

Marco Liserre

List of Publications by Year in descending order

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488
papers

23,193
citations

17440

63
h-index

12272

133
g-index

507
all docs

507
docs citations

507
times ranked

10406
citing authors

#	ARTICLE	IF	CITATIONS
1	Future Energy Systems: Integrating Renewable Energy Sources into the Smart Power Grid Through Industrial Electronics. IEEE Industrial Electronics Magazine, 2010, 4, 18-37.	2.6	817
2	Evaluation of Current Controllers for Distributed Power Generation Systems. IEEE Transactions on Power Electronics, 2009, 24, 654-664.	7.9	787
3	Power Electronics Converters for Wind Turbine Systems. IEEE Transactions on Industry Applications, 2012, 48, 708-719.	4.9	737
4	Overview of Multi-MW Wind Turbines and Wind Parks. IEEE Transactions on Industrial Electronics, 2011, 58, 1081-1095.	7.9	726
5	Transitioning to Physics-of-Failure as a Reliability Driver in Power Electronics. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2014, 2, 97-114.	5.4	681
6	Toward Reliable Power Electronics: Challenges, Design Tools, and Opportunities. IEEE Industrial Electronics Magazine, 2013, 7, 17-26.	2.6	668
7	Analysis of the Passive Damping Losses in LCL-Filter-Based Grid Converters. IEEE Transactions on Power Electronics, 2013, 28, 2642-2646.	7.9	637
8	Filter-Based Active Damping of Voltage Source Converters With LCL Filter. IEEE Transactions on Industrial Electronics, 2011, 58, 3623-3633.	7.9	545
9	Thermal Loading and Lifetime Estimation for Power Device Considering Mission Profiles in Wind Power Converter. IEEE Transactions on Power Electronics, 2015, 30, 590-602.	7.9	447
10	Microgrid Stability Definitions, Analysis, and Examples. IEEE Transactions on Power Systems, 2020, 35, 13-29.	6.5	422
11	Evaluation of Three-Phase Transformerless Photovoltaic Inverter Topologies. IEEE Transactions on Power Electronics, 2009, 24, 2202-2211.	7.9	374
12	A Review of Passive Power Filters for Three-Phase Grid-Connected Voltage-Source Converters. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2016, 4, 54-69.	5.4	361
13	Grid-Filter Design for a Multimegawatt Medium-Voltage Voltage-Source Inverter. IEEE Transactions on Industrial Electronics, 2011, 58, 1205-1217.	7.9	352
14	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
15	The Smart Transformer: Impact on the Electric Grid and Technology Challenges. IEEE Industrial Electronics Magazine, 2016, 10, 46-58.	2.6	322
16	An Active Damper for Stabilizing Power-Electronics-Based AC Systems. IEEE Transactions on Power Electronics, 2014, 29, 3318-3329.	7.9	298
17	Damping Methods for Resonances Caused by LCL-Filter-Based Current-Controlled Grid-Tied Power Inverters: An Overview. IEEE Transactions on Industrial Electronics, 2017, 64, 7402-7413.	7.9	287
18	Voltage Support Provided by a Droop-Controlled Multifunctional Inverter. IEEE Transactions on Industrial Electronics, 2009, 56, 4510-4519.	7.9	279

