Haitham A Abu-Rub

List of Publications by Year
in descending order

446 papers	16,751 citations	22153 59 h-index	20961 115 g-index
500 all docs	500 docs citations	500 times ranked	9861 citing authors

#	Article	IF	Citations
1	Renewable energy resources: Current status, future prospects and their enabling technology. Renewable and Sustainable Energy Reviews, 2014, 39, 748-764.	16.4	2,024
2	State of the Art of Finite Control Set Model Predictive Control in Power Electronics. IEEE Transactions on Industrial Informatics, 2013, 9, 1003-1016.	11.3	1,425
3	Medium-Voltage Multilevel Converters—State of the Art, Challenges, and Requirements in Industrial Applications. IEEE Transactions on Industrial Electronics, 2010, 57, 2581-2596.	7.9	1,093
4	Model Predictive Control of Multilevel Cascaded H-Bridge Inverters. IEEE Transactions on Industrial Electronics, 2010, 57, 2691-2699.	7.9	449
5	An Energy-Stored Quasi-Z-Source Inverter for Application to Photovoltaic Power System. IEEE Transactions on Industrial Electronics, 2013, 60, 4468-4481.	7.9	249
6	Z-Source Inverter: Topology Improvements Review. IEEE Industrial Electronics Magazine, 2016, 10, 6-24.	2.6	242
7	Model Predictive Control of PV Sources in a Smart DC Distribution System: Maximum Power Point Tracking and Droop Control. IEEE Transactions on Energy Conversion, 2014, 29, 913-921.	5.2	240
8	Predictive Current Control of Voltage-Source Inverters. IEEE Transactions on Industrial Electronics, 2004, 51, 585-593.	7.9	213
9	Quasi-Z-Source Inverter-Based Photovoltaic Generation System With Maximum Power Tracking Control Using ANFIS. IEEE Transactions on Sustainable Energy, 2013, 4, 11-20.	8.8	201
10	Assessing Finite-Control-Set Model Predictive Control: A Comparison with a Linear Current Controller in Two-Level Voltage Source Inverters. IEEE Industrial Electronics Magazine, 2014, 8, 44-52.	2.6	189
11	Overview of Space Vector Modulations for Three-Phase Z-Source/Quasi-Z-Source Inverters. IEEE Transactions on Power Electronics, 2014, 29, 2098-2108.	7.9	188
12	Modeling, Impedance Design, and Efficiency Analysis of Quasi- <inline-formula> <tex-math notation="TeX">Z</tex-math></inline-formula> Source Module in Cascaded Multilevel Photovoltaic Power System. IEEE Transactions on Industrial Electronics, 2014, 61, 6108-6117.	7.9	185
13	A novel stacked generalization ensemble-based hybrid LGBM-XGB-MLP model for Short-Term Load Forecasting. Energy, 2021, 214, 118874.	8.8	179
14	Z-Source/Quasi-Z-Source Inverters: Derived Networks, Modulations, Controls, and Emerging Applications to Photovoltaic Conversion. IEEE Industrial Electronics Magazine, 2014, 8, 32-44.	2.6	178
15	An Effective Control Method for Quasi-Z-Source Cascade Multilevel Inverter-Based Grid-Tie Single-Phase Photovoltaic Power System. IEEE Transactions on Industrial Informatics, 2014, 10, 399-407.	11.3	154
16	Finite-Control-Set Model Predictive Control for Grid-Connected Packed-U-Cells Multilevel Inverter. IEEE Transactions on Industrial Electronics, 2016, 63, 7286-7295.	7.9	144
17	An Energy Stored Quasi-Z-Source Cascade Multilevel Inverter-Based Photovoltaic Power Generation System. IEEE Transactions on Industrial Electronics, 2015, 62, 5458-5467.	7.9	141
18	Space-Vector Pulsewidth Modulation for Three-Level NPC Converter With the Neutral Point Voltage Control. IEEE Transactions on Industrial Electronics, 2011, 58, 5076-5086.	7.9	139

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19	Solar Photovoltaic and Thermal Energy Systems: Current Technology and Future Trends. Proceedings of the IEEE, 2017, 105, 2132-2146.	21.3	136
20	MPPT of Photovoltaic Systems Using Sensorless Current-Based Model Predictive Control. IEEE Transactions on Industry Applications, 2017, 53, 1157-1167.	4.9	135
21	Speed and Load Torque Observer Application in High-Speed Train Electric Drive. IEEE Transactions on Industrial Electronics, 2010, 57, 565-574.	7.9	130
22	Speed Sensorless Induction Motor Drive With Predictive Current Controller. IEEE Transactions on Industrial Electronics, 2013, 60, 699-709.	7.9	128
23	A Nine-Level Inverter Topology for Medium-Voltage Induction Motor Drive With Open-End Stator Winding. IEEE Transactions on Industrial Electronics, 2013, 60, 3627-3636.	7.9	120
24	Control System Design of Battery-Assisted Quasi-Z-Source Inverter for Grid-Tie Photovoltaic Power Generation. IEEE Transactions on Sustainable Energy, 2013, 4, 994-1001.	8.8	118
25	Smart grid customers' acceptance and engagement: An overview. Renewable and Sustainable Energy Reviews, 2016, 65, 1285-1298.	16.4	116
26	Modular Multilevel Converter Circulating Current Reduction Using Model Predictive Control. IEEE Transactions on Industrial Electronics, 2016, 63, 3857-3866.	7.9	116
27	Second-Order Continuous-Time Algorithms for Economic Power Dispatch in Smart Grids. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 1482-1492.	9.3	115
28	Predictive Speed Control With Short Prediction Horizon for Permanent Magnet Synchronous Motor Drives. IEEE Transactions on Power Electronics, 2018, 33, 2740-2750.	7.9	108
29	Application of Speed and Load Torque Observers in High-Speed Train Drive for Diagnostic Purposes. IEEE Transactions on Industrial Electronics, 2009, 56, 248-256.	7.9	105
30	Finite-Control-Set Model-Predictive-Control for a Quasi-Z-Source Four-Leg Inverter Under Unbalanced Load Condition. IEEE Transactions on Industrial Electronics, 2017, 64, 2560-2569.	7.9	105
31	AC Microgrid Control and Management Strategies: Evaluation and Review. IEEE Power Electronics Magazine, 2019, 6, 18-31.	0.7	101
32	Artificial-Neural-Network-Based Sensorless Nonlinear Control of Induction Motors. IEEE Transactions on Energy Conversion, 2005, 20, 520-528.	5.2	100
33	Single-Phase Z-Source/Quasi-Z-Source Inverters and Converters: An Overview of Double-Line-Frequency Power-Decoupling Methods and Perspectives. IEEE Industrial Electronics Magazine, 2018, 12, 6-23.	2.6	98
34	Partial discharge detection and diagnosis in gas insulated switchgear: State of the art. IEEE Electrical Insulation Magazine, 2019, 35, 16-33.	0.8	98
35	A Survey on Reduced Switch Count Multilevel Inverters. IEEE Open Journal of the Industrial Electronics Society, 2021, 2, 80-111.	6.8	98
36	An Effective Control Method for Three-Phase Quasi-Z-Source Cascaded Multilevel Inverter Based Grid-Tie Photovoltaic Power System. IEEE Transactions on Industrial Electronics, 2014, 61, 6794-6802.	7.9	97

