

Mark Sumner

List of Publications by Year in descending order

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201
papers

5,659
citations

57758

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h-index

88630

70
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201
all docs

201
docs citations

201
times ranked

4280
citing authors

#	ARTICLE	IF	CITATIONS
1	Distributed Predictive Secondary Control for Imbalance Sharing in AC Microgrids. IEEE Transactions on Smart Grid, 2022, 13, 20-37.	9.0	21
2	Socio-Economic Benefits in Community Energy Structures. Sustainability, 2022, 14, 1890.	3.2	4
3	An Analysis for Benefits of Shared Community Energy Storage for three Real Settlements in the UK. Innovative Renewable Energy, 2022, , 731-742.	0.4	1
4	A Novel Multiport DC-DC Converter for Enhancing the Design and Performance of Batteryâ€“Supercapacitor Hybrid Energy Storage Systems for Unmanned Aerial Vehicles. Applied Sciences (Switzerland), 2022, 12, 2767.	2.5	8
5	Sensorless Control of a PMSM Drive Post an Open Circuit Failure Based on 3Dâ€“SVPWM Technique. IEEE Transactions on Electrical and Electronic Engineering, 2022, 17, 1072-1082.	1.4	2
6	Sensorless Control of Seven-Phase PMSM Drives Using NSV-SVPWM with Minimum Current Distortion. Electronics (Switzerland), 2022, 11, 792.	3.1	3
7	Distributed Predictive Secondary Control for Voltage Restoration and Economic Dispatch of Generation for DC Microgrids. , 2021, , .		4
8	Distributed Predictive Control Strategy for Frequency Restoration of Microgrids Considering Optimal Dispatch. IEEE Transactions on Smart Grid, 2021, 12, 2748-2759.	9.0	20
9	Distributed Predictive Control using Frequency and Voltage Soft Constraints in AC Microgrids including Economic Dispatch of Generation. , 2021, , .		4
10	Energy management system for hybrid PV-wind-battery microgrid using convex programming, model predictive and rolling horizon predictive control with experimental validation. International Journal of Electrical Power and Energy Systems, 2020, 115, 105483.	5.5	90
11	A Low-Current Ripple and Wide Voltage-Gain Range Bidirectional DCâ€“DC Converter With Coupled Inductor. IEEE Transactions on Power Electronics, 2020, 35, 1525-1535.	7.9	25
12	Distributed Control Strategy Based on a Consensus Algorithm and on the Conservative Power Theory for Imbalance and Harmonic Sharing in 4-Wire Microgrids. IEEE Transactions on Smart Grid, 2020, 11, 1604-1619.	9.0	46
13	A Wideband Single End Fault Location Scheme for Active Untransposed Distribution Systems. IEEE Transactions on Smart Grid, 2020, 11, 2115-2124.	9.0	16
14	A SVM-3D Based Encoderless Control of a Fault-Tolerant PMSM Drive. Electronics (Switzerland), 2020, 9, 1095.	3.1	2
15	Sensorless Speed Control of a Fault-Tolerant Five-Phase PMSM Drives. Electric Power Components and Systems, 2020, 48, 919-932.	1.8	3
16	Single-Phase Consensus-Based Control for Regulating Voltage and Sharing Unbalanced Currents in 3-Wire Isolated AC Microgrids. IEEE Access, 2020, 8, 164882-164898.	4.2	20
17	Performance Assessment of an Energy Management System for a Home Microgrid with PV Generation. Energies, 2020, 13, 3436.	3.1	19
18	A Fault Location Scheme for Active Untransposed Distribution Systems Using a Limited Number of Synchronized Measurements. Electric Power Components and Systems, 2020, 48, 1-11.	1.8	2