#	ARTICLE	IF	CITATIONS
19	Control Issues in Single-Stage Photovoltaic Systems: MPPT, Current and Voltage Control. IEEE Transactions on Industrial Informatics, 2012, 8, 241-254.	11.3	266
20	Optimal Design of High-Order Passive-Damped Filters for Grid-Connected Applications. IEEE Transactions on Power Electronics, 2016, 31, 2083-2098.	7.9	240
21	Junction Temperature Control for More Reliable Power Electronics. IEEE Transactions on Power Electronics, 2018, 33, 765-776.	7.9	228
22	The Smart Transformer: A solid-state transformer tailored to provide ancillary services to the distribution grid. IEEE Power Electronics Magazine, 2017, 4, 56-67.	0.7	220
23	<i>LCL-Filter Design for Robust Active Damping in Grid-Connected Converters.</i> IEEE Transactions on Industrial Informatics, 2014, 10, 2192-2203.	11.3	215
24	Systematic Design of the Lead-Lag Network Method for Active Damping in LCL-Filter Based Three Phase Converters. IEEE Transactions on Industrial Informatics, 2014, 10, 43-52.	11.3	210
25	A Single-Phase Voltage-Controlled Grid-Connected Photovoltaic System With Power Quality Conditioner Functionality. IEEE Transactions on Industrial Electronics, 2009, 56, 4436-4444.	7.9	208
26	Online Optimal Reactive Power Control Strategy of PV Inverters. IEEE Transactions on Industrial Electronics, 2011, 58, 4549-4558.	7.9	202
27	A Robust Passive Damping Method for LLCL-Filter-Based Grid-Tied Inverters to Minimize the Effect of Grid Harmonic Voltages. IEEE Transactions on Power Electronics, 2014, 29, 3279-3289.	7.9	201
28	Reliability of Power Electronic Systems: An Industry Perspective. IEEE Industrial Electronics Magazine, 2018, 12, 24-35.	2.6	201
29	Step-by-step design procedure for a grid-connected three-phase PWM voltage source converter. International Journal of Electronics, 2004, 91, 445-460.	1.4	194
30	A Survey of Control Issues in PMSG-Based Small Wind-Turbine Systems. IEEE Transactions on Industrial Informatics, 2013, 9, 1211-1221.	11.3	193
31	Overview of PI-Based Solutions for the Control of DC Buses of a Single-Phase H-Bridge Multilevel Active Rectifier. IEEE Transactions on Industry Applications, 2008, 44, 857-866.	4.9	175
32	Grid Impedance Estimation via Excitation of LCL -Filter Resonance. IEEE Transactions on Industry Applications, 2007, 43, 1401-1407.	4.9	173
33	On-Board Microgrids for the More Electric Aircraft™ Technology Review. IEEE Transactions on Industrial Electronics, 2019, 66, 5588-5599.	7.9	169
34	Improved Reliability of Power Modules: A Review of Online Junction Temperature Measurement Methods. IEEE Industrial Electronics Magazine, 2014, 8, 17-27.	2.6	168
35	A Self-commissioning Notch Filter for Active Damping in a Three-Phase LCL -Filter-Based Grid-Tie Converter. IEEE Transactions on Power Electronics, 2014, 29, 6754-6761.	7.9	166
36	Power Controllability of a Three-Phase Converter With an Unbalanced AC Source. IEEE Transactions on Power Electronics, 2015, 30, 1591-1604.	7.9	149

