

# Mark Sumner

## List of Publications by Year in descending order

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201  
papers

5,659  
citations

57758

44  
h-index

88630

70  
g-index

201  
all docs

201  
docs citations

201  
times ranked

4280  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of Three-Phase Transformerless Photovoltaic Inverter Topologies. IEEE Transactions on Power Electronics, 2009, 24, 2202-2211.	7.9	374
2	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
3	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
4	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
5	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
6	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
7	A technique for power supply harmonic impedance estimation using a controlled voltage disturbance. IEEE Transactions on Power Electronics, 2002, 17, 207-215.	7.9	129
8	DC-DC Boost Converter With a Wide Input Range and High Voltage Gain for Fuel Cell Vehicles. IEEE Transactions on Power Electronics, 2019, 34, 4100-4111.	7.9	124
9	Comparative analysis of experimental performance and stability of sensorless induction motor drives. IEEE Transactions on Industrial Electronics, 2006, 53, 178-186.	7.9	120
10	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
11	Impedance Measurement for Improved Power Quality—Part 1: The Measurement Technique. IEEE Transactions on Power Delivery, 2004, 19, 1442-1448.	4.3	115
12	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
13	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
14	Hybrid Switched-Capacitor/Switched-Quasi-Z-Source Bidirectional DC-DC Converter With a Wide Voltage Gain Range for Hybrid Energy Sources EVs. IEEE Transactions on Industrial Electronics, 2019, 66, 2680-2690.	7.9	98
15	Influence of Inverter-Interfaced Renewable Energy Generators on Directional Relay and an Improved Scheme. IEEE Transactions on Power Electronics, 2019, 34, 11843-11855.	7.9	98
16	Suppression of saturation saliency effects for the sensorless position control of induction motor drives under loaded conditions. IEEE Transactions on Industrial Electronics, 2000, 47, 1142-1150.	7.9	92
17	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
18	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

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19	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
20	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
21	Analysis and suppression of high-frequency inverter modulation in sensorless position-controlled induction machine drives. IEEE Transactions on Industry Applications, 2003, 39, 10-18.	4.9	86
22	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
23	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
24	One-sample-period-ahead predictive current control for high-performance active shunt power filters. IET Power Electronics, 2011, 4, 414.	2.1	82
25	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
26	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
27	High Frequency Impedance Based Fault Location in Distribution System With DGs. IEEE Transactions on Smart Grid, 2018, 9, 807-816.	9.0	74
28	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
29	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
30	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
31	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
32	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
33	Encoderless position estimation for symmetric cage induction machines under loaded conditions. IEEE Transactions on Industry Applications, 2001, 37, 1793-1800.	4.9	64
34	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
35	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
36	Optimal management of stationary lithium-ion battery system in electricity distribution grids. Journal of Power Sources, 2013, 242, 742-755.	7.8	61

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37	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
38	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
39	A hierarchical two-stage energy management for a home microgrid using model predictive and real-time controllers. Applied Energy, 2020, 269, 115118.	10.1	52
40	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
41	Impedance Measurement for Improved Power Quality—Part 2: A New Technique for Stand-Alone Active Shunt Filter Control. IEEE Transactions on Power Delivery, 2004, 19, 1457-1463.	4.3	49
42	Characteristics of Jiles—Atherton Model Parameters and Their Application to Transformer Inrush Current Simulation. IEEE Transactions on Magnetics, 2008, 44, 340-345.	2.1	49
43	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
44	Advanced DC zonal marine power system protection. IET Generation, Transmission and Distribution, 2014, 8, 301-309.	2.5	47
45	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
46	The results do mesh. IEEE Industry Applications Magazine, 2007, 13, 62-72.	0.4	45
47	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
48	A new single end wideband impedance based fault location scheme for distribution systems. Electric Power Systems Research, 2019, 173, 263-270.	3.6	42
49	Grid impedance estimation for islanding detection and adaptive control of converters. IET Power Electronics, 2017, 10, 1279-1288.	2.1	41
50	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
51	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
52	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
53	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
54	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