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37	Comprehensive Modeling of Single-Phase Quasi-Z-Source Photovoltaic Inverter to Investigate Low-Frequency Voltage and Current Ripple. IEEE Transactions on Industrial Electronics, 2015, 62, 4194-4202.	7.9	97
38	Model Predictive Control of Quasi-Z-Source Four-Leg Inverter. IEEE Transactions on Industrial Electronics, 2016, 63, 4506-4516.	7.9	96
39	Medium-Voltage Drives: Challenges and existing technology. IEEE Power Electronics Magazine, 2016, 3, 29-41.	0.7	92
40	Hybrid Pulsewidth Modulated Single-Phase Quasi-Z-Source Grid-Tie Photovoltaic Power System. IEEE Transactions on Industrial Informatics, 2016, 12, 621-632.	11.3	90
41	Instantaneous Reactive Power Minimization and Current Control for an Indirect Matrix Converter Under a Distorted AC Supply. IEEE Transactions on Industrial Informatics, 2012, 8, 482-490.	11.3	88
42	Space Vector PWM Technique for a Three-to-Five-Phase Matrix Converter. IEEE Transactions on Industry Applications, 2012, 48, 697-707.	4.9	87
43	Current Ripple Damping Control to Minimize Impedance Network for Single-Phase Quasi-Z Source Inverter System. IEEE Transactions on Industrial Informatics, 2016, 12, 1043-1054.	11.3	86
44	State-of-Charge Balancing Control for a Battery-Energy-Stored Quasi-Z-Source Cascaded-Multilevel-Inverter-Based Photovoltaic Power System. IEEE Transactions on Industrial Electronics, 2018, 65, 2268-2279.	7.9	85
45	Novel Energy Stored Single-Stage Photovoltaic Power System With Constant DC-Link Peak Voltage. IEEE Transactions on Sustainable Energy, 2014, 5, 28-36.	8.8	83
46	Deep Learning in Smart Grid Technology: A Review of Recent Advancements and Future Prospects. IEEE Access, 2021, 9, 54558-54578.	4.2	79
47	On the Stability of the Power Electronics-Dominated Grid: A New Energy Paradigm. IEEE Industrial Electronics Magazine, 2020, 14, 65-78.	2.6	78
48	Reinforcement Learning for Constrained Energy Trading Games With Incomplete Information. IEEE Transactions on Cybernetics, 2017, 47, 3404-3416.	9.5	76
49	Overview and Partial Discharge Analysis of Power Transformers: A Literature Review. IEEE Access, 2021, 9, 64587-64605.	4.2	76
50	Phaseâ€shifted pulseâ€widthâ€amplitude modulation for quasiâ€Zâ€source cascade multilevel inverterâ€based photovoltaic power system. IET Power Electronics, 2014, 7, 1444-1456.	2.1	75
51	High-Performance Predictive Control of Quasi-Impedance Source Inverter. IEEE Transactions on Power Electronics, 2017, 32, 3251-3262.	7.9	74
52	Review on Single-DC-Source Multilevel Inverters: Topologies, Challenges, Industrial Applications, and Recommendations. IEEE Open Journal of the Industrial Electronics Society, 2021, 2, 112-127.	6.8	74
53	Multi-modular cascaded DC-DC converter for HVDC grid connection of large-scale photovoltaic power systems. , 2013, , .		72
54	Front-End Isolated Quasi-Z-Source DCâ€"DC Converter Modules in Series for High-Power Photovoltaic Systemsâ€"Part I: Configuration, Operation, and Evaluation. IEEE Transactions on Industrial Electronics, 2017, 64, 347-358.	7.9	71

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55	Energy storage system-based power control for grid-connected wind power farm. International Journal of Electrical Power and Energy Systems, 2013, 44, 115-122.	5.5	68
56	Z-Source Matrix Converter: An Overview. IEEE Transactions on Power Electronics, 2016, 31, 7436-7450.	7.9	68
57	Efficient maximum power point tracking using model predictive control for photovoltaic systems under dynamic weather condition. IET Renewable Power Generation, 2017, 11, 1401-1409.	3.1	67
58	Smart Grid Big Data Analytics: Survey of Technologies, Techniques, and Applications. IEEE Access, 2021, 9, 59564-59585.	4.2	67
59	Towards Grid of Microgrids: Seamless Transition between Grid-Connected and Islanded Modes of Operation. IEEE Open Journal of the Industrial Electronics Society, 2020, 1, 66-81.	6.8	66
60	An Effective Hybrid NARX-LSTM Model for Point and Interval PV Power Forecasting. IEEE Access, 2021, 9, 36571-36588.	4.2	66
61	Simple Carrier-Based PWM Technique for a Three-to-Nine-Phase Direct AC–AC Converter. IEEE Transactions on Industrial Electronics, 2011, 58, 5014-5023.	7.9	65
62	An Effective Control Technique for Medium-Voltage High-Power Induction Motor Fed by Cascaded Neutral-Point-Clamped Inverter. IEEE Transactions on Industrial Electronics, 2010, 57, 2659-2668.	7.9	61
63	Model Predictive Direct Power Control for Active Power Decoupled Single-Phase Quasi-<italic>Z</italic> -Source Inverter. IEEE Transactions on Industrial Informatics, 2016, 12, 1550-1559.	11.3	61
64	Reinforcement Learning in Energy Trading Game among Smart Microgrids. IEEE Transactions on Industrial Electronics, 2016, , 1-1.	7.9	61
65	Online Computation of Hysteresis Boundary for Constant Switching Frequency Current-Error Space-Vector-Based Hysteresis Controller for VSI-Fed IM Drives. IEEE Transactions on Power Electronics, 2012, 27, 1521-1529.	7.9	60
66	Generalized Duty-Ratio-Based Pulsewidth Modulation Technique for a Three-to- k Phase Matrix Converter. IEEE Transactions on Industrial Electronics, 2011, 58, 3925-3937.	7.9	59
67	Modelling and controller design of quasi–Z–source inverter with battery–based photovoltaic power system. IET Power Electronics, 2014, 7, 1665-1674.	2.1	59
68	Full Predictive Cascaded Speed and Current Control of an Induction Machine. IEEE Transactions on Energy Conversion, 2016, 31, 1059-1067.	5.2	58
69	A Novel Three-Phase to Five-Phase Transformation Using a Special Transformer Connection. IEEE Transactions on Power Delivery, 2010, 25, 1637-1644.	4.3	56
70	A Quasi-Z-Source Direct Matrix Converter Feeding a Vector Controlled Induction Motor Drive. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2015, 3, 339-348.	5.4	55
71	An Active Filter Method to Eliminate DC-Side Low-Frequency Power for Single-Phase Quasi-Z Source Inverter. IEEE Transactions on Industrial Electronics, 2016, , 1-1.	7.9	55
72	Comparative Evaluation of Three Z-Source/Quasi-Z-Source Indirect Matrix Converters. IEEE Transactions on Industrial Electronics, 2015, 62, 692-701.	7.9	54