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19	A hierarchical two-stage energy management for a home microgrid using model predictive and real-time controllers. <i>Applied Energy</i> , 2020, 269, 115118.	10.1	52
20	Fault Ride-Through Power Electronic Topologies for Hybrid Energy Storage Systems. <i>Energies</i> , 2020, 13, 257.	3.1	6
21	Distributed Control Strategy Based on a Consensus Algorithm for the Inter-cell and Inter-cluster Voltage Balancing of a Cascaded H-Bridge Based STATCOM. , 2020, , .		7
22	DC-DC Boost Converter With a Wide Input Range and High Voltage Gain for Fuel Cell Vehicles. <i>IEEE Transactions on Power Electronics</i> , 2019, 34, 4100-4111.	7.9	124
23	Hybrid Switched-Capacitor/Switched-Quasi-Z-Source Bidirectional DC-DC Converter With a Wide Voltage Gain Range for Hybrid Energy Sources EVs. <i>IEEE Transactions on Industrial Electronics</i> , 2019, 66, 2680-2690.	7.9	98
24	Real-Time Energy Management for a Small Scale PV-Battery Microgrid: Modeling, Design, and Experimental Verification. <i>Energies</i> , 2019, 12, 2712.	3.1	11
25	A Novel Modular Multiport Converter for Enhancing the Performance of Photovoltaic-Battery Based Power Systems. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3948.	2.5	7
26	Optimization based Real-Time Home Energy Management in the Presence of Renewable Energy and Battery Energy Storage. , 2019, , .		14
27	Sizing guidelines for grid-connected decentralised energy storage systems: single house application. <i>Journal of Engineering</i> , 2019, 2019, 3802-3806.	1.1	4
28	A new single end wideband impedance based fault location scheme for distribution systems. <i>Electric Power Systems Research</i> , 2019, 173, 263-270.	3.6	42
29	Small-Signal Modelling and Stability Assessment of Phase-Locked Loops in Weak Grids. <i>Energies</i> , 2019, 12, 1227.	3.1	13
30	Influence of Inverter-Interfaced Renewable Energy Generators on Directional Relay and an Improved Scheme. <i>IEEE Transactions on Power Electronics</i> , 2019, 34, 11843-11855.	7.9	98
31	Wide frequency range active damping of LCL-filtered grid-connected converters. <i>Journal of Engineering</i> , 2019, 2019, 3542-3547.	1.1	2
32	Optimising the structure of a cascaded modular battery system for enhancing the performance of battery packs. <i>Journal of Engineering</i> , 2019, 2019, 3862-3866.	1.1	7
33	An Exploration of Design Options for Integrated Residential PV-ESS. , 2019, , .		1
34	Virtual Synchronous Machine Control for Grid Transmission Compliance Studies. , 2019, , .		1
35	Hierarchical Energy Management System for Microgrid Operation Based on Robust Model Predictive Control. <i>Energies</i> , 2019, 12, 4453.	3.1	30
36	Sensorless Speed Control of Five-Phase PMSM Drives in Case of a Single-Phase Open-Circuit Fault. <i>Iranian Journal of Science and Technology - Transactions of Electrical Engineering</i> , 2019, 43, 501-517.	2.3	5

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37	A Control Algorithm Based on the Conservative Power Theory for Cooperative Sharing of Imbalances in Four-Wire Systems. IEEE Transactions on Power Electronics, 2019, 34, 5325-5339.	7.9	31
38	A Common Ground Switched-Quasi-Z-Source Bidirectional DC-DC Converter With Wide-Voltage-Gain Range for EVs With Hybrid Energy Sources. IEEE Transactions on Industrial Electronics, 2018, 65, 5188-5200.	7.9	80
39	Observer-Based Pulsed Signal Injection for Grid Impedance Estimation in Three-Phase Systems. IEEE Transactions on Industrial Electronics, 2018, 65, 7888-7899.	7.9	53
40	Single-Switch, Wide Voltage-Gain Range, Boost DC-DC Converter for Fuel Cell Vehicles. IEEE Transactions on Vehicular Technology, 2018, 67, 134-145.	6.3	68
41	A Switched-Capacitor Bidirectional DC-DC Converter With Wide Voltage Gain Range for Electric Vehicles With Hybrid Energy Sources. IEEE Transactions on Power Electronics, 2018, 33, 9459-9469.	7.9	156
42	High Frequency Impedance Based Fault Location in Distribution System With DGs. IEEE Transactions on Smart Grid, 2018, 9, 807-816.	9.0	74
43	Sensorless speed control of five-phase PMSM drives with low current distortion. Electrical Engineering, 2018, 100, 357-374.	2.0	6
44	Interleaved Switched-Capacitor Bidirectional DC-DC Converter With Wide Voltage-Gain Range for Energy Storage Systems. IEEE Transactions on Power Electronics, 2018, 33, 3852-3869.	7.9	116
45	A Wide Input-Voltage Range Quasi-Z-Source Boost DC-DC Converter With High-Voltage Gain for Fuel Cell Vehicles. IEEE Transactions on Industrial Electronics, 2018, 65, 5201-5212.	7.9	102
46	Influence of DGs on the Single-Ended Impedance Based Fault Location Technique. , 2018, , .		2
47	Utilizing Spare Inverter Capacity for Distribution Grid Voltage Support: An Adaptive Control Scheme. , 2018, , .		0
48	Microgrid Energy Management Using a Two Stage Rolling Horizon Technique for Controlling an Energy Storage System. , 2018, , .		9
49	A Wideband Fault Location Scheme for Active Distribution Systems. , 2018, , .		2
50	Impact of an inverter-based DG on a double-ended fault location method. Journal of Engineering, 2018, 2018, 1078-1083.	1.1	3
51	Measurement and Evaluation of the Conducted Emissions of a DC/DC Power Converter in the Frequency Range 20-150 kHz. , 2018, , .		9
52	Sensorless Control of a Fault Tolerant Multi-level Inverter PMSM Drives in Case of an Open Circuit Fault. , 2018, , .		4
53	An Enhanced Hybrid Switching-Frequency Modulation Strategy for Fuel Cell Vehicle Three-Level DC-DC Converters with Quasi-Z Source. Energies, 2018, 11, 1026.	3.1	5
54	An independently controlled energy storage to support short term frequency fluctuations in weak electrical grids. International Journal of Electrical Power and Energy Systems, 2018, 103, 562-576.	5.5	13

