Ian P Brown

List of Publications by Year in descending order

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29 papers	891 citations	840119 11 h-index	996533 15 g-index
29 all docs	29 docs citations	29 times ranked	846 citing authors

#	Article	IF	Citations
1	Open Circuit Switch Fault Detection in Flying Capacitor and Cascaded H-Bridge Multilevel Converters. IEEE Transactions on Power Electronics, 2021, 36, 12332-12341.	5.4	2
2	Design and Metamodel-Based Optimization of a High Power Density Wound Field Traction Motor. , 2021, , .		11
3	Simultaneous Magnetic and Structural Topology Optimization of Synchronous Reluctance Machine Rotors. IEEE Transactions on Magnetics, 2020, 56, 1-12.	1.2	30
4	Multimaterial Magneto-Structural Topology Optimization of Wound Field Synchronous Machine Rotors. IEEE Transactions on Industry Applications, 2020, 56, 3656-3667.	3.3	16
5	Driving Cycle Analysis Methods Using Data Clustering for Machine Design Optimization. , 2019, , .		8
6	Deadbeat-Direct Torque and Flux Control of Wound Field Synchronous Machine at Low Sampling to Fundamental Frequency Ratios. IEEE Transactions on Industry Applications, 2019, 55, 3813-3822.	3.3	11
7	Fundamental Evaluation of Data Clustering Approaches for Driving Cycle-Based Machine Design Optimization. IEEE Transactions on Transportation Electrification, 2019, 5, 1395-1405.	5.3	29
8	Fast Detection of Open Circuit Device Faults and Fault Tolerant Operation of Stacked Multilevel Converters. , 2019, , .		4
9	Family Phenomenon in Electric Machine Winding MMF Space Harmonics: Attribution and Applications. IEEE Transactions on Magnetics, 2019, 55, 1-10.	1.2	13
10	Fast Detection of Open Circuit Device Faults and Fault-Tolerant Operation of Single-Phase H-Bridge Flying Capacitor Multilevel Converters. , 2019, , .		3
11	Low-Cost, Printed Circuit Board Construction, Capacitively Coupled Excitation System for Wound Field Synchronous Machines. , 2019, , .		6
12	Multi-Material Magneto-Structural Topological Optimization of Wound Field Synchronous Machines. , 2019, , .		11
13	Wound Field Synchronous Machine with Segmented Rotor Laminations and Die Compressed Field Winding. , 2019, , .		8
14	Design and Demonstration of a Wound Field Synchronous Machine for Electric Vehicle Traction With Brushless Capacitive Field Excitation. IEEE Transactions on Industry Applications, 2018, 54, 1390-1403.	3.3	85
15	Rotary-Reciprocating Movement Switched-Reluctance Machines With Consequent Axially Shifted Poles. IEEE Transactions on Magnetics, 2018, 54, 1-10.	1.2	7
16	Framework and Solution Techniques for Suppressing Electric Machine Winding MMF Space Harmonics by Varying Slot Distribution and Coil Turns. IEEE Transactions on Magnetics, 2018, 54, 1-12.	1.2	31
17	Deadbeat-Direct Torque and Flux Control for Wound Field Synchronous Machines. IEEE Transactions on Industrial Electronics, 2018, 65, 2069-2079.	5.2	23
18	Low Switching Frequency Deadbeat-Direct Torque and Flux Control of Wound Field Synchronous Machines. , 2018, , .		4

#	Article	IF	Citations
19	Rotary-Reciprocating Movement Switched Reluctance Machines with Auxiliary Poles. , 2018, , .		0
20	Evaluating the Feasibility of Single-Rotor Topologies in Hybrid Excitation Synchronous Machines for Automotive Traction Applications. , 2018, , .		5
21	Synchronous Generator Brushless Field Excitation and Voltage Regulation via Capacitive Coupling Through Journal Bearings. IEEE Transactions on Industry Applications, 2017, 53, 3317-3326.	3.3	53
22	A Systematic Approach for Developing Electric Machine Windings with Suppressed MMF Space Harmonics. Electric Power Components and Systems, 2017, 45, 2327-2338.	1.0	8
23	Design of a wound field synchronous machine for electric vehicle traction with brushless capacitive field excitation. , 2016, , .		13
24	Impact of Rotor Design on Interior Permanent-Magnet Machines With Concentrated and Distributed Windings for Signal Injection-Based Sensorless Control and Power Conversion. IEEE Transactions on Industry Applications, 2016, 52, 136-144.	3.3	11
25	Extended boost converter boundary control law based on natural switching surfaces. , 2015, , .		3
26	Silicon and hybrid Si-SiC tandem inverter analytical loss characterization and comparison to PWM-modulated voltage source inverter. , 2015, , .		10
27	Design and Evaluation of Interior Permanent-Magnet Compressor Motors for Commercial Transcritical $hbox{CO}_{2}$ (R-744) Heat Pump Water Heaters. IEEE Transactions on Industry Applications, 2015, 51, 576-586.	3.3	2
28	Comparative Study of Interior Permanent Magnet, Induction, and Switched Reluctance Motor Drives for EV and HEV Applications. IEEE Transactions on Transportation Electrification, 2015, 1, 245-254.	5.3	484
29	Impact of interior permanent magnet rotor design on signal injection based sensorless control and power conversion. , 2013, , .		0