

Marco Liserre

List of Publications by Year in descending order

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488
papers

23,193
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17440

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12272

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507
all docs

507
docs citations

507
times ranked

10406
citing authors

#	ARTICLE	IF	CITATIONS
1	Unlocking the Hidden Capacity of the Electrical Grid Through Smart Transformer and Smart Transmission. Proceedings of the IEEE, 2023, 111, 421-437.	21.3	14
2	An Isolated SRC-Based Single Phase Single Stage Battery Charger for Electric Vehicles. IEEE Transactions on Transportation Electrification, 2023, 9, 1252-1262.	7.8	5
3	Capacitor Lifetime Extension of Interleaved DC-DC Converters for Multistring PV Systems. IEEE Transactions on Industrial Electronics, 2023, 70, 4854-4864.	7.9	6
4	Reviewing Thermal-Monitoring Techniques for Smart Power Modules. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 1326-1341.	5.4	32
5	An MVDC-Based Meshed Hybrid Microgrid Enabled Using Smart Transformers. IEEE Transactions on Industrial Electronics, 2022, 69, 3722-3731.	7.9	16
6	Applications and Modulation Methods for Modular Converters Enabling Unequal Cell Power Sharing: Carrier Variable-Angle Phase-Displacement Modulation Methods. IEEE Industrial Electronics Magazine, 2022, 16, 19-30.	2.6	28
7	Predictive Control of Grid-Connected Modified-CHB With Reserve Batteries in Photovoltaic Application Under Asymmetric Operating Condition. IEEE Transactions on Industrial Electronics, 2022, 69, 9019-9028.	7.9	22
8	Harmonic Power-Flow Study of Polyphase Grids With Converter-Interfaced Distributed Energy Resources—Part II: Model Library and Validation. IEEE Transactions on Smart Grid, 2022, 13, 470-481.	9.0	3
9	Modulation Strategies for Thermal Stress Control of CHB Inverters. IEEE Transactions on Power Electronics, 2022, 37, 3515-3527.	7.9	10
10	Soft-Unbalance Operation for Power Routing in Multiphase Drives. IEEE Transactions on Industry Applications, 2022, 58, 435-443.	4.9	1
11	Harmonic Power-Flow Study of Polyphase Grids With Converter-Interfaced Distributed Energy Resources—Part I: Modeling Framework and Algorithm. IEEE Transactions on Smart Grid, 2022, 13, 458-469.	9.0	12
12	Flexible Active Power Control of Distributed Photovoltaic Systems With Integrated Battery Using Series Converter Configurations. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 6891-6909.	5.4	7
13	Nonlinear Modular State-Space Modeling of Power-Electronics-Based Power Systems. IEEE Transactions on Power Electronics, 2022, 37, 6102-6115.	7.9	15
14	Voltage-Fed Isolated Matrix-Type AC/DC Converter for Wind Energy Conversion System. IEEE Transactions on Industrial Electronics, 2022, 69, 13056-13068.	7.9	11
15	A General and Automatic RMS Current Oriented Optimal Design Tool for LLC Resonant Converters. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 7318-7332.	5.4	8
16	Efficiency Optimization Scheme for Isolated Triple Active Bridge DC-DC Converter With Full Soft-Switching and Minimized RMS Current. IEEE Transactions on Power Electronics, 2022, 37, 9114-9128.	7.9	27
17	Analysis, Limitations, and Opportunities of Modular Multilevel Converter-Based Architectures in Fast Charging Stations Infrastructures. IEEE Transactions on Power Electronics, 2022, 37, 10747-10760.	7.9	22
18	RMS Current based Automated Optimal Design Tool for LLC Resonant Converters. , 2022, , .		3