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55	Predictive Frequency-Based Sequence Estimator for Control of Grid-Tied Converters Under Highly Distorted Conditions. IEEE Transactions on Industry Applications, 2018, 54, 5306-5317.	4.9	2
56	A Method for the Suppression of Fluctuations in the Neutral-Point Potential of a Three-Level NPC Inverter With a Capacitor-Voltage Loop. IEEE Transactions on Power Electronics, 2017, 32, 825-836.	7.9	38
57	An Islanding Detection Method for Multi-DG Systems Based on High-Frequency Impedance Estimation. IEEE Transactions on Sustainable Energy, 2017, 8, 74-83.	8.8	69
58	Fault Signal Propagation Through the PMSM Motor Drive Systems. IEEE Transactions on Industry Applications, 2017, 53, 2915-2924.	4.9	5
59	Historical-Data-Based Energy Management in a Microgrid With a Hybrid Energy Storage System. IEEE Transactions on Industrial Informatics, 2017, 13, 2597-2605.	11.3	51
60	Input-Parallel Output-Series DC-DC Boost Converter With a Wide Input Voltage Range, For Fuel Cell Vehicles. IEEE Transactions on Vehicular Technology, 2017, 66, 7771-7781.	6.3	147
61	Experimental Evaluation of a CPT-Based Four-Leg Active Power Compensator for Distributed Generation. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2017, 5, 747-759.	5.4	48
62	A double end fault location technique for distribution systems based on fault-generated transients. , 2017, , .		9
63	Fault detection for PMSM motor drive systems by monitoring inverter input currents. CES Transactions on Electrical Machines and Systems, 2017, 1, 174-179.	3.5	5
64	Wide Input-Voltage Range Boost Three-Level DC-DC Converter With Quasi-Z Source for Fuel Cell Vehicles. IEEE Transactions on Power Electronics, 2017, 32, 6728-6738.	7.9	92
65	Design recommendations for energy systems: A UK energy community study. , 2017, , .		2
66	Grid impedance estimation for islanding detection and adaptive control of converters. IET Power Electronics, 2017, 10, 1279-1288.	2.1	41
67	Realising robust low speed sensorless PMSM control using current derivatives obtained from standard current sensors. , 2017, , .		4
68	Investigating the benefits and limitations of cascaded converter topologies used in modular battery systems. , 2017, , .		3
69	Adaptive power flow control for reducing peak demand and maximizing renewable energy usage. , 2017, , .		4
70	Being a member of an energy community: Assessing the financial benefits for end-users and management authority. , 2017, , .		9
71	Predictive frequency-based sequence estimator for control of grid-tied converters under highly distorted conditions. , 2017, , .		2
72	Community power flow control for peak demand reduction and energy cost savings. , 2016, , .		4