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73	Sensorless model predictive control scheme of wind–driven doubly fed induction generator in dc microgrid. IET Renewable Power Generation, 2016, 10, 514-521.	3.1	54
74	Model Predictive Control of a Capacitorless Matrix Converter-Based STATCOM. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2017, 5, 796-808.	5.4	51
75	Impact of grid–tied large–scale photovoltaic system on dynamic voltage stability of electric power grids. IET Renewable Power Generation, 2018, 12, 157-164.	3.1	51
76	Modeling and SVPWM control of quasi-Z-source inverter. , 2011, , .		50
77	Household-Level Energy Forecasting in Smart Buildings Using a Novel Hybrid Deep Learning Model. IEEE Access, 2021, 9, 33498-33511.	4.2	50
78	Variable- and Fixed-Switching-Frequency-Based HCC Methods for Grid-Connected VSI With Active Damping and Zero Steady-State Error. IEEE Transactions on Industrial Electronics, 2017, 64, 7009-7018.	7.9	48
79	An Effective Sliding Mode Control Design for a Grid-Connected PUC7 Multilevel Inverter. IEEE Transactions on Industrial Electronics, 2020, 67, 3717-3725.	7.9	46
80	Common-Mode Voltage Elimination in a Three-to-Five-Phase Dual Matrix Converter Feeding a Five-Phase Open-End Drive Using Space-Vector Modulation Technique. IEEE Transactions on Industrial Electronics, 2015, 62, 6051-6063.	7.9	45
81	Robust Adaptive Observer-Based Model Predictive Control for Multilevel Flying Capacitors Inverter. IEEE Transactions on Industrial Electronics, 2016, 63, 7876-7886.	7.9	44
82	Direct Instantaneous Ripple Power Predictive Control for Active Ripple Decoupling of Single-Phase Inverter. IEEE Transactions on Industrial Electronics, 2018, 65, 3165-3175.	7.9	44
83	Deep Learning-Based Short-Term Load Forecasting Approach in Smart Grid With Clustering and Consumption Pattern Recognition. IEEE Access, 2021, 9, 54992-55008.	4.2	42
84	A Discrete-Time Average Model-Based Predictive Control for a Quasi-Z-Source Inverter. IEEE Transactions on Industrial Electronics, 2018, 65, 6044-6054.	7.9	41
85	Advanced Control of Induction Motor Based on Load Angle Estimation. IEEE Transactions on Industrial Electronics, 2004, 51, 5-14.	7.9	40
86	Speed observer system for advanced sensorless control of induction motor. IEEE Transactions on Energy Conversion, 2003, 18, 219-224.	5.2	39
87	Double-Line-Frequency Ripple Model, Analysis, and Impedance Design for Energy-Stored Single-Phase Quasi-Z-Source Photovoltaic System. IEEE Transactions on Industrial Electronics, 2018, 65, 3198-3209.	7.9	39
88	Predictive Control of a Grid-Tied Cascaded Full-Bridge NPC Inverter for Reducing High-Frequency Common-Mode Voltage Components. IEEE Transactions on Industrial Informatics, 2018, 14, 2385-2394.	11.3	39
89	Modelling and controller design of quasi–Z–source cascaded multilevel inverter–based three–phase grid–tie photovoltaic power system. IET Renewable Power Generation, 2014, 8, 925-936.	3.1	38
90	Deadbeat Predictive Control for PMSM Drives With 3-L NPC Inverter Accounting for Saturation Effects. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2018, 6, 1671-1680.	5.4	37

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91	Convergence of Photovoltaic Power Forecasting and Deep Learning: State-of-Art Review. IEEE Access, 2021, 9, 136593-136615.	4.2	37
92	Theoretical and experimental evaluation of four space†vector modulations applied to quasi†‹i›Z‹/i›†source inverters. IET Power Electronics, 2013, 6, 1257-1269.	2.1	36
93	On the Electromagnetic Wave Behavior Due to Partial Discharge in Gas Insulated Switchgears: State-of-Art Review. IEEE Access, 2019, 7, 75822-75836.	4.2	36
94	Interactive Grid Interfacing System by Matrix-Converter-Based Solid State Transformer With Model Predictive Control. IEEE Transactions on Industrial Informatics, 2020, 16, 2533-2541.	11.3	36
95	Modeling, Analysis, and Parameters Design of *LC*-Filter-Integrated Quasi-*Z*-Source Indirect Matrix Converter. IEEE Transactions on Power Electronics, 2016, 31, 7544-7555.	7.9	35
96	Model-Based Current Control for Single-Phase Grid-Tied Quasi-Z-Source Inverters With Virtual Time Constant. IEEE Transactions on Industrial Electronics, 2018, 65, 8277-8286.	7.9	35
97	A Lyapunov-Based Model Predictive Control Design With Reduced Sensors for a PUC7 Rectifier. IEEE Transactions on Industrial Electronics, 2021, 68, 1139-1147.	7.9	35
98	Adaptive neuro-fuzzy inference system based maximum power point tracking of a solar PV module. , 2010, , .		34
99	PLS-CNN-BiLSTM: An End-to-End Algorithm-Based Savitzky†Golay Smoothing and Evolution Strategy for Load Forecasting. Energies, 2020, 13, 5464.	3.1	34
100	Three-Phase to Seven-Phase Power Converting Transformer. IEEE Transactions on Energy Conversion, 2012, 27, 757-766.	5.2	32
101	An overview for the Z-Source Converter in motor drive applications. Renewable and Sustainable Energy Reviews, 2016, 61, 537-555.	16.4	32
102	Fuzzy†PI†based sensorless frequency and voltage controller for doubly fed induction generator connected to a DC microgrid. IET Renewable Power Generation, 2016, 10, 1069-1077.	3.1	32
103	Power flow control for quasi-Z source inverter with battery based PV power generation system. , 2011, , .		31
104	ANN-based for detection, diagnosis the bearing fault for three phase induction motors using current signal. , 2013, , .		30
105	Front-End Isolated Quasi-Z-Source DC†DC Converter Modules in Series for High-Power Photovoltaic Systems†Part II: Control, Dynamic Model, and Downscaled Verification. IEEE Transactions on Industrial Electronics, 2017, 64, 359-368.	7.9	30
106	Switched reluctance motor converter topologies: A review. , 2014, , .		29
107	Impedance design of quasi-Z source network to limit double fundamental frequency voltage and current ripples in single-phase quasi-Z source inverter. , 2013, , .		28
108	Finite set model predictive current control with reduced and constant common mode voltage for a five-phase voltage source inverter. , 2014, , .		28

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109	A Multiprocessing-Based Sensitivity Analysis of Machine Learning Algorithms for Load Forecasting of Electric Power Distribution System. IEEE Access, 2021, 9, 31684-31694.	4.2	28
110	High step-up continuous input current LCCT-Z-source inverters for fuel cells. , 2011, , .		27
111	An effective Model Predictive Control for grid connected Packed U Cells multilevel inverter. , 2016, , .		27
112	A distributed continuous time consensus algorithm for maximize social welfare in micro grid. Journal of the Franklin Institute, 2016, 353, 3966-3984.	3.4	27
113	Adaptive neuro-fuzzy inference system-based maximum power point tracking of solar PV modules for fast varying solar radiations. International Journal of Sustainable Energy, 2012, 31, 383-398.	2.4	26
114	Dielectric Performance of Magneto-Nanofluids for Advancing Oil-Immersed Power Transformer. IEEE Access, 2020, 8, 163316-163328.	4.2	26
115	A modular multilevel space vector modulation for photovoltaic quasi-Z-source cascade multilevel inverter. , 2013, , .		25
116	Power quality effect of using incandescent, fluorescent, CFL and LED lamps on utility grid. , 2015, , .		25
117	1-MW quasi-Z-source based multilevel PV energy conversion system. , 2016, , .		25
118	High performance predictive control applied to three phase grid connected Quasi-Z-Source Inverter. , 2013, , .		24
119	MRAS-based sensorless control of a five-phase induction motor drive with a predictive adaptive model. , 2010, , .		23
120	A novel quasiâ€Zâ€source indirect matrix converter. International Journal of Circuit Theory and Applications, 2015, 43, 438-454.	2.0	23
121	Computationally Efficient Distributed Predictive Controller for Cascaded Multilevel Impedance Source Inverter With LVRT Capability. IEEE Access, 2019, 7, 35731-35742.	4.2	23
122	A Hybrid Bayesian Ridge Regression-CWT-Catboost Model For PV Power Forecasting. , 2020, , .		23
123	Modeling, simulation and implementation of a five-phase induction motor drive system. , 2010, , .		22
124	Nine-to-Three Phase Direct Matrix Converter with Model Predictive Control for Wind Generation System. Energy Procedia, 2013, 42, 173-182.	1.8	22
125	Lyapunov Energy Function Based Control Method for Three-Phase UPS Inverters With Output Voltage Feedback Loops. IEEE Access, 2019, 7, 113699-113711.	4.2	22
126	Artificial Intelligence-Based Weighting Factor Autotuning for Model Predictive Control of Grid-Tied Packed U-Cell Inverter. Energies, 2020, 13, 3107.	3.1	22