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19	Multiport Resonant DC-DC Converter using Actively-Controlled Inductors for Hybrid Energy Storage System Integration. , 2022, , .		4
20	Space Vector Modulation Technique for Reducing Harmonics in Current with Zero Common-Mode Voltage for Two-Parallel Three-Level Converters. , 2022, , .		0
21	Modeling and Control of a Two-Bus System With Grid-Forming and Grid-Following Converters. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 7133-7149.	5.4	17
22	Decoupling Analysis and Modeling for Three-port Resonant Converter. , 2022, , .		0
23	Primary Frequency Regulation Using HVDC Terminals Controlling Voltage Dependent Loads. IEEE Transactions on Power Delivery, 2021, 36, 710-720.	4.3	15
24	Neutral Current Optimization Control for Smart Transformer-Fed Distribution System Under Unbalanced Loads. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 1696-1707.	5.4	11
25	Smart Transformer-Enabled Meshed Hybrid Distribution Grid. IEEE Transactions on Industrial Electronics, 2021, 68, 282-292.	7.9	52
26	Crossing Thyristor Branches-Based Hybrid Modular Multilevel Converters for DC Line Faults. IEEE Transactions on Industrial Electronics, 2021, 68, 9719-9730.	7.9	37
27	A Reduced Power Switches Count Multilevel Converter-Based Photovoltaic System With Integrated Energy Storage. IEEE Transactions on Industrial Electronics, 2021, 68, 8231-8240.	7.9	14
28	Extended Operation Range of Photovoltaic Inverters by Current Waveform Shaping. IEEE Transactions on Power Electronics, 2021, 36, 1693-1707.	7.9	0
29	Impact of smart transformer voltage and frequency support in a high renewable penetration system. Electric Power Systems Research, 2021, 190, 106836.	3.6	21
30	Switch Open-Circuit Fault Localization Strategy for MMCs Using Sliding-Time Window Based Features Extraction Algorithm. IEEE Transactions on Industrial Electronics, 2021, 68, 10193-10206.	7.9	27
31	Discontinuous-PWM Method for Multilevel N -Cell Cascaded H-Bridge Converters. IEEE Transactions on Industrial Electronics, 2021, 68, 7996-8005.	7.9	14
32	Research on Active Thermal Control: Actual Status and Future Trends. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 6494-6506.	5.4	28
33	FS-MPC Based Thermal Stress Balancing and Reliability Analysis for NPC Converters. IEEE Open Journal of Power Electronics, 2021, 2, 124-137.	5.7	19
34	DC-Link Voltage Balancing Modulation for Cascaded H-Bridge Converters. IEEE Access, 2021, 9, 103524-103532.	4.2	7
35	Common-Mode Voltage Mitigation of Dual Three-Phase Voltage Source Inverters in a Motor Drive Application. IEEE Access, 2021, 9, 67477-67487.	4.2	16
36	Common-Mode Voltage Mitigation Technique in Motor Drive Applications by Applying a Sampling-Time Adaptive Multi-Carrier PWM Method. IEEE Access, 2021, 9, 56115-56126.	4.2	10

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37	Flexible Control Structure of a Smart Transformer for Universal Operation. , 2021, , .		0
38	Operation and Control of the Smart Transformer in Meshed and Hybrid Grids: Choosing the Appropriate Smart Transformer Control and Operation Scheme. IEEE Industrial Electronics Magazine, 2021, 15, 43-57.	2.6	21
39	Common-Mode Voltage Harmonic Reduction in Variable Speed Drives Applying a Variable-Angle Carrier Phase-Displacement PWM Method. Energies, 2021, 14, 2929.	3.1	0
40	Grid-Forming Control of Smart Solid-State Transformer in Meshed Network. , 2021, , .		3
41	Multiwinding-Transformer-Based dc-dc Converter Solutions for Charging Stations [Technology Leaders]. IEEE Electrification Magazine, 2021, 9, 5-9.	1.8	6
42	Evaluation of carrier-based control strategies for balancing the thermal stress of a hybrid SiC ANPC converter. , 2021, , .		8
43	Reliability of Silicon Battery Technology and Power Electronics Based Energy Conversion. IEEE Power Electronics Magazine, 2021, 8, 60-69.	0.7	3
44	Synchronization of Low Voltage Grids Fed by Smart and Conventional Transformers. IEEE Transactions on Smart Grid, 2021, 12, 2941-2951.	9.0	6
45	Multiwinding Transformer Leakage Inductance Optimization for Power Flow Decoupling in Multiport DC-DC Converters. , 2021, , .		7
46	Passive Clamping Circuit for Reduced Switch Count in Solid State Circuit Breakers. , 2021, , .		0
47	Interactions Between Two Phase-Locked Loop Synchronized Grid Converters. IEEE Transactions on Industry Applications, 2021, 57, 3935-3947.	4.9	16
48	Analysis and Suppression of Zero-Sequence Circulating Current in Multi-Parallel Converters. , 2021, , .		3
49	Selective Soft-Switching for Thermal Balancing in IGBT-Based Multichip Systems. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 3982-3991.	5.4	5
50	Voltage-Dependent Load-Leveling Approach by Means of Electric Vehicle Fast Charging Stations. IEEE Transactions on Transportation Electrification, 2021, 7, 1099-1111.	7.8	7
51	Modulation for Cascaded Multilevel Converters in PV Applications With High Input Power Imbalance. IEEE Transactions on Power Electronics, 2021, 36, 10866-10878.	7.9	19
52	On The Implementation of an FRT Strategy for Grid-Forming Converters Under Symmetrical and Asymmetrical Grid Faults. IEEE Transactions on Industry Applications, 2021, 57, 4385-4397.	4.9	37
53	A Comprehensive Assessment of Multiwinding Transformer-Based DC-DC Converters. IEEE Transactions on Power Electronics, 2021, 36, 10020-10036.	7.9	40
54	Reduction of the Circulating Current Among Parallel NPC Inverters. IEEE Transactions on Power Electronics, 2021, 36, 12504-12514.	7.9	24