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55	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
56	Hierarchical Energy Management System for Microgrid Operation Based on Robust Model Predictive Control. Energies, 2019, 12, 4453.	3.1	30
57	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
58	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
59	Marine Power Distribution System Fault Location Using a Portable Injection Unit. IEEE Transactions on Power Delivery, 2015, 30, 818-826.	4.3	26
60	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
61	A Low-Current Ripple and Wide Voltage-Gain Range Bidirectional DC-DC Converter With Coupled Inductor. IEEE Transactions on Power Electronics, 2020, 35, 1525-1535.	7.9	25
62	Sensorless Rotor Position Control in a Surface Mounted PM Machine Using HF Rotating Injection. EPE Journal (European Power Electronics and Drives Journal), 2003, 13, 12-18.	0.7	22
63	Experimental modeling and control design of shunt active power filters. Control Engineering Practice, 2009, 17, 1126-1135.	5.5	22
64	Distributed Predictive Secondary Control for Imbalance Sharing in AC Microgrids. IEEE Transactions on Smart Grid, 2022, 13, 20-37.	9.0	21
65	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
66	Distributed Predictive Control Strategy for Frequency Restoration of Microgrids Considering Optimal Dispatch. IEEE Transactions on Smart Grid, 2021, 12, 2748-2759.	9.0	20
67	On-line detection of stator winding short-circuit faults in a PM machine using HF signal injection. , 2008, , .		19
68	Numerical determination of Jiles-Atherton model parameters. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2009, 28, 493-503.	0.9	19
69	Performance Assessment of an Energy Management System for a Home Microgrid with PV Generation. Energies, 2020, 13, 3436.	3.1	19
70	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		
71	A Low Switching Frequency High Bandwidth Current Control for Active Shunt Power Filter in Aircrafts Power Networks. , 2007, , .		18
72	Inductance characteristics of PMSMs and their impact on saliency-based sensorless control. , 2010, , .		17

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73	Series Arc fault studies and modeling for a DC distribution system. , 2013, , .		17
74	Fault location for DC marine power systems. , 2009, , .		16
75	Fault location for a DC zonal electrical distribution systems using active impedance estimation. , 2011, , .		16
76	A Wideband Single End Fault Location Scheme for Active Untransposed Distribution Systems. IEEE Transactions on Smart Grid, 2020, 11, 2115-2124.	9.0	16
77	Multi-sampled carrier-based PWM for multilevel active shunt power filters for aerospace applications. , 2011, , .		15
78	Power System Stabilisation Using STATCOM with Supercapacitors. , 2008, , .		14
79	Arc fault generation and detection in DC systems. , 2013, , .		14
80	Optimization based Real-Time Home Energy Management in the Presence of Renewable Energy and Battery Energy Storage. , 2019, , .		14
81	Estimating current derivatives for sensorless motor drive applications. , 2015, , .		13
82	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
83	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
84	Small-Signal Modelling and Stability Assessment of Phase-Locked Loops in Weak Grids. Energies, 2019, 12, 1227.	3.1	13
85	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
86	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
87	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
88	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
89	Fault location in a zonal DC marine power system using Active Impedance Estimation. , 2010, , .		11
90	Experimental Measurements and Computer Simulations of Home Appliances Loads for Harmonic Studies. , 2014, , .		11

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91	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
92	Real-Time Energy Management for a Small Scale PV-Battery Microgrid: Modeling, Design, and Experimental Verification. Energies, 2019, 12, 2712.	3.1	11
93	High Performance Predictive Current Control for Active Shunt Filters. , 2006, , .		10
94	A novel current derivative measurement using recursive least square algorithms for sensorless control of permanent magnet synchronous machine. , 2012, , .		10
95	Use of an artificial neural network for current derivative estimation. , 2013, , .		10
96	Real-time deterministic power flow control through dispatch of distributed energy resources. IET Generation, Transmission and Distribution, 2015, 9, 2724-2735.	2.5	10
97	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
98	Real-time battery management algorithm for peak demand shaving in small energy communities. , 2015, , .		9
99	A double end fault location technique for distribution systems based on fault-generated transients. , 2017, , .		9
100	Being a member of an energy community: Assessing the financial benefits for end-users and management authority. , 2017, , .		9
101	Microgrid Energy Management Using a Two Stage Rolling Horizon Technique for Controlling an Energy Storage System. , 2018, , .		9
102	Measurement and Evaluation of the Conducted Emissions of a DC/DC Power Converter in the Frequency Range 20-150 kHz. , 2018, , .		9
103	A Novel Multiport DC-DC Converter for Enhancing the Design and Performance of Battery-Supercapacitor Hybrid Energy Storage Systems for Unmanned Aerial Vehicles. Applied Sciences (Switzerland), 2022, 12, 2767.	2.5	8
104	A "Two Ahead" Predictive Controller for Active Shunt Power Filters. Industrial Electronics Society (IECON ), Annual Conference of IEEE, 2006, , .	0.0	7
105	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		7
106	Background voltage distortion and percentage of nonlinear load impacts on the harmonics produced by a group of Personal Computers. , 2014, , .		7
107	Low frequency signal injection for grid impedance estimation in three phase systems. , 2014, , .		7
108	Analysis of hybrid energy storage systems with DC link fault ride-through capability. , 2016, , .		7

