3	Data-Driven Digital Direct Position Servo Control by Neural Network With Implicit Optimal Control Law Learned From Discrete Optimal Position Tracking Data. IEEE Access, 2019, 7, 126962-126972.	2.6	9
4	A Comparative Study on the Switching Performance of GaN and Si Power Devices for Bipolar Complementary Modulated Converter Legs. Energies, 2019, 12, 1146.	1.6	22
5	Permanent-Magnet Synchronous Motor Sensorless Control Using Proportional-Integral Linear Observer with Virtual Variables: A Comparative Study with a Sliding Mode Observer. Energies, 2019, 12, 877.	1.6	10
6	Study on Rapid Electromagnetic Braking of BLDC Motors Used in Automatic Top Load Washers under Direct Driving. , 2019, , .		0
7	Research on Fractional Slot Permanent Magnet Synchronous Motors with Asymmetric Winding. , 2019, , .		1
8	Linear ADRC direct current control of grid-connected inverter with LCL filter for both active damping and grid voltage induced current distortion suppression. IET Power Electronics, 2018, 11, 1748-1755.	1.5	28
9	Zero Voltage Vector Sampling Method for PMSM Three-Phase Current Reconstruction Using Single Current Sensor. IEEE Transactions on Power Electronics, 2017, 32, 3797-3807.	5.4	89
10	Current Control of Grid-Connected Inverter With LCL Filter Based on Extended-State Observer Estimations Using Single Sensor and Achieving Improved Robust Observation Dynamics. IEEE Transactions on Industrial Electronics, 2017, 64, 5428-5439.	5.2	81
11	Evaluating and handling parameter variation influence on status estimation of LCL filter for grid connected inverters. , 2017, , .		1
12	A Novel Inverter Topology for Brushless DC Motor Drive to Shorten Commutation Time. IEEE Transactions on Industrial Electronics, 2016, 63, 796-807.	5.2	26
13	Photovoltaic Electricity for Sustainable Building. Efficiency and Energy Cost Reduction for Isolated DC Microgrid. Energies, 2015, 8, 7945-7967.	1.6	40
14	An Indirect Testing Method for the Mechanical Characteristic of Multiunit Permanent-Magnet Synchronous Machines With Concentrated Windings. IEEE Transactions on Industrial Electronics, 2015, 62, 7402-7411.	5.2	14
15	Supervision control for optimal energy cost management in DC microgrid: Design and simulation. International Journal of Electrical Power and Energy Systems, 2014, 58, 140-149.	3.3	67
16	Power management and optimization for isolated DC microgrid. , 2014, , .		19
17	DC microgrid power flow optimization by multi-layer supervision control. Design and experimental validation. Energy Conversion and Management, 2014, 82, 1-10.	4.4	69
18	A maximum current sharing method for dual-redundancy brushless DC Motor control. , 2014, , .		6

#	ARTICLE	IF	CITATIONS
19	Power flow Petri Net modelling for building integrated multi-source power system with smart grid interaction. Mathematics and Computers in Simulation, 2013, 91, 119-133.	2.4	21
20	Energetic macroscopic representation and inversion-based control of DC micro-grid. , 2013, , .		0
21	Building-integrated microgrid: Advanced local energy management for forthcoming smart power grid communication. Energy and Buildings, 2013, 59, 236-243.	3.1	127
22	Building Integrated Photovoltaic System With Energy Storage and Smart Grid Communication. IEEE Transactions on Industrial Electronics, 2013, 60, 1607-1618.	5.2	269
23	Intelligent DC microgrid with smart grid communications: Control strategy consideration and design. , 2013, , .		6
24	Intelligent DC Microgrid With Smart Grid Communications: Control Strategy Consideration and Design. IEEE Transactions on Smart Grid, 2012, 3, 2148-2156.	6.2	222
25	A simple PV constrained production control strategy. , 2012, , .		11