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55	The Role of Renewable Energy System in Reshaping the Electrical Grid Scenario. IEEE Open Journal of the Industrial Electronics Society, 2021, 2, 451-468.	6.8	21
56	Grid-Forming Converters: Control Approaches, Grid-Synchronization, and Future Trends—A Review. IEEE Open Journal of Industry Applications, 2021, 2, 93-109.	6.5	345
57	Channel Coding and Receiver Design for Simultaneous Wireline Information and Power Transfer. IEEE Open Journal of Power Electronics, 2021, 2, 545-558.	5.7	8
58	Impact of Optimal Control of Distributed Generation Converters in Smart Transformer Based Meshed Hybrid Distribution Network. IEEE Access, 2021, 9, 140268-140280.	4.2	8
59	Two-Stage Modulation Study for DAB Converter. Electronics (Switzerland), 2021, 10, 2561.	3.1	1
60	Potentials and Challenges of Multiwinding Transformer-Based DC-DC Converters for Solid-State Transformer. , 2021, , .		3
61	Enhanced Current-Type P-HIL Interface Algorithm for Smart Transformers Testing. , 2021, , .		6
62	On the Analysis of Quasi-Discontinuous Modulations for Dual-Active-Bridge. , 2021, , .		0
63	Performance Evaluation of the Multi-winding Redundancy Approach in MTB DC-DC Converters. , 2021, , .		1
64	Quasi-Reference PWM for 3-level Voltage Source Inverters. , 2021, , .		2
65	Iron Losses Impact on High-Speed Drives. , 2021, , .		1
66	Impact of Partial Power Processing Dual-Active Bridge Converter on Li-ion Battery Storage Systems. , 2021, , .		0
67	Zero-sequence Circulating Current Suppression with Stand-alone Feedforward Control for Power Hardware-in-the-Loop System. , 2021, , .		2
68	Design Oriented Analysis of Control Loops Interaction in Power Synchronization-based Voltage Source Converter. , 2021, , .		2
69	Analysis of Overmodulation in Power Synchronization-based Voltage Source Converters. , 2021, , .		1
70	Primary Frequency Regulation using HVDC terminals controlling Voltage Dependent Loads. , 2021, , .		1
71	AC/DC Converter based on Dual Active Bridge with Reactive Power Management. , 2021, , .		0
72	Stability Enhancement for Single-Loop Voltage Controlled Voltage-Source Converters with LC-Filter. , 2021, , .		0