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37	Frequency-Domain Thermal Modeling and Characterization of Power Semiconductor Devices. IEEE Transactions on Power Electronics, 2016, 31, 7183-7193.	7.9	147
38	Reactive Power Influence on the Thermal Cycling of Multi-MW Wind Power Inverter. IEEE Transactions on Industry Applications, 2013, 49, 922-930.	4.9	146
39	Catastrophic failure and fault-tolerant design of IGBT power electronic converters - an overview. , 2013, , .		145
40	Overview of Anti-Islanding Algorithms for PV Systems. Part I: Passive Methods. , 2006, , .		132
41	Reactive Power Control for Improving Wind Turbine System Behavior Under Grid Faults. IEEE Transactions on Power Electronics, 2009, 24, 1798-1801.	7.9	130
42	Reactive Power Flow Control for PV Inverters Voltage Support in LV Distribution Networks. IEEE Transactions on Smart Grid, 2017, 8, 447-456.	9.0	122
43	IGBT Junction Temperature Measurement via Peak Gate Current. IEEE Transactions on Power Electronics, 2016, 31, 3784-3793.	7.9	115
44	Study of the Effects of Inductor Nonlinear Behavior on the Performance of Current Controllers for Single-Phase PV Grid Converters. IEEE Transactions on Industrial Electronics, 2008, 55, 2043-2052.	7.9	110
45	Improving System Efficiency for the More Electric Aircraft: A Look at dc/dc Converters for the Avionic Onboard dc Microgrid. IEEE Industrial Electronics Magazine, 2017, 11, 26-36.	2.6	107
46	Fundamentals of power systems modelling in the presence of converter-interfaced generation. Electric Power Systems Research, 2020, 189, 106811.	3.6	107
47	A Comparative Analysis of Real-Time Algorithms for Power Signal Decomposition in Multiple Synchronous Reference Frames. IEEE Transactions on Power Electronics, 2007, 22, 1280-1289.	7.9	99
48	Modified Discontinuous PWM for Size Reduction of the Circulating Current Filter in Parallel Interleaved Converters. IEEE Transactions on Power Electronics, 2015, 30, 3457-3470.	7.9	98
49	Power Routing in Modular Smart Transformers: Active Thermal Control Through Uneven Loading of Cells. IEEE Industrial Electronics Magazine, 2016, 10, 43-53.	2.6	94
50	Quad-Active-Bridge DC-DC Converter as Cross-Link for Medium-Voltage Modular Inverters. IEEE Transactions on Industry Applications, 2017, 53, 1243-1253.	4.9	88
51	Thermal Analysis and Balancing for Modular Multilevel Converters in HVDC Applications. IEEE Transactions on Power Electronics, 2018, 33, 1985-1996.	7.9	86
52	A Fault-Tolerant Series-Resonant DC-DC Converter. IEEE Transactions on Power Electronics, 2017, 32, 900-905.	7.9	85
53	A New PWM Strategy for Grid-Connected Half-Bridge Active NPC Converters With Losses Distribution Balancing Mechanism. IEEE Transactions on Power Electronics, 2015, 30, 5331-5340.	7.9	84
54	Performance Evaluation of Active Islanding-Detection Algorithms in Distributed-Generation Photovoltaic Systems: Two Inverters Case. IEEE Transactions on Industrial Electronics, 2011, 58, 1185-1193.	7.9	82