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127	Predictive current controller for sensorless induction motor drive. , 2010, , .		21
128	Sensorless direct torque control of five-phase induction motor drives. , 2011, , .		21
129	Model Predictive Control applied for Quasi-Z-source inverter. , 2013, , .		21
130	Autonomous Model Predictive Controlled Smart Inverter With Proactive Grid Fault Ride-Through Capability. IEEE Transactions on Energy Conversion, 2020, 35, 1825-1836.	5.2	21
131	Novel Level-Shifted PWM Technique for Equal Power Sharing Among Quasi-Z-Source Modules in Cascaded Multilevel Inverter. IEEE Transactions on Power Electronics, 2021, 36, 4766-4777.	7.9	21
132	Enhanced Deep Belief Network Based on Ensemble Learning and Tree-Structured of Parzen Estimators: An Optimal Photovoltaic Power Forecasting Method. IEEE Access, 2021, 9, 150330-150344.	4.2	21
133	A Simple Control Technique for Distributed Generations in Grid-Connected and Islanded Modes. , 2018, , .		20
134	Big Data Management in Smart Grids: Technologies and Challenges. IEEE Access, 2021, 9, 73046-73059.	4.2	20
135	Model predictive control of quasi-Z source three-phase four-leg inverter. , 2015, , .		19
136	On Stability of PV Clusters With Distributed Power Reserve Capability. IEEE Transactions on Industrial Electronics, 2021, 68, 3928-3938.	7.9	19
137	Medium voltage drives - challenges and requirements. , 2010, , .		18
138	Modified MPPT with using model predictive control for multilevel boost converter. , 2012, , .		18
139	Detection, diagnoses and discrimination of stator turn to turn fault and unbalanced supply voltage fault for three phase induction motors. , 2012, , .		18
140	Experimental studies on a three phase improved switched Z-source inverter. , 2014, , .		18
141	Control strategy and hardware implementation for DCâ€"DC boost power circuit based on proportionalâ€"integral compensator for high voltage application. Engineering Science and Technology, an International Journal, 2015, 18, 163-170.	3.2	18
142	Model Predictive Control of Z-Source four-leg inverter for standalone Photovoltaic system with unbalanced load. , 2016, , .		18
143	Cybersecurity Analytics using Smart Inverters in Power Distribution System: Proactive Intrusion Detection and Corrective Control Framework. , 2019, , .		18
144	Sensorless Field-Oriented Control for Open-End Winding Five-Phase Induction Motor With Parameters Estimation. IEEE Open Journal of the Industrial Electronics Society, 2021, 2, 266-279.	6.8	18

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145	PLL-less Active and Reactive Power Controller for Grid-Following Inverter. , 2020, , .		18
146	Model predictive control of a three-to-five phase matrix converter. , 2011, , .		17
147	Five-to-three phase direct matrix converter with model predictive control. , 2013, , .		17
148	Common mode voltage elimination scheme for dual-inverter fed five phase AC drives with open-end stator windings. , 2013, , .		17
149	A novel indirect quasi-Z-source matrix converter applied to induction motor drives. , 2013, , .		17
150	Optimum Boost Control of Quasi-Z Source Indirect Matrix Converter. IEEE Transactions on Industrial Electronics, 2018, 65, 8393-8404.	7.9	17
151	Hierarchical Model Predictive Control of Grid-Connected Cascaded Multilevel Inverter. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 3137-3149.	5.4	17
152	Space vector PWM technique for a novel three-to-five phase matrix converter. , 2010, , .		16
153	Control of single phase grid connected multilevel inverter using model predictive control. , 2013, , .		16
154	Simple speed sensorless DTC-SVM scheme for induction motor drives. Bulletin of the Polish Academy of Sciences: Technical Sciences, 2013, 61, 301-307.	0.8	16
155	Modeling, analysis, and motor drive application of quasi-Z-source indirect matrix converter. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2013, 33, 298-319.	0.9	16
156	A hybrid modulation method for single-phase quasi-Z source inverter. , 2014, , .		16
157	An active power decoupling quasi-Z-source cascaded multilevel inverter. , 2016, , .		16
158	A Model Predictive Control technique for utility-scale grid connected battery systems using packed U cells multilevel inverter. , 2016, , .		16
159	Investigation on pulseâ€width amplitude modulationâ€based singleâ€phase quasiâ€Zâ€source photovoltaic inverter. IET Power Electronics, 2017, 10, 1810-1818.	2.1	16
160	Power electronic converters and control techniques in AC microgrids. , 2017, , .		16
161	Model predictive control of packed U cells based transformerless single-phase dynamic voltage restorer. , 2018, , .		16
162	Performance Evaluation of Distributed Machine Learning for Load Forecasting in Smart Grids. , 2020, , .		16

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163	Computationally-Efficient Optimal Control of Cascaded Multilevel Inverters With Power Balance for Energy Storage Systems. IEEE Transactions on Industrial Electronics, 2021, 68, 12285-12295.	7.9	16
164	Model predictive control of a grid connected quasi-Z-source inverter. , 2013, , .		15
165	Model predictive sensorless control of standalone doubly fed induction generator. , 2014, , .		15
166	Model predictive current control of a three-level five-phase NPC VSI using simplified computational approach. , 2014, , .		15
167	An active filter method to eliminate dc-side low-frequency power for single-phase quasi-Z source inverter. , 2015, , .		15
168	Model predictive control of interleaved boost converters for synchronous generator wind energy conversion systems. , 2015, , .		15
169	Model predictive droop control of distributed generation inverters in islanded AC microgrid. , 2017, , .		15
170	Quasi-Z-Source Three-to-Single-Phase Matrix Converter and Ripple Power Compensation Based on Model Predictive Control. IEEE Transactions on Industrial Electronics, 2018, 65, 5146-5156.	7.9	15
171	Characterization of Defects Inside the Cable Dielectric With Partial Discharge Modeling. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	4.7	15
172	An Effective Finite Control Set-Model Predictive Control Method for Grid Integrated Solar PV. IEEE Access, 2021, 9, 144481-144492.	4.2	15
173	An advanced low-cost sensorless induction motor drive. IEEE Transactions on Industry Applications, 2003, 39, 1757-1764.	4.9	14
174	Maximum Torque Production in Rotor Field Oriented Control of an Induction Motor at Field Weakening. , 2007, , .		14
175	Sensorless observer system for induction motor control. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	14
176	A novel FPGA implementation of a model predictive controller for SiC-based Quasi-Z-Source inverters. , 2014, , .		14
177	Multiphase Wind Energy generation with direct matrix converter. , 2014, , .		14
178	ANN-based system for inter-turn stator winding fault tolerant DTC for induction motor drives. , 2015, , .		14
179	Common mode voltage reduction of quasiâ€Z source indirect matrix converter. International Journal of Circuit Theory and Applications, 2016, 44, 162-184.	2.0	14
180	Lyapunov-function based control approach with cascaded PR controllers for single-phase grid-tied LCL-filtered quasi-Z-source inverters. , 2017, , .		14

#	Article	IF	Citations
181	Low Complexity Model Predictive Control of PUC5 Based Dynamic Voltage Restorer. , 2018, , .		14
182	A Review on Big Data Management and Decision-Making in Smart Grid. Power Electronics and Drives, 2019, 4, 1-13.	0.9	14
183	Multivariate Features Extraction and Effective Decision Making Using Machine Learning Approaches. Energies, 2020, 13, 609.	3.1	14
184	PWM scheme for dual matrix converters based five-phase open-end winding drive. , 2013, , .		13
185	Adaptive fuzzy logic-controlled surface mount permanent magnet synchronous motor drive. Systems Science and Control Engineering, 2014, 2, 465-475.	3.1	13
186	Modeling, analysis, and impedance design of battery energy stored single-phase quasi-Z source photovoltaic inverter system. , 2016, , .		13
187	Big data, better energy management and control decisions for distribution systems in smart grid. , 2016, , .		13
188	A five-level neutral-point-clamped/H-Bridge quasi-impedance source inverter for grid connected PV system. , 2016, , .		13
189	Model predictive control of five-level H-bridge neutral-point-clamped qZS inverter. , 2016, , .		13
190	Predictive Control of Power Electronic Converters. , 2018, , 1325-1338.		13
191	Reliability evaluation of smart grid system with large penetration of distributed energy resources. , 2018, , .		13
192	PD Signal Propagation in GIS: Ultra-High Frequency Detection-Based Modeling. IEEE Sensors Journal, 2020, 20, 9417-9426.	4.7	13
193	Intrusion Detection for Cybersecurity of Power Electronics Dominated Grids: Inverters PQ Set-Points Manipulation. , 2020, , .		13
194	An Observer Based Intrusion Detection Framework for Smart Inverters at the Grid-Edge. , 2020, , .		13
195	Implementation of smart residential energy management system for smart grid. , 2015, , .		12
196	An original observer design for reduced sensor control of Packed U Cells based renewable energy system. International Journal of Hydrogen Energy, 2017, 42, 17910-17916.	7.1	12
197	Short-Term Electric Load Forecasting Based on Data-Driven Deep Learning Techniques. , 2020, , .		12
198	Accurate Smart-Grid Stability Forecasting Based on Deep Learning: Point and Interval Estimation Method. , 2021, , .		12