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73	Impact of Grid Forming Power Converters on the Provision of Grid Services through VSC-HVdc Systems. , 2021, , .		1
74	Mission-Profile Based Design of a Hybrid-Grids Feeding Smart Transformer. , 2021, , .		3
75	Architecture and Topology Overview of Modular Smart Solid-State Transformer. , 2021, , .		0
76	Analysis of Voltage Control Strategies for Wind Farms. IEEE Transactions on Sustainable Energy, 2020, 11, 1002-1012.	8.8	30
77	Sampling-Time Harmonic Control for Cascaded H-Bridge Converters With Thermal Control. IEEE Transactions on Industrial Electronics, 2020, 67, 2776-2785.	7.9	19
78	Thermally Compensated Discontinuous Modulation for MVAC/LVDC Building Blocks of Modular Smart Transformers. IEEE Transactions on Power Electronics, 2020, 35, 220-231.	7.9	16
79	Fault Localization Strategy for Modular Multilevel Converters Under Submodule Lower Switch Open-Circuit Fault. IEEE Transactions on Power Electronics, 2020, 35, 5190-5204.	7.9	46
80	Design Consideration of a Dual-Functional Bridge-Type Fault Current Limiter. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 3825-3834.	5.4	16
81	Advanced Discontinuous Modulation for Thermally Compensated Modular Smart Transformers. IEEE Transactions on Power Electronics, 2020, 35, 2445-2457.	7.9	16
82	Thermal Stress Based Power Routing of Smart Transformer With CHB and DAB Converters. IEEE Transactions on Power Electronics, 2020, 35, 4205-4215.	7.9	25
83	DC Fault Current Blocking With the Coordination of Half-Bridge MMC and the Hybrid DC Breaker. IEEE Transactions on Industrial Electronics, 2020, 67, 5503-5514.	7.9	27
84	Microgrid Stability Definitions, Analysis, and Examples. IEEE Transactions on Power Systems, 2020, 35, 13-29.	6.5	422
85	A Thermal Modeling Method Considering Ambient Temperature Dynamics. IEEE Transactions on Power Electronics, 2020, 35, 6-9.	7.9	23
86	Modeling of the Phase Detector of a Synchronous-Reference-Frame Phase-Locked Loop Based on Second-Order Approximation. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 2534-2545.	5.4	17
87	Control of Smart Transformer Under Single-Phase to Ground Fault Condition. IEEE Transactions on Power Electronics, 2020, 35, 2034-2043.	7.9	8
88	Modeling Phase-Locked Loop-Based Synchronization in Grid-Interfaced Converters. IEEE Transactions on Energy Conversion, 2020, 35, 394-404.	5.2	43
89	Peak Current Control and Feed-Forward Compensation of a DAB Converter. IEEE Transactions on Industrial Electronics, 2020, 67, 8381-8391.	7.9	27
90	Graph-Theory-Based Modeling and Control for System-Level Optimization of Smart Transformers. IEEE Transactions on Industrial Electronics, 2020, 67, 8910-8920.	7.9	11

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91	Robust Stability Investigation of the Interactions Among Grid-Forming and Grid-Following Converters. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 991-1003.	5.4	52
92	Finite Control Set Model Predictive Control for LCL-Filtered Grid-Tied Inverter With Minimum Sensors. IEEE Transactions on Industrial Electronics, 2020, 67, 9980-9990.	7.9	76
93	Asymmetrical Bidirectional DC-DC Converter With Limited Reverse Power Rating in Smart Transformer. IEEE Transactions on Power Electronics, 2020, 35, 6895-6905.	7.9	13
94	Output Impedance Modeling and High-Frequency Impedance Shaping Method for Distributed Bidirectional DC-DC Converters in DC Microgrids. IEEE Transactions on Power Electronics, 2020, 35, 7001-7014.	7.9	18
95	Protection and Management of Internal Faults in Modular Smart Transformer. , 2020, , .		4
96	Multiwinding based Semi-Dual Active Bridge Converter. , 2020, , .		6
97	Modular Hybrid DC Breaker-based Adaptive Auto-Reclosing Method for MMC-HVDC Systems. , 2020, , .		6
98	Investigation of Modular Multilevel Converters for E-STATCOM Applications. , 2020, , .		2
99	Pulse-Shadowing Based Thermal Balancing in Multichip Modules. IEEE Transactions on Industry Applications, 2020, , 1-1.	4.9	7
100	Generalized Harmonic Control for CHB Converters With Unbalanced Cells Operation. IEEE Transactions on Industrial Electronics, 2020, 67, 9039-9047.	7.9	29
101	Enhanced grid frequency support by means of HVDC-based load control. Electric Power Systems Research, 2020, 189, 106552.	3.6	6
102	Fundamentals of power systems modelling in the presence of converter-interfaced generation. Electric Power Systems Research, 2020, 189, 106811.	3.6	107
103	Power Routing: A New Paradigm for Maintenance Scheduling. IEEE Industrial Electronics Magazine, 2020, 14, 33-45.	2.6	41
104	Stability Assessment of Voltage Control Strategies for Smart Transformer-Fed Distribution Grid. IEEE Access, 2020, 8, 185146-185157.	4.2	4
105	Power Devices Aging Equalization of Interleaved DC-DC Boost Converters via Power Routing. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2020, 1, 91-101.	3.9	10
106	Current Limitation Strategy For Grid-Forming Converters Under Symmetrical And Asymmetrical Grid Faults. , 2020, , .		17
107	Modeling and Stability Analysis of a Smart Transformer-Fed Grid. IEEE Access, 2020, 8, 91876-91885.	4.2	5
108	Hysteresis Model Predictive Current Control for PMSM With LC Filter Considering Different Error Shapes. IEEE Open Journal of Power Electronics, 2020, 1, 190-197.	5.7	14