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109	The effect of including power converter losses when modelling energy storage systems: A UK domestic study. , 2016, , .		7
110	A Novel Modular Multiport Converter for Enhancing the Performance of Photovoltaic-Battery Based Power Systems. Applied Sciences (Switzerland), 2019, 9, 3948.	2.5	7
111	Optimising the structure of a cascaded modular battery system for enhancing the performance of battery packs. Journal of Engineering, 2019, 2019, 3862-3866.	1.1	7
112	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
113	Real-time estimation of fundamental frequency and harmonics for active power filters applications in aircraft electrical systems. , 2007, , .		6
114	Real-time fault diagnostics for a permanent magnet synchronous motor drive for aerospace applications. , 2010, , .		6
115	Sensorless speed control of five-phase PMSM drives with low current distortion. Electrical Engineering, 2018, 100, 357-374.	2.0	6
116	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
117	Fault Ride-Through Power Electronic Topologies for Hybrid Energy Storage Systems. Energies, 2020, 13, 257.	3.1	6
118	A DC distribution demonstrator incorporating Active Impedance Estimation for marine applications. , 2010, , .		5
119	The development of real-time wind turbine emulation for microgrid research. , 2012, , .		5
120	Harmonics attenuation of nonlinear loads due to linear loads. , 2012, , .		5
121	Microgrid unbalance compensator - Mitigating the negative effects of unbalanced microgrid operation. , 2013, , .		5
122	Fault Signal Propagation Through the PMSM Motor Drive Systems. IEEE Transactions on Industry Applications, 2017, 53, 2915-2924.	4.9	5
123	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
124	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
125	Sensorless Speed Control of Five-Phase PMSM Drives in Case of a Single-Phase Open-Circuit Fault. Iranian Journal of Science and Technology - Transactions of Electrical Engineering, 2019, 43, 501-517.	2.3	5
126	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



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127	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
128	Power quality of a voltage source converter in a smart grid. , 2013, , .		4
129	Factors affecting the harmonics generated by a cluster of personal computers. , 2014, , .		4
130	Community power flow control for peak demand reduction and energy cost savings. , 2016, , .		4
131	Development of a battery energy loss observer based on improved equivalent circuit modelling. , 2016, , .		4
132	Realising robust low speed sensorless PMSM control using current derivatives obtained from standard current sensors. , 2017, , .		4
133	Adaptive power flow control for reducing peak demand and maximizing renewable energy usage. , 2017, , .		4
134	Sensorless Control of a Fault Tolerant Multi-level Inverter PMSM Drives in Case of an Open Circuit Fault. , 2018, , .		4
135	Sizing guidelines for grid-connected decentralised energy storage systems: single house application. Journal of Engineering, 2019, 2019, 3802-3806.	1.1	4
136	Distributed Predictive Secondary Control for Voltage Restoration and Economic Dispatch of Generation for DC Microgrids. , 2021, , .		4
137	Distributed Predictive Control using Frequency and Voltage Soft Constraints in AC Microgrids including Economic Dispatch of Generation. , 2021, , .		4
138	Socio-Economic Benefits in Community Energy Structures. Sustainability, 2022, 14, 1890.	3.2	4
139	A Novel High Performance Current Control for Shunt Active Filters. , 2006, , .		3
140	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
141	Improved Voltage Harmonic Control for Shunt Active Power Filters Using Multiple Reference Frames. , 2007, , .		3
142	Permanent Magnet Synchronous machines for Saliency-based, Self-Sensored Motion Control. , 2007, , .		3
143	Inverter non-linearity effects on a sensorless PMSM drive without additional test signal injection and zero speed operation. , 2008, , .		3
144	Fault identification for &#x201C;More Electric&#x201D; Aircraft distribution systems. , 2010, , .		3