#	Article	IF	Citations
199	Inception and Propagation of Electrical Trees in the Presence of Space Charge in HVAC Extruded Cables. IEEE Transactions on Dielectrics and Electrical Insulation, 2021, 28, 1775-1784.	2.9	12
200	Model predictive control for Cascaded H-bridge multilevel inverters with even power distribution. , 2010, , .		11
201	Feasibility analysis of solar photovoltaic array cladding on commercial towers in Doha, Qatar â€" a case study. International Journal of Sustainable Energy, 2010, 29, 76-86.	2.4	11
202	Incipient bearing fault diagnostics for inverter fed induction motor drive using ANFIS. , 2010, , .		11
203	Finite control set model predictive current control of a five-phase voltage source inverter. , 2010, , .		11
204	Modeling and controller design of quasi-Z-Source inverter with battery based photovoltaic power system. , 2012, , .		11
205	Impedance design of 21-kW quasi-Z-source H-bridge module for MW-scale medium-voltage cascaded multilevel photovoltaic inverter. , 2014, , .		11
206	Minimized Quasi-Z source network for single-phase inverter. , 2015, , .		11
207	Space vector pulseâ€width modulation technique for an elevenâ€phase voltage source inverter with sinusoidal output voltage generation. IET Power Electronics, 2015, 8, 1000-1008.	2.1	11
208	Comparison of GaN and SiC power devices in application to MW-scale quasi-Z-source cascaded multilevel inverters. , 2016, , .		11
209	PWAM controlled quasi-Z source motor drive. , 2017, , .		11
210	Averaging Ensembles Model for Forecasting of Short-term Load in Smart Grids. , 2019, , .		11
211	Auto-tuned Model Parameters in Predictive Control of Power Electronics Converters. , 2019, , .		11
212	Microgrid Control Strategies for Seamless Transition Between Grid-Connected and Islanded Modes. , 2020, , .		11
213	Real-Time Implementation of an Optimized Model Predictive Control for a 9-Level CSC Inverter in Grid-Connected Mode. Sustainability, 2021, 13, 8119.	3.2	11
214	Novel Level-Shifted PWM Technique for Cascaded Multilevel Quasi-Impedance Source Inverter. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 5918-5928.	5.4	11
215	Anomaly Detection in Distribution Power System based on a Condition Monitoring Vector and Ultra-Short Demand Forecasting. , 2020, , .		11
216	Nonlinear autoregressive moving average (NARMA-L2) controller for advanced ac motor control. , 2008, , .		10

#	Article	IF	Citations
217	Finite state model predictive current control of a three-level five-phase NPC voltage source inverter. , 2010, , .		10
218	Carrier based PWM technique for a novel three-to-seven phase matrix converter. , 2010, , .		10
219	A new switched-inductor quasi-Z-source inverter topology. , 2012, , .		10
220	Field oriented control of a five phase induction motor fey by a Z-source inverter. , 2013, , .		10
221	Space vector PWM technique for a novel three-to-seven phase matrix converter. , 2013, , .		10
222	Fault Tolerance of Stator Turn Fault for Three Phase Induction Motors Star-Connected Using Artificial Neural Network. , 2013, , .		10
223	Discrimination of stator winding turn fault and unbalanced supply voltage in permanent magnet synchronous motor using ANN. , 2013, , .		10
224	Predictive torque control of an induction motor fed by a bidirectional quasi Z-source inverter. , 2013, , .		10
225	Improved Space Vector Modulation for Three-to-Seven Phase Matrix Converter with Reduced Number of Switching Vectors. IEEE Transactions on Industrial Electronics, 2014, , 1-1.	7.9	10
226	Space vector pulse width modulation scheme for three to seven phase direct matrix converter. , 2014, , .		10
227	An interconnected observer for modular multilevel converter. , 2016, , .		10
228	Front-end isolated quasi-Z-source DC-DC converter modules in series for photovoltaic high-voltage DC applications. , 2016, , .		10
229	A model predictive control for low-frequency ripple power elimination of active power filter integrated single-phase quasi-Z-source inverter. , 2017, , .		10
230	Overview of double-line-frequency power decoupling techniques for single-phase Z-Source/Quasi-Z-Source inverter. , 2017, , .		10
231	Computationally-efficient Hierarchical Optimal Controller for Grid-tied Cascaded Multilevel Inverters. , 2019, , .		10
232	Single-Phase Grid-Interactive Inverter With Resonance Suppression Based on Adaptive Predictive Control in Weak Grid Condition. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2022, 3, 809-820.	3.9	10
233	An Effective Ensemble Learning approach-Based Grid Stability Assessment and Classification. , 2021, , .		10
234	Generalized Predictive Direct Power Control With Constant Switching Frequency for Multilevel Four-Leg Grid Connected Converter. IEEE Transactions on Power Electronics, 2022, 37, 6625-6636.	7.9	10

#	Article	IF	Citations
235	Indirect field oriented control of an induction motor fed by a bidirectional quasi Z-source inverter. , 2012, , .		9
236	Space vector PWM for a five to three matrix converter. , 2013, , .		9
237	Model predictive control of a matrix-converter based solid state transformer for utility grid interaction. , 2016, , .		9
238	Failure mode analysis for single-phase Multi-level qZSI interfacing PV system to utility grid. , 2017, , .		9
239	Pulse width amplitude modulation based single-phase quasi-Z-source photovoltaic inverter with energy storage battery. , 2017, , .		9
240	Model predictive control for permanent magnet synchronous motor drives considering cross-saturation effects. , 2017, , .		9
241	A simple resonant frequency tracking technique for LLC resonant converters. , 2017, , .		9
242	Big data impact on stability and reliability improvement of smart grid. , 2017, , .		9
243	High performance voltage-sensorless model predictive control for grid integration of packed U cells based PV system. , 2017, , .		9
244	Robust sliding mode control for three-phase rectifier supplied by non-ideal voltage. Control Engineering Practice, 2018, 77, 73-85.	5.5	9
245	Selected harmonics elimination in multilevel inverter using improved numerical technique. , 2018, , .		9
246	UHF Partial Discharge Localization in Gas-Insulated Switchgears: Gradient Boosting Based Approach. , 2020, , .		9
247	Rank-Based Predictive Control for Community Microgrids With Dynamic Topology and Multiple Points of Common Coupling. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2022, 3, 144-155.	3.9	9
248	Speed sensorless nonlinear control of induction motor in the field weakening region. , 2008, , .		8
249	Sensorless induction motor drive with voltage inverter and sine-wave filter. , 2013, , .		8
250	Common-mode voltage elimination in a three-to-seven phase dual matrix converter feeding a seven phase open-end induction motor drive. , 2014, , .		8
251	Common-mode voltage control through vector selection in three-to-five phase matrix converter. , 2014, , .		8
252	Modeling and Experimental Study of Three-phase Improved Switched Inductor Z-Source Inverter. EPE Journal (European Power Electronics and Drives Journal), 2014, 24, 14-27.	0.7	8