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109	Cascaded Multilevel PV Inverter With Improved Harmonic Performance During Power Imbalance Between Power Cells. IEEE Transactions on Industry Applications, 2020, 56, 2788-2798.	4.9	25
110	Guest Editorial: Modeling and Simulation Methods for Analysis and Design of Advanced Energy Conversion Systems. IEEE Transactions on Energy Conversion, 2020, 35, 309-311.	5.2	0
111	Optimal Design of Planar Transformer for GaN based Phase-Shifted Full Bridge Converter. , 2020, , .		10
112	Real-Time Simulation-Based Testing of Modern Energy Systems: A Review and Discussion. IEEE Industrial Electronics Magazine, 2020, 14, 28-39.	2.6	42
113	Soft-Start Procedure for a Three-Stage Smart Transformer Based on Dual-Active Bridge and Cascaded H-Bridge Converters. IEEE Transactions on Power Electronics, 2020, 35, 11039-11052.	7.9	38
114	Load-Dependent Active Thermal Control of Grid-Forming Converters. IEEE Transactions on Industry Applications, 2020, 56, 2078-2086.	4.9	4
115	Design of PWM-SMC Controller Using Linearized Model for Grid-Connected Inverter With LCL Filter. IEEE Transactions on Power Electronics, 2020, 35, 12773-12786.	7.9	39
116	μ -constrained μ -pareto optimisation of medium frequency transformers in ISOP μ DAB converters. IET Power Electronics, 2020, 13, 1984-1994.	2.1	5
117	Design Approach of Inductive Components in Medium Voltage Modular Multilevel Converter Considering DC Side Fault Protection Conditions. , 2020, , .		2
118	Isolated DC/DC Multimode Converter with Energy Storage Integration for Charging Stations. , 2020, , .		6
119	Grid-forming converters: an overview of control approaches and future trends. , 2020, , .		42
120	Smart transformer/large flexible transformer. CES Transactions on Electrical Machines and Systems, 2020, 4, 264-274.	3.5	27
121	Smart transformer-based medium voltage grid support by means of active power control. CES Transactions on Electrical Machines and Systems, 2020, 4, 285-294.	3.5	23
122	Optimization of EV-Fast Charging Station Placement for Grid Support. IFAC-PapersOnLine, 2020, 53, 13769-13774.	0.9	1
123	Guest Editorial: Special Section on Modeling, Topology, and Control of Grid-Forming Inverters. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 923-924.	5.4	2
124	Real-Time Primary Frequency Regulation Using Load Power Control by Smart Transformers. , 2020, , .		1
125	Modelling and Performance Evaluation of Smart Transformer in Distribution Grids. , 2020, , .		2
126	Management and Control of Smart Transformer-Fed LV Distribution Networks During Grid Faults. Lecture Notes in Electrical Engineering, 2020, , 267-277.	0.4	2