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73	Development of a battery energy loss observer based on improved equivalent circuit modelling. , 2016, , .		4
74	Hybrid active damping of LCL-filtered grid connected converter. , 2016, , .		3
75	Analysis of hybrid energy storage systems with DC link fault ride-through capability. , 2016, , .		7
76	Evaluation of saliency tracking as an alternative for health monitoring in PMSM drives under non-stationary conditions. IET Electric Power Applications, 2016, 10, 284-293.	1.8	11
77	Sensorless control of Fault Tolerant PMSM drives in case of single-phase open circuit fault. , 2016, , .		0
78	The effect of including power converter losses when modelling energy storage systems: A UK domestic study. , 2016, , .		7
79	Condition monitoring approach for permanent magnet synchronous motor drives based on the INFORM method. IET Electric Power Applications, 2016, 10, 54-62.	1.8	13
80	Modelling and Simulation of a Sensorless Control of a True Asymmetric Cascade H-Bridge Multilevel Inverter PMSM Drives. International Journal of Power Electronics and Drive Systems, 2016, 7, 397.	0.6	3
81	A Modelling and Simulation of a Sensorless Control of Five-phase PMSM Drives using Multi-dimension Space Vector Modulation. Telkomnika (Telecommunication Computing Electronics and Control), 2016, 14, 1269.	0.8	6
82	Modeling and simulation of sensorless control of four-leg inverter PMSM drives in the case of a single-phase open circuit fault. Turkish Journal of Electrical Engineering and Computer Sciences, 2016, 24, 3807-3820.	1.4	5
83	High Ratio Bidirectional DC-DC Converter with a Synchronous Rectification H-Bridge for Hybrid Energy Sources Electric Vehicles. Journal of Power Electronics, 2016, 16, 2035-2044.	1.5	10
84	Sensorless Control of a Fault Tolerant PMSM Drives in Case of Single-Phase Open Circuit Fault. International Journal of Power Electronics and Drive Systems, 2016, 7, 1061.	0.6	2
85	Real-time battery management algorithm for peak demand shaving in small energy communities. , 2015, , .		9
86	Non-contact arc study for DC power systems. , 2015, , .		2
87	Mathematical Modeling of the Harmonic Distortion Caused by a Group of PCs Using Curve Fitting Technique. , 2015, , .		1
88	Estimating current derivatives for sensorless motor drive applications. , 2015, , .		13
89	Real-time deterministic power flow control through dispatch of distributed energy resources. IET Generation, Transmission and Distribution, 2015, 9, 2724-2735.	2.5	10
90	Investigating the impact of varying the number of distributed energy resources on controlling the power flow within a microgrid. , 2015, , .		1

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91	Marine Power Distribution System Fault Location Using a Portable Injection Unit. IEEE Transactions on Power Delivery, 2015, 30, 818-826.	4.3	26
92	A novel stochastic modelling approach for electric vehicle charging power and energy requirements. , 2015, , .		2
93	Investigating the impact of varying the number of distributed energy resources on controlling the power flow within a microgrid. , 2015, , .		2
94	Experimental Measurements and Computer Simulations of Home Appliances Loads for Harmonic Studies. , 2014, , .		11
95	Experimental Measurements and Computer Simulations of FL and CFL for Harmonic Studies. , 2014, , .		0
96	Background voltage distortion and percentage of nonlinear load impacts on the harmonics produced by a group of Personal Computers. , 2014, , .		7
97	Low frequency signal injection for grid impedance estimation in three phase systems. , 2014, , .		7
98	Factors affecting the harmonics generated by a cluster of personal computers. , 2014, , .		4
99	Advanced DC zonal marine power system protection. IET Generation, Transmission and Distribution, 2014, 8, 301-309.	2.5	47
100	Real Time Parameter Estimation for Power Quality Control and Intelligent Protection of Grid-Connected Power Electronic Converters. IEEE Transactions on Smart Grid, 2014, 5, 1602-1607.	9.0	64
101	Energy management research using emulators of renewable generation and loads. , 2013, , .		3
102	Modelling and Simulation of a 3kW Residential Photovoltaic for Harmonics Analysis. , 2013, , .		1
103	Implementation of sensorless control of induction machines using only fundamental PWM waveforms of a two-level converter. IET Power Electronics, 2013, 6, 1575-1582.	2.1	12
104	Power quality of a voltage source converter in a smart grid. , 2013, , .		4
105	Microgrid unbalance compensator - Mitigating the negative effects of unbalanced microgrid operation. , 2013, , .		5
106	Arc fault generation and detection in DC systems. , 2013, , .		14
107	Low Carrier-Fundamental Frequency Ratio PWM for Multilevel Active Shunt Power Filters for Aerospace Applications. IEEE Transactions on Industry Applications, 2013, 49, 159-167.	4.9	30
108	A New Double-Ended Fault-Location Scheme for Utilization in Integrated Power Systems. IEEE Transactions on Power Delivery, 2013, 28, 594-603.	4.3	27

