

Michael L McIntyre

List of Publications by Year in descending order

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32
papers

275
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32
times ranked

240
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear Self-Synchronizing Current Control for Grid-Connected Photovoltaic Inverters. <i>Energies</i> , 2022, 15, 4855.	3.1	2
2	Current Control of a Three-Phase, Grid-Connected Inverter in the Presence of Unknown Grid Parameters Without a Phase-Locked Loop. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021, 9, 3127-3136.	5.4	17
3	Peak Reduction and Long Term Load Forecasting for Large Residential Communities Including Smart Homes With Energy Storage. <i>IEEE Access</i> , 2021, 9, 19345-19355.	4.2	35
4	A Robust Nonlinear Controller for PMSG Wind Turbines. <i>Energies</i> , 2021, 14, 954.	3.1	4
5	Nonlinear Current-Mode Control of SCIG Wind Turbines. <i>Energies</i> , 2021, 14, 55.	3.1	3
6	Fault Detection in Inverter-Based Microgrids Utilizing a Nonlinear Observer. , 2021, , .		1
7	Improvement of the power quality of single-phase grid-connected inverter by filter-based control scheme. <i>IET Power Electronics</i> , 2020, 13, 1667-1674.	2.1	0
8	Filter-based control of a buck converter for uncertain nonlinear loads. <i>IET Power Electronics</i> , 2020, 13, 4051-4057.	2.1	0
9	On the Optimal Energy Controls for Large Scale Residential Communities including Smart Homes. , 2019, , .		9
10	Impact Fault Detection for Linear Vapor Compressor Using RISE Observer. <i>IEEE Transactions on Control Systems Technology</i> , 2018, 26, 1057-1064.	5.2	5
11	Nonlinear Adaptive Control for Power System with Static VAR Compensator. , 2018, , .		1
12	Sensorless control of an H-Bridge inverter with output inductor-capacitor filter. <i>IET Power Electronics</i> , 2018, 11, 1621-1627.	2.1	1
13	A backstepping controller for voltage source inverter with inductor current and output current observers. , 2017, , .		4
14	Nonlinear control of standalone inverter with unbalanced, nonlinear load. , 2017, , .		10
15	Nonlinear control for single-stage single-phase grid-connected photovoltaic systems. , 2017, , .		5
16	Filter-based control of an H-Bridge inverter with output LC filter. , 2017, , .		2
17	A filter-based controller for a buck converter. , 2017, , .		2
18	Single stage single phase grid connected photovoltaic system with current ripple mitigation based on nonlinear control. , 2017, , .		2

#	ARTICLE	IF	CITATIONS
19	A learning backstepping controller for voltage source inverter with nonlinear loads. , 2017, , .		2
20	PV system architecture improvement using nano-LAPS boost converter to eliminate cell failure downtime. , 2016, , .		1
21	Parameter Estimation and a Series of Nonlinear Observers for the System Dynamics of a Linear Vapor Compressor. IEEE Transactions on Industrial Electronics, 2016, 63, 6736-6744.	7.9	25
22	Nonlinear current observer for backstepping control of buck-type converters. , 2015, , .		5
23	Energy efficient DC to AC power conversion using advanced controllers and novel voltage trajectories. , 2015, , .		10
24	Analysis of electric vehicle charge scheduling and effects on electricity demand costs. Energy Systems, 2014, 5, 767-786.	3.0	16
25	Vehicle to grid as a household backup generator utilizing a novel backstepping controller with uncertain load for full bridge converter. , 2013, , .		2
26	Simplified adaptive backstepping control of buck DC:DC converter with unknown load. , 2013, , .		3
27	Analysis of forecasting algorithms for minimization of electric demand costs for electric vehicle charging in commercial and industrial environments. , 2012, , .		8
28	Plug-in hybrid conversion: As a capstone project and research testbed. , 2012, , .		4
29	A variable duty cycle Maximum Power Point Tracking algorithm for Wind Energy Conversion Systems. , 2012, , .		2
30	A Power Monitoring and Control System to minimize electricity demand costs associated with Electric Vehicle charging stations. , 2012, , .		9
31	Introducing project management theory into a capstone design sequence. , 2010, , .		3
32	A Two-Stage Lyapunov-Based Estimator for Estimation of Vehicle Mass and Road Grade. IEEE Transactions on Vehicular Technology, 2009, 58, 3177-3185.	6.3	82