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127	Operation and Supervision Control in Smart Transformer-based Meshed and Hybrid Grids. , 2020, , .		3
128	Future MVDC Applications Using Modular Multilevel Converter. , 2020, , .		8
129	Positive-Negative Sequence SRF-PLL Model for Accurate Stability Analysis in Grid-Tied Converters. , 2020, , .		5
130	Minimizing Losses Induced by Parasitic Winding Capacitance in Electric Drives by Means of Soft-Switching GaN-Based ARCP. , 2020, , .		4
131	State-feedback-based Low-Frequency Active Damping for VSC Operating in Weak-Grid Conditions. , 2020, , .		6
132	Power Loss Minimization in Smart Transformer Based Meshed Hybrid Distribution Network. , 2020, , .		7
133	Modular Smart Transformer Topology for the Interconnection of Multiple Isolated AC and DC Grids. , 2020, , .		7
134	Scalable State-Space Model of Voltage Source Converter for Low-Frequency Stability Analysis. , 2020, , .		5
135	Indirect Front-End Smart Transformer with Reactive Power Management. , 2020, , .		2
136	Impedance-based Stability Assessment of Self-Synchronising Power Electronics Converter. , 2020, , .		2
137	Phase Angle Compensation-based Highly Accurate Self-Synchronising Inverter. , 2020, , .		1
138	Grid Identification and Adaptive Voltage Control in a Smart Transformer-Fed Grid. IEEE Transactions on Power Electronics, 2019, 34, 2327-2338.	7.9	25
139	A New Voltage Balancing Technique for a Three-Stage Modular Smart Transformer Interfacing a DC Multibus. IEEE Transactions on Power Electronics, 2019, 34, 2829-2840.	7.9	35
140	Robust Stability Analysis of LCL Filter Based Synchronverter Under Different Grid Conditions. IEEE Transactions on Power Electronics, 2019, 34, 5842-5853.	7.9	55
141	Load Control for the DC Electrical Power Distribution System of the More Electric Aircraft. IEEE Transactions on Power Electronics, 2019, 34, 3937-3947.	7.9	39
142	Dahlin-Based Fast and Robust Current Control of a PMSM in Case of Low Carrier Ratio. IEEE Access, 2019, 7, 102199-102208.	4.2	17
143	Solid State Transformer with Integrated Input Stage. , 2019, , .		1
144	Enhanced Current Capability for Modular Multilevel Converters by a Combined Sorting Algorithm for Capacitor Voltages and Semiconductor Losses. , 2019, , .		3

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145	Which Deepness Class Is Suited for Modeling Power Electronics?: A Guide for Choosing the Right Model for Grid-Integration Studies. IEEE Industrial Electronics Magazine, 2019, 13, 41-55.	2.6	28
146	Operations and Coordination of Dual-Functional DVR and Recloser in a Power Distribution System. IEEE Access, 2019, 7, 140908-140921.	4.2	6
147	Coordination of Dual-functional Dynamic Voltage Restorer and Recloser in Power Distribution System. , 2019, , .		0
148	Smart Transformer-based Frequency Support in Variable Inertia Conditions. , 2019, , .		1
149	Theoretical Evaluation of Semiconductor Loss Components Behavior in ISOP-DAB Converters. , 2019, , .		1
150	Frequency-Domain Electrothermal Impedance Spectroscopy of an Actively Switching Power Semiconductor Converter. IEEE Transactions on Industry Applications, 2019, 55, 6161-6172.	4.9	15
151	Comparison of Finite Control Set and Hysteresis Based Model Predictive Control for NPC and T-Type Converter in case of low carrier ratio. , 2019, , .		1
152	Peak Current Control and Feed-Forward Compensation for the DAB Converter. , 2019, , .		5
153	Smart Transformer requirements for integration in distribution grids and power quality improvement. , 2019, , .		0
154	Assessment of Efficiency and Reliability of Wide Band-Gap Based H8 Inverter in Electric Vehicle Applications. Energies, 2019, 12, 1922.	3.1	17
155	Distributed Online Load Sensitivity Identification by Smart Transformer and Industrial Metering. IEEE Transactions on Industry Applications, 2019, 55, 7328-7337.	4.9	14
156	Transient-Immune GaN Gate Driver and Power Layout. , 2019, , .		0
157	Two-stage Input-Output Feedback linearization controller for AC-AC converter-based SST. , 2019, , .		2
158	Comparative Study of Heatsink Volume and Weight Optimization in SST DAB cells Employing GaN, SiC-MOSFET and Si-IGBT Switches. , 2019, , .		7
159	Volume Optimization in Si IGBT based Dual-Active-Bridge Converters. , 2019, , .		1
160	Analysis of the Interaction Among Power Converters Through Their Synchronization Mechanism. IEEE Transactions on Power Electronics, 2019, 34, 12321-12332.	7.9	39
161	Guest Editorial Joint Special Section on Power Conversion & Control in Photovoltaic Power Plants. IEEE Transactions on Energy Conversion, 2019, 34, 159-160.	5.2	1
162	On-Board Microgrids for the More Electric Aircraft. IEEE Transactions on Industrial Electronics, 2019, 66, 5585-5587.	7.9	10