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55	A Quadruple Active Bridge Converter for the Storage Integration on the More Electric Aircraft. IEEE Transactions on Power Electronics, 2018, 33, 8174-8186.	7.9	79
56	Power Routing for Cascaded H-Bridge Converters. IEEE Transactions on Power Electronics, 2017, 32, 9435-9446.	7.9	77
57	Reverse Power Flow Control in a ST-Fed Distribution Grid. IEEE Transactions on Smart Grid, 2018, 9, 3811-3819.	9.0	77
58	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
59	IR Camera Validation of IGBT Junction Temperature Measurement via Peak Gate Current. IEEE Transactions on Power Electronics, 2017, 32, 3099-3111.	7.9	75
60	Load Control Using Sensitivity Identification by Means of Smart Transformer. IEEE Transactions on Smart Grid, 2018, 9, 2606-2615.	9.0	75
61	Control Strategies for Distributed Power Generation Systems Operating on Faulty Grid. , 2006, , .		73
62	Failure Analysis of the dc-dc Converter: A Comprehensive Survey of Faults and Solutions for Improving Reliability. IEEE Power Electronics Magazine, 2018, 5, 42-51.	0.7	72
63	Robust Stability Analysis of Synchronverters Operating in Parallel. IEEE Transactions on Power Electronics, 2019, 34, 11309-11319.	7.9	72
64	Study of reliability-efficiency tradeoff of active thermal control for power electronic systems. Microelectronics Reliability, 2016, 58, 119-125.	1.7	65
65	On-Line Load Sensitivity Identification in LV Distribution Grids. IEEE Transactions on Power Systems, 2017, 32, 1570-1571.	6.5	65
66	PLL Algorithm for Power Generation Systems Robust to Grid Voltage Faults. , 0, , .		63
67	Comparative Analysis of Multiple Active Bridge Converters Configurations in Modular Smart Transformer. IEEE Transactions on Industrial Electronics, 2019, 66, 191-202.	7.9	63
68	Optimum Design of a Multiple-Active-Bridge DC-DC Converter for Smart Transformer. IEEE Transactions on Power Electronics, 2018, 33, 10112-10121.	7.9	62
69	Cascaded Multilevel Converter Topology for Large-Scale Photovoltaic System With Balanced Operation. IEEE Transactions on Industrial Electronics, 2019, 66, 7694-7705.	7.9	62
70	Passivity-Based Control of Switched Reluctance-Based Wind System Supplying Constant Power Load. IEEE Transactions on Industrial Electronics, 2018, 65, 9550-9560.	7.9	60
71	Sizing and SOC Management of a Smart-Transformer-Based Energy Storage System. IEEE Transactions on Industrial Electronics, 2018, 65, 6709-6718.	7.9	59
72	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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73	Integration of Large Photovoltaic and Wind System by Means of Smart Transformer. IEEE Transactions on Industrial Electronics, 2017, 64, 8928-8938.	7.9	58
74	Improving Onboard Converter Reliability for More Electric Aircraft With Lifetime-Based Control. IEEE Transactions on Industrial Electronics, 2019, 66, 5787-5796.	7.9	58
75	A review of passive filters for grid-connected voltage source converters. , 2014, , .		57
76	Thermal Analysis of Multilevel Grid-Side Converters for 10-MW Wind Turbines Under Low-Voltage Ride Through. IEEE Transactions on Industry Applications, 2013, 49, 909-921.	4.9	55
77	Review of modular power converters solutions for smart transformer in distribution system. , 2013, , .		55
78	H8 Inverter for Common-Mode Voltage Reduction in Electric Drives. IEEE Transactions on Industry Applications, 2016, 52, 4010-4019.	4.9	55
79	Highly Efficient and Reliable SiC-Based DC-DC Converter for Smart Transformer. IEEE Transactions on Industrial Electronics, 2017, 64, 8383-8392.	7.9	55
80	Robust Stability Analysis of LCL Filter Based Synchronverter Under Different Grid Conditions. IEEE Transactions on Power Electronics, 2019, 34, 5842-5853.	7.9	55
81	Operating and Loading Conditions of a Three-Level Neutral-Point-Clamped Wind Power Converter Under Various Grid Faults. IEEE Transactions on Industry Applications, 2014, 50, 520-530.	4.9	53
82	Thermal Stress Analysis and MPPT Optimization of Photovoltaic Systems. IEEE Transactions on Industrial Electronics, 2016, 63, 4889-4898.	7.9	53
83	Review of active thermal and lifetime control techniques for power electronic modules. , 2014, , .		52
84	Active thermal control of IGBT power electronic converters. , 2015, , .		52
85	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
86	Smart Transformer-Enabled Meshed Hybrid Distribution Grid. IEEE Transactions on Industrial Electronics, 2021, 68, 282-292.	7.9	52
87	Passivity-Based Control by Series/Parallel Damping of Single-Phase PWM Voltage Source Converter. IEEE Transactions on Control Systems Technology, 2014, 22, 1310-1322.	5.2	49
88	Lifetime-Based Power Routing of a Quadruple Active Bridge DC/DC Converter. IEEE Transactions on Power Electronics, 2017, 32, 8892-8903.	7.9	48
89	Concurrent Voltage Control and Dispatch of Active Distribution Networks by Means of Smart Transformer and Storage. IEEE Transactions on Industrial Electronics, 2018, 65, 6657-6666.	7.9	46
90	Thermally Compensated Discontinuous Modulation Strategy for Cascaded H-Bridge Converters. IEEE Transactions on Power Electronics, 2018, 33, 2704-2713.	7.9	46