#	Article	IF	Citations
253	SiC power devices and applications in quasi-z-source converters/inverters. , 2015, , .		8
254	ANN-based diagnosis of incipient stator winding turn faults for three-phase induction motors in the presence of unbalanced supply voltage. , 2015, , .		8
255	Space vector PWM for a three-phase to six-phase direct AC/AC converter. , 2015, , .		8
256	Bayesian methods for time-varying state and parameter estimation in induction machines. International Journal of Adaptive Control and Signal Processing, 2015, 29, 905-924.	4.1	8
257	Model predictive control of three-phase three-level Neutral-Point-Clamped qZS inverter. , 2016, , .		8
258	Multi-objective model predictive control for grid-tied 15-level packed U cells inverter. , 2016, , .		8
259	A modified symmetric and asymmetric multilevel power inverter with reduced number of power switches controlled by MPC. , 2017, , .		8
260	On Frequency Control Techniques for Microgrids. , 2018, , .		8
261	Smart Energy Management System for Distributed Generations in AC Microgrid. , 2019, , .		8
262	Model Predictive Control for Parallel Connected Three-Phase Four-Leg Inverters in Islanded AC Microgrids. , 2019, , .		8
263	Self-healing Model Predictive Controlled Cascaded Multilevel Inverter. , 2019, , .		8
264	Investigation of Void Size and Location on Partial Discharge Activity in High Voltage XLPE Cable Insulation. , 2019, , .		8
265	Short-term Power Forecasting Model Based on Dimensionality Reduction and Deep Learning Techniques for Smart Grid. , 2020, , .		8
266	Real-Time Selective Harmonic Mitigation Technique for Power Converters Based on the Exchange Market Algorithm. Energies, 2020, 13, 1659.	3.1	8
267	Diagnosis of Stator Turn-to-Turn Fault and Stator Voltage Unbalance Fault Using ANFIS. International Journal of Electrical and Computer Engineering, 2012, 3, .	0.7	8
268	Intrusion Detection Method Based on SMOTE Transformation for Smart Grid Cybersecurity. , 2022, , .		8
269	Selective Harmonics Elimination for a three-level diode clamped five-phase inverter based on Particle Swarm Optimization. , 2011, , .		7
270	Rotor broken bar diagnostics in induction motor drive using Wavelet packet transform and ANFIS classification. , 2011, , .		7

#	Article	IF	Citations
271	Speed sensorless induction motor drive with motor choke and predictive control. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2011, 30, 686-705.	0.9	7
272	Torque control strategies for a high performance switched reluctance motor drive system. , 2013, , .		7
273	Field oriented control of an induction motor fed by a quasi-Z-source direct matrix converter. , 2013, , .		7
274	A new space vector modulation strategy to reduce common-mode voltage for quasi-Z-source indirect matrix converter. , 2014, , .		7
275	A Measurement-Based Approach for Speed Control of Induction Machines. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2014, 2, 308-318.	5.4	7
276	Single-phase cascaded H-bridge neutral-point clamped inverter: A comparison between MPC and PI control. , 2016, , .		7
277	Distributed Tree-Based Machine Learning for Short-Term Load Forecasting With Apache Spark. IEEE Access, 2021, 9, 57372-57384.	4.2	7
278	Detection of Energy Theft in Smart Grids using Electricity Consumption Patterns. , 2020, , .		7
279	Performance Evaluation of Tree-based Models for Big Data Load Forecasting using Randomized Hyperparameter Tuning. , 2020, , .		7
280	Average Model-Based Feedforward and Feedback Control for PUC5 Inverter. IEEE Access, 2020, 8, 172962-172971.	4.2	7
281	On Droop-based Voltage and Frequency Restoration Techniques for Islanded Microgrids. , 2021, , .		7
282	Simplified Predictive Direct Power Control of Three-Phase Three-Level Four-Leg Grid Connected NPC Converter. IEEE Open Journal of the Industrial Electronics Society, 2022, 3, 448-459.	6.8	7
283	Application of speed and load torque observers in high speed train. , 2008, , .		6
284	Speed sensorless AC drive with inverter output filter and fault detection using load torque signal. , 2010, , .		6
285	A simple modulation scheme for a regenerative Cascaded Matrix Converter. , 2011, , .		6
286	Shaft misalignment detection using ANFIS for speed sensorless AC drive with inverter output filter. , 2011, , .		6
287	Performance analysis of a five phase induction motor under unbalanced voltage supply. , 2013, , .		6
288	Phase-shifted pulse-width-amplitude modulation for quasi-Z-source cascade multilevel inverter based PV power system. , 2013, , .		6

#	Article	IF	Citations
289	An effective control method for quasi-Z-source cascade multilevel three-phase grid-tie photovoltaic power system. , 2014, , .		6
290	Simplified quasiâ€Z source indirect matrix converter. International Journal of Circuit Theory and Applications, 2015, 43, 1775-1793.	2.0	6
291	Control of single-stage AC-AC solid state transformer for power exchange between grids. , 2016, , .		6
292	Optimum number of cascaded multilevel inverters for high-voltage applications based on Pareto analysis. , 2017, , .		6
293	Investigation into the effect of unbalanced supply voltage on detection of stator winding turn fault in PMSM. , 2017, , .		6
294	Dynamic Gains Robust Differentiator Based Fault Detection Approach for Cascaded H-Bridge Multilevel Inverters. , 2018, , .		6
295	Frequency and Voltage Restoration for Droop Controlled AC Microgrids. , 2019, , .		6
296	Faulted Line Identification and Localization in Power System using Machine Learning Techniques. , 2019, , .		6
297	Implementation of Finite Control State Model Predictive Control with Multiple Distributed Generators in AC Microgrids. , 2020, , .		6
298	Enhanced Deadbeat Control Approach for Grid-Tied Multilevel Flying Capacitors Inverter. IEEE Access, 2022, 10, 16720-16728.	4.2	6
299	Advanced Current Regulated PWM Inverter with Simplified Load Model. Electric Power Components and Systems, 2004, 32, 1031-1042.	1.8	5
300	Predictive current control implementation in the sensorless induction motor drive. , 2011, , .		5
301	Detection and discrimination between unbalanced supply and phase loss in PMSM using ANN-based protection scheme. , 2013, , .		5
302	Space vector PWM technique for a direct five-to-three-phase matrix converter. , 2013, , .		5
303	Multiphase Z-source inverter using maximum constant boost control. Archives of Control Sciences, 2013, 23, 107-126.	1.7	5
304	Cascaded predictive speed control. , 2014, , .		5
305	Comprehensive modeling of single-phase quasi-Z-source photovoltaic inverter to investigate low-frequency voltage and current ripples. , 2014, , .		5
306	Open and closed-loop motor control system with incipient broken rotor bar fault detection using current signature. , 2014, , .		5

#	Article	IF	Citations
307	An energy stored quasi-Z source cascaded multilevel inverter based photovoltaic power generation system. , 2014, , .		5
308	Five-phase induction motor drive with sine-wave filter. , 2014, , .		5
309	State-of-charge balancing control for battery energy stored quasi-Z source cascaded multilevel inverter based photovoltaic power system. , 2015, , .		5
310	Comparison of SiC and GaN devices for front-end isolation of quasi-Z-source cascaded multilevel photovoltaic inverter. , 2016, , .		5
311	An effective fault detection technique for a quasi-Z-Source based grid-tied PV system. , 2016, , .		5
312	A Novel High Gain Configurations of Modified SEPIC Converter for Renewable Energy Applications. , 2019, , .		5
313	Model Predictive Control Based Dual-Mode Controller for Multi-Source DC Microgrid. , 2019, , .		5
314	Differential and Common Mode Active Resonance Damping Control for Shunt-less LCL Filter Based Grid-Connected PV Inverters. , 2019, , .		5
315	On Stability of Hybrid Power Ramp Rate Control for High Photovoltaic Penetrated Grid. , 2020, , .		5
316	Distributed Computing for Smart Meter Data Management for Electrical Utility Applications. , 2020, , .		5
317	Virtual Inertia Emulation Inspired Predictive Control to Improve Frequency Stability in Power Electronics Dominated Grid. , 2021, , .		5
318	Model Predictive Control for Black Start of Connected Communities via Autonomous Indexing. , 2021, , .		5
319	A simplified sliding-mode control method for multi-level transformerless DVR. IET Power Electronics, 2022, 15, 764-774.	2.1	5
320	Design and Dynamic Assessment of Model Predictive Control for Grid-Forming Inverters in AC Microgrid. , 2022, , .		5
321	Coordinated Power Reserve Control of PV Sources For Frequency Restoration in Power Electronics Dominated Grid. , 2022, , .		5
322	Predictive Voltage and Frequency Restoration for Decentralized FCS-MPC based Droop Controlled DGs in AC Microgrids. , 2022, , .		5
323	Artificial Neural Networks and fuzzy logic based control of AC motors. , 2009, , .		4
324	Speed sensorless asynchronous motor drive with inverter output LC filter. , 2010, , .		4