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109	Control and Modulation of a Multilevel Active Filtering Solution for Variable-Speed Constant-Frequency More-Electric Aircraft Grids. IEEE Transactions on Industrial Informatics, 2013, 9, 600-608.	11.3	36
110	Optimal management of stationary lithium-ion battery system in electricity distribution grids. Journal of Power Sources, 2013, 242, 742-755.	7.8	61
111	Mathematical analysis of the equivalent impedance at the harmonic frequency for the proposed aircraft power system. IET Electrical Systems in Transportation, 2013, 3, 87-101.	2.4	2
112	Use of an artificial neural network for current derivative estimation. , 2013, , .		10
113	Fault Location in a Zonal DC Marine Power System Using Active Impedance Estimation. IEEE Transactions on Industry Applications, 2013, 49, 860-865.	4.9	86
114	A New Single-Ended Fault-Location Scheme for Utilization in an Integrated Power System. IEEE Transactions on Power Delivery, 2013, 28, 38-46.	4.3	52
115	Series Arc fault studies and modeling for a DC distribution system. , 2013, , .		17
116	Construction of a current injection unit for marine applications. , 2013, , .		0
117	A novel current derivative measurement using recursive least square algorithms for sensorless control of permanent magnet synchronous machine. , 2012, , .		10
118	The development of real-time wind turbine emulation for microgrid research. , 2012, , .		5
119	Fault location in DC marine power system using multiple injections. , 2012, , .		1
120	Harmonics attenuation of nonlinear loads due to linear loads. , 2012, , .		5
121	Prediction of inductance characteristics of PMSMs in saliency-based sensorless control. , 2012, , .		2
122	Adaptive Selective Compensation for Variable Frequency Active Power Filters in More Electrical Aircraft. IEEE Transactions on Aerospace and Electronic Systems, 2012, 48, 1319-1328.	4.7	27
123	Investigating the Effects of Incorporating Seasonal Variation in a Domestic Active Occupancy Model. Smart Innovation, Systems and Technologies, 2012, , 447-455.	0.6	0
124	Operating limits for drive condition monitoring using supply current signature analysis. , 2011, , .		1
125	Multi-sampled carrier-based PWM for multilevel active shunt power filters for aerospace applications. , 2011, , .		15
126	Fault location for a DC zonal electrical distribution systems using active impedance estimation. , 2011, , .		16

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127	Running DFT-Based PLL Algorithm for Frequency, Phase, and Amplitude Tracking in Aircraft Electrical Systems. IEEE Transactions on Industrial Electronics, 2011, 58, 1027-1035.	7.9	90
128	One-sample-period-ahead predictive current control for high-performance active shunt power filters. IET Power Electronics, 2011, 4, 414.	2.1	82
129	Self healing for a DC zonal distribution architecture using Active Impedance. , 2011, , .		0
130	A novel fault location algorithm utilized in marine system with CWT. , 2011, , .		0
131	Analysis of two-part rotor, axial flux permanent magnet machines. , 2011, , .		0
132	Design of a periphery control FPGA board for electric drive systems. , 2010, , .		0
133	Inductance characteristics of PMSMs and their impact on saliency-based sensorless control. , 2010, , .		17
134	Fault identification for “More Electric” Aircraft distribution systems. , 2010, , .		3
135	Sensorless Control of Induction Machines at Low and Zero Speed by Using PWM Harmonics for Rotor-Bar Slotting Detection. IEEE Transactions on Industry Applications, 2010, 46, 1989-1998.	4.9	31
136	Analysis and Compensation of Inverter Nonlinearity Effect on a Sensorless PMSM Drive at Very Low and Zero Speed Operation. IEEE Transactions on Industrial Electronics, 2010, 57, 4065-4074.	7.9	71
137	Real-time fault diagnostics for a permanent magnet synchronous motor drive for aerospace applications. , 2010, , .		6
138	Fault location in a zonal DC marine power system using Active Impedance Estimation. , 2010, , .		11
139	A Theoretical Analysis of the Harmonic Content of PWM Waveforms for Multiple-Frequency Modulators. IEEE Transactions on Power Electronics, 2010, 25, 131-141.	7.9	45
140	On-line fault diagnostic for AC zonal marine distribution systems. , 2010, , .		1
141	A DC distribution demonstrator incorporating Active Impedance Estimation for marine applications. , 2010, , .		5
142	Wide-speed range sensorless control of an AC PM motor using the PWM waveform of a matrix converter and without di/dt sensors. , 2009, , .		4
143	Experimental verification for stability improvement of sensorless vector control system of induction motor using real-time tuning of observer gain. Electrical Engineering in Japan (English Translation of) Tj ETQq1 1 0784314 ngBT /Overl		
144	Evaluation of Three-Phase Transformerless Photovoltaic Inverter Topologies. IEEE Transactions on Power Electronics, 2009, 24, 2202-2211.	7.9	374