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91	Real-Time Primary Frequency Regulation Using Load Power Control by Smart Transformers. IEEE Transactions on Smart Grid, 2019, 10, 5630-5639.	9.0	46
92	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
93	Overview of Anti-Islanding Algorithms for PV Systems. Part II: ActiveMethods. , 2006, , .		44
94	Thermal Stress Based Model Predictive Control of Electric Drives. IEEE Transactions on Industry Applications, 2018, 54, 1513-1522.	4.9	43
95	Modeling Phase-Locked Loop-Based Synchronization in Grid-Interfaced Converters. IEEE Transactions on Energy Conversion, 2020, 35, 394-404.	5.2	43
96	A PV-Inspired Low-Common-Mode Dual-Active-Bridge Converter for Aerospace Applications. IEEE Transactions on Power Electronics, 2018, 33, 10467-10477.	7.9	42
97	Discontinuous-Modulation-Based Active Thermal Control of Power Electronic Modules in Wind Farms. IEEE Transactions on Power Electronics, 2019, 34, 301-310.	7.9	42
98	Real-Time Simulation-Based Testing of Modern Energy Systems: A Review and Discussion. IEEE Industrial Electronics Magazine, 2020, 14, 28-39.	2.6	42
99	Grid-forming converters: an overview of control approaches and future trends. , 2020, , .		42
100	Power Routing: A New Paradigm for Maintenance Scheduling. IEEE Industrial Electronics Magazine, 2020, 14, 33-45.	2.6	41
101	Interleaved Operation of Two Neutral-Point-Clamped Inverters With Reduced Circulating Current. IEEE Transactions on Power Electronics, 2018, 33, 10122-10134.	7.9	40
102	A Comprehensive Assessment of Multiwinding Transformer-Based DC-DC Converters. IEEE Transactions on Power Electronics, 2021, 36, 10020-10036.	7.9	40
103	Lifetime-Based Power Routing in Parallel Converters for Smart Transformer Application. IEEE Transactions on Industrial Electronics, 2018, 65, 1675-1684.	7.9	39
104	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
105	Analysis of the Interaction Among Power Converters Through Their Synchronization Mechanism. IEEE Transactions on Power Electronics, 2019, 34, 12321-12332.	7.9	39
106	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
107	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
108	A Family of Series-Resonant DC-DC Converter With Fault-Tolerance Capability. IEEE Transactions on Industry Applications, 2018, 54, 335-344.	4.9	37

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109	Crossing Thyristor Branches-Based Hybrid Modular Multilevel Converters for DC Line Faults. IEEE Transactions on Industrial Electronics, 2021, 68, 9719-9730.	7.9	37
110	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
111	Zero-Sequence Voltage Modulation Strategy for Multiparallel Converters Circulating Current Suppression. IEEE Transactions on Industrial Electronics, 2017, 64, 1841-1852.	7.9	36
112	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
113	Analysis of the frequency-based control of a master/slave microgrid. IET Renewable Power Generation, 2016, 10, 1570-1576.	3.1	34
114	Smart Transformer-Fed Variable Frequency Distribution Grid. IEEE Transactions on Industrial Electronics, 2018, 65, 749-759.	7.9	34
115	Linear and Nonlinear Control of Distributed Power Generation Systems. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2006, , .	0.0	33
116	Online junction temperature measurement via internal gate resistance during turn-on. , 2014, , .		33
117	An active damper to suppress multiple resonances with unknown frequencies. , 2014, , .		33
118	Thermal Stress Analysis of Medium-Voltage Converters for Smart Transformers. IEEE Transactions on Power Electronics, 2017, 32, 4753-4765.	7.9	32
119	Analysis and Stabilization of a Smart Transformer-Fed Grid. IEEE Transactions on Industrial Electronics, 2018, 65, 1325-1335.	7.9	32
120	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
121	Lifetime estimation for the power semiconductors considering mission profiles in wind power converter. , 2013, , .		31
122	Investigation on Common-Mode Voltage Suppression in Smart Transformer-Fed Distributed Hybrid Grids. IEEE Transactions on Power Electronics, 2018, 33, 8438-8448.	7.9	30
123	Analysis of Voltage Control Strategies for Wind Farms. IEEE Transactions on Sustainable Energy, 2020, 11, 1002-1012.	8.8	30
124	Active Thermal Control of GaN-Based DC/DC Converter. IEEE Transactions on Industry Applications, 2018, 54, 3529-3540.	4.9	29
125	Generalized Harmonic Control for CHB Converters With Unbalanced Cells Operation. IEEE Transactions on Industrial Electronics, 2020, 67, 9039-9047.	7.9	29
126	Online junction temperature measurement using peak gate current. , 2015, , .		28