#	Article	IF	Citations
325	Observer-based sensorless speed control of PM-assisted SynRM for direct drive applications. , 2010, , .		4
326	Incipient bearing fault detection for three-phase Brushless DC motor drive using ANFIS. , 2011, , .		4
327	Simple observer for induction motor speed sensorless control. , 2011, , .		4
328	Carrier based PWM technique for a three-to-six phase matrix converter for supplying six-phase two-motor drives. , 2011, , .		4
329	An improved MPPT method for quasi-Z-source inverter based grid-connected photovoltaic power system. , 2012, , .		4
330	Dual-mode controller for MPPT in single-stage grid-connected photovoltaic inverters. , 2013, , .		4
331	Dual five-phase power supply system using a three to ten-phase transformer connection. , 2013, , .		4
332	Space vector modeling of an eleven-phase voltage source inverter. , 2013, , .		4
333	Generalized carrier based pulse width modulation technique for a three to n-phase dual matrix converter. , 2014, , .		4
334	Partial resonant ac-link converters &#x2014; A review. , 2014, , .		4
335	Modelling and implementation of SVPWM technique for a thirteen-phase voltage source inverter-sinusoidal output waveform. , 2014, , .		4
336	Modelling and implementation of SVPWM technique for a fifteen-phase voltage source inverter for sinusoidal output waveform. , 2015, , .		4
337	Finite control set model predictive control for grid-tied quasi-Z-source based multilevel inverter. , 2016, , .		4
338	Model predictive control for maximum power point tracking of quasi-Z-source inverter based grid-tied photovoltaic power system. , 2017, , .		4
339	Transient stability impact of large-scale photovoltaic system on electric power grids. , 2017, , .		4
340	Lyapunov-function-based control method for three-phase grid-tied quasi-Z-source inverter with LCL filter. , 2017, , .		4
341	Transient analysis and simulation of a grid-integrated large-scale photovoltaic (PV) energy system. QScience Connect, 2018, 2017, .	0.3	4
342	Open-Circuit Fault Diagnosis and Fault- Tolerant Model Predictive Control of SubMultilevel Inverter. , 2018, , .		4

#	Article	IF	Citations
343	Partial Discharge Modeling of Internal Discharge in Electrical Machine Stator Winding. , 2020, , .		4
344	A Power Ripple Compensator for DC Nanogrids via a Solid-State Converter. IEEE Open Journal of the Industrial Electronics Society, 2020, 1, 311-325.	6.8	4
345	A Robust Second-Order Sliding Mode Control of Sensorless Five Level Packed U Cell Inverter. , 2020, , .		4
346	Grid Interactive Smart Inverter with Intrusion Detection Capability. , 2021, , .		4
347	E ^{K} Î¸ multilevel inverter â€" a minimal switch novel configuration for higher number of output voltage levels. IET Power Electronics, 2020, 13, 2804-2815.	2.1	4
348	PD Signal Attenuation in 550-kV GIS: Impact of Different Barriers on the Propagation of Electromagnetic Waves. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13.	4.7	4
349	Artificial Intelligence Sensorless Control of Induction Motor. , 2007, , .		3
350	Rotor Oriented Nonlinear Controlsystem of Induction Motors Operatingat Field Weakening. , 2007, , .		3
351	Quasi-Z-source matrix converter based induction motor drives. , 2012, , .		3
352	Grid connected quasi-Z-Source direct matrix converter. , 2013, , .		3
353	“A new remedial strategy for permanent magnet synchronous motor based on artificial neural network”. , 2013, , .		3
354	Performance comparison of two sensorless control methods for standalone doubly-fed induction generator. , 2014, , .		3
355	Space vector control of dual matrix converters based five-phase open-end winding drive. , 2014, , .		3
356	Post fault operation of a dual matrix converter fed open-end load. , 2015, , .		3
357	Hybrid pulsewidth modulated single-phase quasi-Z-source grid-tie Photovoltaic power system. , 2015, , .		3
358	Direct instantaneous ripple power predictive control for active ripple decoupling of single-phase inverter. , 2016, , .		3
359	Performance enhancement of cascaded qZS-HB based renewable energy system using Model Predictive Control. International Journal of Hydrogen Energy, 2017, 42, 17917-17927.	7.1	3
360	Optimizing control strategy of quasi-Z source indirect matrix converter for induction motor drives. , 2017, , .		3

#	Article	IF	Citations
361	Direct decoupled active and reactive predictive power control of grid-tied quasi-Z-source inverter for photovoltaic applications. , 2017, , .		3
362	Design of SiC-based single-phase quasi-Z-source inverter. , 2018, , .		3
363	Fault tolerant single€phase capacitor start capacitor run induction motor powered with cascaded multilevel quasi impedance source inverter. Journal of Engineering, 2019, 2019, 4036-4040.	1.1	3
364	A Novel DC Link Energy Shaping Process for Minimizing the Transient Frequency Variations in Microgrids. , 2019, , .		3
365	Model Predictive Control for a PUC5 based Dual Output Active Rectifier. , 2019, , .		3
366	A Novel Methodology to Determine the Maximum PV Penetration in Distribution Networks. , 2019, , .		3
367	A Simple Sliding Mode Controller for PUC7 Grid-Connected Inverter Using A look-up Table. , 2019, , .		3
368	Selective Harmonic Elimination PWM For a Cascaded Multi-level Inverter. , 2020, , .		3
369	Problems of Exact Generation of Inverter Output Voltage. Electric Power Components and Systems, 2002, 30, 1261-1277.	1.8	2
370	Digital Implementation of a Novel Controlled Rectifier Synchronization Method. Electric Power Components and Systems, 2005, 33, 1123-1135.	1.8	2
371	Induction Motor Multiscalar Model Based Sensorless Control Using Power Measurement. , 2007, , .		2
372	Vector control of a five-phase induction machine using synchronous current controller and ANN based space vector PWM. , 2010, , .		2
373	Estimation of nonlinear control parameters in induction machine using particle filtering. , 2013, , .		2
374	Carrier-based PWM of voltage fed five-phase qZSI with coupled inductors. , 2013, , .		2
375	Predictive Torque Control of an induction motor fed by five-to-three direct matrix converter. , 2014, , .		2
376	Single-phase ZVS AC-link inverter for PV-grid connection at MPPT operation. , 2014, , .		2
377	ANN-based System for a Discrimination Between Unbalanced Supply Voltage and Phase Loss in Induction Motors. , 2014, , .		2
378	Dual matrix converters based seven-phase open-end winding drive. , 2014, , .		2