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145	Energy management research using emulators of renewable generation and loads. , 2013, , .		3
146	Hybrid active damping of LCL-filtered grid connected converter. , 2016, , .		3
147	Investigating the benefits and limitations of cascaded converter topologies used in modular battery systems. , 2017, , .		3
148	Impact of an inverter-based DG on a double-ended fault location method. Journal of Engineering, 2018, 2018, 1078-1083.	1.1	3
149	Sensorless Speed Control of a Fault-Tolerant Five-Phase PMSM Drives. Electric Power Components and Systems, 2020, 48, 919-932.	1.8	3
150	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
151	Sensorless Control of Seven-Phase PMSM Drives Using NSV-SVPWM with Minimum Current Distortion. Electronics (Switzerland), 2022, 11, 792.	3.1	3
152	Voltage Balance Control for a Multilevel Interface for Renewable Energy Systems. , 2006, , .		2
153	A Genetic Algorithm Design Method for A Current Controller Employing "Two Ahead" Prediction. , 2006, , .		2
154	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
155	Prediction of inductance characteristics of PMSMs in saliency-based sensorless control. , 2012, , .		2
156	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
157	Non-contact arc study for DC power systems. , 2015, , .		2
158	A novel stochastic modelling approach for electric vehicle charging power and energy requirements. , 2015, , .		2
159	Investigating the impact of varying the number of distributed energy resources on controlling the power flow within a microgrid. , 2015, , .		2
160	Design recommendations for energy systems: A UK energy community study. , 2017, , .		2
161	Predictive frequency-based sequence estimator for control of grid-tied converters under highly distorted conditions. , 2017, , .		2
162	Influence of DGs on the Single-Ended Impedance Based Fault Location Technique. , 2018, , .		2

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163	A Wideband Fault Location Scheme for Active Distribution Systems. , 2018, , .		2
164	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
165	Wide frequency range active damping of LCLâ€filtered gridâ€connected converters. Journal of Engineering, 2019, 2019, 3542-3547.	1.1	2
166	A SVM-3D Based Encoderless Control of a Fault-Tolerant PMSM Drive. Electronics (Switzerland), 2020, 9, 1095.	3.1	2
167	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
168	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
169	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
170	Shunt Active Filter for Voltage and Power Improvements within a Micro-grid. , 2006, , .		1
171	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
172	Robust Control Design through Experimental Load Identification for Variable Speed Drives. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2007, , .	0.0	1
173	On-line fault diagnostic for AC zonal marine distribution systems. , 2010, , .		1
174	Operating limits for drive condition monitoring using supply current signature analysis. , 2011, , .		1
175	Fault location in DC marine power system using multiple injections. , 2012, , .		1
176	Modelling and Simulation of a 3kW Residential Photovoltaic for Harmonics Analysis. , 2013, , .		1
177	Mathematical Modeling of the Harmonic Distortion Caused by a Group of PCs Using Curve Fitting Technique. , 2015, , .		1
178	Investigating the impact of varying the number of distributed energy resources on controlling the power flow within a microgrid. , 2015, , .		1
179	An Exploration of Design Options for Integrated Residential PV-ESS. , 2019, , .		1
180	Virtual Synchronous Machine Control for Grid Transmission Compliance Studies. , 2019, , .		1

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181	Voltage Balance Control for a Multilevel Interface for Renewable Energy Systems. , 2006, , .		1
182	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
183	Shaft Sensorless Speed Control of Induction Motor Drive. , 2006, , .		0
184	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
185	Robust Control Design through Experimental Load Identification for Variable Speed Drives. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2007, , .	0.0	0
186	Condition monitoring for mechanical faults in fully integrated servo drive systems. , 2008, , .		0
187	Modelling and simulation of a signal injection self-sensored drive. , 2008, , .		0
188	Experimental performance evaluation for low speed and regenerating operation of sensor-less vector control system of induction motor using observer gain tuning. , 2008, , .		0
189	Design of a periphery control FPGA board for electric drive systems. , 2010, , .		0
190	Self healing for a DC zonal distribution architecture using Active Impedance. , 2011, , .		0
191	A novel fault location algorithm utilized in marine system with CWT. , 2011, , .		0
192	Analysis of two-part rotor, axial flux permanent magnet machines. , 2011, , .		0
193	Construction of a current injection unit for marine applications. , 2013, , .		0
194	Experimental Measurements and Computer Simulations of FL and CFL for Harmonic Studies. , 2014, , .		0
195	Sensorless control of Fault Tolerant PMSM drives in case of single-phase open circuit fault. , 2016, , .		0
196	Utilizing Spare Inverter Capacity for Distribution Grid Voltage Support: An Adaptive Control Scheme. , 2018, , .		0
197	High Performance Predictive Current Control for Active Shunt Filters. , 2006, , .		0
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