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145	Fault location for DC marine power systems. , 2009, , .		16
146	Experimental modeling and control design of shunt active power filters. Control Engineering Practice, 2009, 17, 1126-1135.	5.5	22
147	Position Estimation of a Matrix-Converter-Fed AC PM Machine From Zero to High Speed Using PWM Excitation. IEEE Transactions on Industrial Electronics, 2009, 56, 2030-2038.	7.9	33
148	Real-Time Estimation of Fundamental Frequency and Harmonics for Active Shunt Power Filters in Aircraft Electrical Systems. IEEE Transactions on Industrial Electronics, 2009, 56, 2875-2884.	7.9	136
149	The Use of Genetic Algorithms for the Design of Resonant Compensators for Active Filters. IEEE Transactions on Industrial Electronics, 2009, 56, 2852-2861.	7.9	66
150	Numerical determination of Jiles's Atherton model parameters. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2009, 28, 493-503.	0.9	19
151	Characteristics of Jiles's Atherton Model Parameters and Their Application to Transformer Inrush Current Simulation. IEEE Transactions on Magnetics, 2008, 44, 340-345.	2.1	49
152	Power System Stabilisation Using STATCOM with Supercapacitors. , 2008, , .		14
153	Condition monitoring for mechanical faults in fully integrated servo drive systems. , 2008, , .		0
154	Modelling and simulation of a signal injection self-sensored drive. , 2008, , .		0
155	On-line detection of stator winding short-circuit faults in a PM machine using HF signal injection. , 2008, , .		19
156	Inverter non-linearity effects on a sensorless PMSM drive without additional test signal injection and zero speed operation. , 2008, , .		3
157	Experimental performance evaluation for low speed and regenerating operation of sensor-less vector control system of induction motor using observer gain tuning. , 2008, , .		0
158	Improved Voltage Harmonic Control for Shunt Active Power Filters Using Multiple Reference Frames. , 2007, , .		3
159	Real-time estimation of fundamental frequency and harmonics for active power filters applications in aircraft electrical systems. , 2007, , .		6
160	Permanent Magnet Synchronous machines for Saliency-based, Self-Sensored Motion Control. , 2007, , .		3
161	Robust Control Design through Experimental Load Identification for Variable Speed Drives. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2007, , .	0.0	1
162	Robust Control Design through Experimental Load Identification for Variable Speed Drives. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2007, , .	0.0	0