#	Article	IF	Citations
379	Model predictive control of a direct three-to-seven phase matrix converter. , 2014, , .		2
380	Single-phase ZVS bidirectional AC-link converter for EV batteries-grid integration. , 2014, , .		2
381	Model-Free Controller Tuning Based on DFT Processing: Application to Induction Motor Drives. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2014, 2, 1013-1023.	5.4	2
382	An autonomous frequency and voltage controller for standalone doubly fed induction generator. , 2015, , .		2
383	Residential load management system for future smart energy environment in GCC countries. , 2015, , .		2
384	Smart Energy Management and Power Flow Control for Multi-Microgrids Interfacing with Utility Grid. , 2016, , .		2
385	Enhanced low‐voltage ride‐through capability of flying capacitors inverter using model predictive control. International Transactions on Electrical Energy Systems, 2017, 27, e2430.	1.9	2
386	Smart and energy efficient air-conditioning system. , 2017, , .		2
387	A Lyapunov Stability Theorem Based Control Strategy for Single-Phase Neutral-Paint-Clamped Quasi - Impedance Source Inverter with LCL Filter. , 2018, , .		2
388	Active Power Decoupling Control Scheme for Distorted Grids. , 2019, , .		2
389	Partial Discharge Signal Propagation in T-Structured GIS. , 2019, , .		2
390	Capacitor Voltage Ripple Reduction of Hybrid Balanced Two-Leg Five-Level Neutral Point Clamped Inverter. , 2020, , .		2
391	Interactive PV-Shunt Active Power Filter based on Impedance Source Inverter Controlled by SRF-MVF. , 2021, , .		2
392	Carrier-based pulse width modulation technique for a three-to-five phase matrix converter for supplying five-phase two-motor drives. International Journal of Engineering, Science and Technology, 2011, 2, .	0.6	2
393	Real-Time Digital Simulation for Sensorless Control Scheme based on Reduced-Order Sliding Mode Observer for Dual Star Induction Motor. , 2020, , .		2
394	Incipient Stator Winding Turn Faults Detection in Induction Motor. , 2021, , .		2
395	INDUCTION MOTOR DRIVE SYSTEM WITH ADAPTIVE FUZZY LOGIC CONTROLLER. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 97-102.	0.4	1
396	Analysis of a field oriented controlled five-phase motor drive with active front end converter. , 2012, , .		1

#	Article	IF	Citations
397	Non-Linear Control of Electrical Machines Using Non-Linear Feedback. , 2012, , 255-291.		1
398	A simple modulation scheme for a three-phase direct matrix converter. , 2012, , .		1
399	Comparison study between a simple sensorless method and adaptive observer for DTC-SVM five-phase induction motor drive. , 2012, , .		1
400	States and parameters estimation in induction motor using Bayesian techniques. , 2013, , .		1
401	Matlab/Simulink based bi-directional partial resonant AC link converter. , 2013, , .		1
402	Investigation of space vector modulated dual matrix converters feeding a seven phase open-end winding drive. , 2014, , .		1
403	A novel power control strategy for wind-driven permanent magnet synchronous generator based on a single leg multi-mode power converter. , 2015, , .		1
404	A novel smart energy management system in sports stadiums. , 2016, , .		1
405	Predictive torque control and linear control with SV-PWM for electric drives with NPC inverters: An experimental comparison. , 2017, , .		1
406	Model predictive control based current ripple damping in single-phase quasi-impedance-source inverter. , 2017, , .		1
407	Predictive control with uniform switching transitions and reduced calculation requirements. , 2017, , .		1
408	Hardware in the Loop Simulation of a Nano-Grid Transactive Energy Exchange. , 2019, , .		1
409	Non Linear and Non Gaussian States and Parameters Estimation using Bayesian Methods-Comparatives Studies. Advances in Computational Intelligence and Robotics Book Series, 2014, , 711-748.	0.4	1
410	Vector control of a five-phase induction motor supplied by a non-square 3Ã—5 phase matrix converter. Australian Journal of Electrical and Electronics Engineering, 2013, 10, .	1.2	1
411	Direct duty ratio based pulse-width modulation technique for a three-to-five phase matrix converter for supplying five-phase two-motor drives. Australian Journal of Electrical and Electronics Engineering, 2012, 9, .	1.2	1
412	Simple Voltage Modulation Technique for Quasi Six-Phase Series Connected Two-Motor Drive System. , 2010, , .		1
413	Carrier Based Pulse Width Modulation Control of a Non-Square Direct Matrix Converter with Seven-phase Input and Three-phase Output. International Journal of Power Electronics and Drive Systems, 2013, 3, .	0.6	1
414	Model Predictive Control for Full Bridge Boost Rectifier with Constant Switching Frequency. , 2021, , .		1

#	Article	IF	Citations
415	Impact of Dimensionality Reduction Techniques on the Classification of Ceramic Insulators Defects. , 2021, , .		1
416	Electrical Tree Growth Behavior Under AC and DC High Voltage in Power Cables. , 2021, , .		1
417	Analysis of space vector modulations for three-phase Z-Source / quasi-Z-source inverter. , 2012, , .		0
418	A novel multiphase multilevel inverter topology for high power AC drives with open-end stator windings. Qatar Foundation Annual Research Forum Proceedings, 2012, , .	0.0	0
419	Development of a new three-to-five phase bi-directional partial resonant AC Link converter. , 2013, , .		0
420	Message from the SGRE 2015 workshop chair. , 2015, , .		0
421	Editorial Special Issue on Impedance-Source Converter Topologies and Applications. IEEE Transactions on Power Electronics, 2016, 31, 7417-7418.	7.9	0
422	Transient analysis and simulation of large-scale photovoltaic (PV) energy system integration into the distribution grid. Qscience Proceedings, 2016, 2016, 29.	0.0	0
423	Flexible Integration of EVs and PVs into the Electricity Grid. , 2016, , .		0
424	Control of grid connected H-bridge quasi-Z source converter with compensation of current distortion at minimized passive components. , 2018, , .		0
425	A Noval Self Healing Control System for Next Generation Electric Grid with Big Data Platform. , 2018, , .		0
426	Virtual Flux Oriented Sensorless Direct Power Control of QZS Inverter Connected to Grid for Solar PV Applications. , 2019, , .		0
427	Enhanced Machine Learning Approaches for Diagnosing Building Systems. , 2019, , .		0
428	A Computational Model for Pre-breakdown in Gas Insulated Switchgear. , 2019, , .		0
429	Power Industrial Electronics and Informatics for Humans [Students and Young Professionals News]. IEEE Industrial Electronics Magazine, 2020, 14, 83-95.	2.6	0
430	Decoupled Active and Reactive Power Control without PLL Requirement for Differential Buck Converter. , 2020, , .		0
431	Sensorless Sliding Mode Control of Open-End Dual-Stator Induction Motor using Extended Kalman Filter. , 2021, , .		0
432	An Effective Sliding Mode PWM Control for The PUC5 Inverter. , 2021, , .		0

#	Article	IF	Citations
433	Simple carrier-based pulse-width modulation technique for a three-to-quasi-six-phase matrix converter. Australian Journal of Electrical and Electronics Engineering, 2012, 9, .	1.2	0
434	Status of worldwide renewable energy installation and guidelines for the connection of PV systems to the power grid. , 2013, , .		0
435	Residential Load Management System For Future Smart Energy Environment. , 2014, , .		0
436	Energy Storage As An Enabling Technology For The Smart Grid. , 2014, , .		0
437	New Fault-Tolerant Control Approach for a Reconfigurable Grid-Connected PV System. , 2016, , .		0
438	MRAS-Based Sensorless Control Scheme for Open- End Stator Winding Six-Phase Induction Motor with Fuzzy Logic Speed Controller: Real-Time Simulation. , 2021, , .		0
439	Locational Marginal Electricity Price Forecasting-Based Self-Attention Mechanism and Simulated Annealing Optimizer using Big Data. , 2021, , .		0
440	A Computational Model for Aging Dependability in Polymeric Cable Insulation. , 2021, , .		0
441	Partial Discharge Signal Propagation in Three-Phase Gas-Insulated Switchgear: CIGRE Recommendations-Based Analysis. , 2020, , .		0
442	An Effective Super-Twisting Control of a Standalone PUC5 Inverter. , 2020, , .		0
443	Investigation on Optimizing Cost Function to Penalize Underestimation of Load Demand through Deep Learning Modeling. , 2021, , .		0
444	The Impact of Thermal Stresses on Volume Resistivity: Performance Comparison between TR-XLPE and XLPE Cables. , 2021, , .		0
445	Modeling and Evaluation of Electric Treeing Phenomena in Polymeric Cable Insulation. , 2021, , .		0
446	A Coplanar Waveguide Based Antenna for Partial Discharge Detection in Gas-insulated Switchgear. , 2022, , .		0