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163	Robust Stability Analysis of Synchronverters Operating in Parallel. IEEE Transactions on Power Electronics, 2019, 34, 11309-11319.	7.9	72
164	Smart Transformer-Based Single Phase-To-Neutral Fault Management. IEEE Transactions on Power Delivery, 2019, 34, 1049-1059.	4.3	11
165	Fault Tolerance in Multiple-Active Bridge Converters Applied in Smart Transformers. , 2019, , .		0
166	Integration and Optimization of Voltage Active Filtering Functionality in a PV Park. , 2019, , .		1
167	High Performances Voltage Control of Bidirectional-Asymmetrical DC/DC Converter in Smart Transformer for Limited Reverse Power Flow. , 2019, , .		0
168	Online Load Control in Medium Voltage Grid by Means of Reactive Power Modification of Fast Charging Station. , 2019, , .		4
169	Double Active Bridge Operated in Quasi Discontinuous Conduction Mode. , 2019, , .		2
170	High-Efficiency Solid State Transformer Architecture for Large-scale PV Application. , 2019, , .		7
171	Current Harmonic Reduction of DC-Link Capacitor in Dual Motor Drive System. , 2019, , .		0
172	Cascaded Multilevel Topology Based on Quadruple Active Bridges for Phase Power Balancing in Large-scale PV Systems. , 2019, , .		3
173	Frequency support provision by parallel, hybrid HVDC-HVAC system with Voltage-based Load Control. , 2019, , .		2
174	Optimal Design of a Medium-Voltage Grid Analyzer. , 2019, , .		0
175	High-quality Output Voltage of Multilevel Cascaded H-bridge Converters with Large Number of Cells with Unequal DC Voltages. , 2019, , .		3
176	Estimation and Interruption of Short Circuit Currents in HVDC Systems. , 2019, , .		1
177	Mitigation of Disturbances by Means of Smart Transformer-based Storage Systems. , 2019, , .		0
178	Comparison of Modulation Methods to Reduce the Circulating Current in Paralleled NPC-Converters with Common DC-link. , 2019, , .		2
179	Mixed Technology Modular Multilevel Converter Cell - A Cost/Efficiency Analysis. , 2019, , .		3
180	Interactions Between Phase-locked Loop Synchronized Grid Converters With Different Bandwidths and Power Ratings. , 2019, , .		1

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181	High-Frequency Harmonic Current Control of Power Converters. , 2019, , .		4
182	Overload Operation of LV-Side Inverter in Smart Transformer. , 2019, , .		4
183	Discontinuous Modulation of Interleaved Parallel NPC Inverters with Reduced Circulating Current. , 2019, , .		5
184	Hybrid Multiple-Active Bridge for Unequal Power Flow in Smart Transformers. , 2019, , .		2
185	Isolated Multiport Converter as Cost Efficient Solution for DC-Fast Charger of Electric Vehicle. , 2019, , .		4
186	Lifetime Estimation of DC-Link Electrolytic Capacitor for Smart Transformer LV Side Inverter. , 2019, , .		3
187	Power Routing to Enhance the Lifetime of Multiphase Drives. , 2019, , .		5
188	Analysis of the Parallel Operation Between Synchronverters and PLL-Based Converters. , 2019, , .		5
189	FS-MPC Algorithm for Optimized Operation of a Hybrid Active Neutral Point Clamped Converter. , 2019, , .		6
190	Control Strategies for Losses Optimization in Modular Multilevel Converter. , 2019, , .		1
191	Flexibility options identification within Net Zero Energy Factories. , 2019, , .		11
192	Improved Harmonic Performance of Cascaded H-Bridge Converters With Thermal Control. IEEE Transactions on Industrial Electronics, 2019, 66, 4982-4991.	7.9	26
193	Real-Time Primary Frequency Regulation Using Load Power Control by Smart Transformers. IEEE Transactions on Smart Grid, 2019, 10, 5630-5639.	9.0	46
194	Fault Current Estimation in Multi-Terminal HVdc Grids Considering MMC Control. IEEE Transactions on Power Systems, 2019, 34, 2179-2189.	6.5	59
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