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163	Experimental Simplex-Genetic Algorithm for Self-Commissioning of Electric Drives. EPE Journal (European Power Electronics and Drives Journal), 2007, 17, 31-37.	0.7	2
164	A Fast Adaptive Memetic Algorithm for Online and Offline Control Design of PMSM Drives. IEEE Transactions on Systems, Man, and Cybernetics, 2007, 37, 28-41.	5.0	205
165	Evaluation and Modeling of Cross Saturation Due to Leakage Flux in Vector-Controlled Induction Machines. IEEE Transactions on Industry Applications, 2007, 43, 694-702.	4.9	25
166	Position Estimation of AC Machines Over a Wide Frequency Range Based on Space Vector PWM Excitation. IEEE Transactions on Industry Applications, 2007, 43, 1001-1011.	4.9	91
167	Elimination of Waveform Distortions in Matrix Converters Using a New Dual Compensation Method. IEEE Transactions on Industrial Electronics, 2007, 54, 2079-2087.	7.9	62
168	Sensorless Position and Speed Control of Induction Motors Using High-Frequency Injection and Without Offline Precommissioning. IEEE Transactions on Industrial Electronics, 2007, 54, 2474-2481.	7.9	84
169	A Low Switching Frequency High Bandwidth Current Control for Active Shunt Power Filter in Aircrafts Power Networks. , 2007, , .		18
170	The results do mesh. IEEE Industry Applications Magazine, 2007, 13, 62-72.	0.4	45
171	Shaft Sensorless Speed Control of Induction Motor Drive. , 2006, , .		0
172	Shunt Active Filter for Voltage and Power Improvements within a Micro-grid. , 2006, , .		1
173	A Novel High Performance Current Control for Shunt Active Filters. , 2006, , .		3
174	Voltage Balance Control for a Multilevel Interface for Renewable Energy Systems. , 2006, , .		2
175	Performance of HF signal injection techniques for zero-low-frequency vector control of induction Machines under sensorless conditions. IEEE Transactions on Industrial Electronics, 2006, 53, 225-238.	7.9	98
176	Sensorless control of induction Machines at zero and low frequency using zero sequence currents. IEEE Transactions on Industrial Electronics, 2006, 53, 195-206.	7.9	76
177	Hybrid rotor position observer for wide speed-range sensorless PM motor drives including zero speed. IEEE Transactions on Industrial Electronics, 2006, 53, 373-378.	7.9	192
178	Control of an AC Dynamometer for Dynamic Emulation of Mechanical Loads With Stiff and Flexible Shafts. IEEE Transactions on Industrial Electronics, 2006, 53, 1250-1260.	7.9	65
179	A "Two Ahead" Predictive Controller for Active Shunt Power Filters. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	7
180	High Performance Predictive Current Control for Active Shunt Filters. , 2006, , .		10

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181	A High Performance Harmonic Current Control for Shunt Active Filters Based on Resonant Compensators. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	12
182	Comparative analysis of experimental performance and stability of sensorless induction motor drives. IEEE Transactions on Industrial Electronics, 2006, 53, 178-186.	7.9	120
183	Automated Online Design of Robust Speed Digital Controllers For Variable Speed Drives. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2006, , .	0.0	3
184	Automated Online Design of Robust Position and Speed Digital Controllers For Variable Speed Drives. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	1
185	Mitigation of Voltage Dips and Voltage Harmonics within a Micro-grid, using a Single Shunt Active Filter with Energy Storage. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	11
186	Experimental Verification for Stability Improvement of Sensor-less Vector Control System of Induction Motor Using Observer Gain Tuning. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	0
187	A Genetic Algorithm Design Method for A Current Controller Employing "Two Ahead" Prediction. , 2006, , .		2
188	Improved Power Quality Control and Intelligent Protection for Grid Connected Power Electronic Converters, using Real Time Parameter Estimation. Conference Record - IAS Annual Meeting (IEEE) Tj ETQq0 0 0 rgBT.0 Overlook 10 Tf 50	0.0	0
189	High Performance Predictive Current Control for Active Shunt Filters. , 2006, , .		0
190	Shaft Sensorless Speed Control of Induction Motor Drive. , 2006, , .		0
191	A Novel High Performance Current Control for Shunt Active Filters. , 2006, , .		0
192	Shunt Active Filter for Voltage and Power Improvements within a Micro-grid. , 2006, , .		0
193	Voltage Balance Control for a Multilevel Interface for Renewable Energy Systems. , 2006, , .		1
194	Real-time physical data acquisition through a remote sensing platform on a polar lake. Limnology and Oceanography: Methods, 2004, 2, 191-201.	2.0	12
195	Impedance Measurement for Improved Power Qualityâ€”Part 2: A New Technique for Stand-Alone Active Shunt Filter Control. IEEE Transactions on Power Delivery, 2004, 19, 1457-1463.	4.3	49
196	Impedance Measurement for Improved Power Qualityâ€”Part 1: The Measurement Technique. IEEE Transactions on Power Delivery, 2004, 19, 1442-1448.	4.3	115
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