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127	Analysis of the Robustness of Transformerless PV Inverter Topologies to the Choice of Power Devices. IEEE Transactions on Power Electronics, 2017, 32, 5248-5257.	7.9	28
128	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
129	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
130	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
131	Integrated voltage control and line congestion management in Active Distribution Networks by means of smart transformers. , 2014, , .		27
132	Computational light junction temperature estimator for active thermal control. , 2016, , .		27
133	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
134	Peak Current Control and Feed-Forward Compensation of a DAB Converter. IEEE Transactions on Industrial Electronics, 2020, 67, 8381-8391.	7.9	27
135	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
136	Smart transformer/large flexible transformer. CES Transactions on Electrical Machines and Systems, 2020, 4, 264-274.	3.5	27
137	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
138	Comparative evaluation of passive damping topologies for parallel grid-connected converters with LCL filters. , 2014, , .		26
139	Improved Harmonic Performance of Cascaded H-Bridge Converters With Thermal Control. IEEE Transactions on Industrial Electronics, 2019, 66, 4982-4991.	7.9	26
140	Operation and control of smart transformer for improving performance of medium voltage power distribution system. , 2015, , .		25
141	Grid Identification and Adaptive Voltage Control in a Smart Transformer-Fed Grid. IEEE Transactions on Power Electronics, 2019, 34, 2327-2338.	7.9	25
142	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
143	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
144	Wavelet-Based Islanding Detection Algorithm for Single-Phase Photovoltaic (PV) Distributed Generation Systems. , 2007, , .		24

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145	Robust Active Damping in <i>LCL</i> -Filter-Based Medium-Voltage Parallel Grid Inverters for Wind Turbines. IEEE Transactions on Power Electronics, 2018, 33, 10846-10857.	7.9	24
146	Reduction of the Circulating Current Among Parallel NPC Inverters. IEEE Transactions on Power Electronics, 2021, 36, 12504-12514.	7.9	24
147	Multi-frequency power transfer in a smart transformer based distribution grid. , 2014, , .		23
148	A Thermal Modeling Method Considering Ambient Temperature Dynamics. IEEE Transactions on Power Electronics, 2020, 35, 6-9.	7.9	23
149	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
150	Distortion-Free Saturators for Power Converters Under Unbalanced Conditions. IEEE Transactions on Power Electronics, 2015, 30, 3364-3375.	7.9	22
151	Performance Comparison of Variable-Angle Phase-Shifting Carrier PWM Techniques. IEEE Transactions on Industrial Electronics, 2018, 65, 5272-5281.	7.9	22
152	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
153	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
154	A new prospective of smart transformer application: Dual microgrid (DMG) operation. , 2015, , .		21
155	Analysis of DC-Link Current Influence on Temperature Variation of Capacitor in a Wind Turbine Application. IEEE Transactions on Power Electronics, 2018, 33, 3441-3451.	7.9	21
156	Impact of smart transformer voltage and frequency support in a high renewable penetration system. Electric Power Systems Research, 2021, 190, 106836.	3.6	21
157	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
158	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
159	Enhanced Control of DFIG Wind Turbine Based on Stator Flux Decay Compensation. IEEE Transactions on Energy Conversion, 2016, 31, 1366-1376.	5.2	20
160	Control of transformerless MMC-HVDC during asymmetric grid faults. , 2013, , .		19
161	Power controllability of three-phase converter with unbalanced AC source. , 2013, , .		19
162	Smart Transformer reliability and efficiency through modularity. , 2016, , .		19

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163	Sampling-Time Harmonic Control for Cascaded H-Bridge Converters With Thermal Control. IEEE Transactions on Industrial Electronics, 2020, 67, 2776-2785.	7.9	19
164	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
165	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
166	Voltage and current balancing in Low and Medium Voltage grid by means of Smart Transformer. , 2015, , .		18
167	Quadruple Active Bridge DC-DC converter as the basic cell of a modular Smart Transformer. , 2016, , .		18
168	Design of External Inductor for Improving Performance of Voltage Controlled DSTATCOM. IEEE Transactions on Industrial Electronics, 2016, , 1-1.	7.9	18
169	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
170	Resonance propagation of parallel-operated DC-AC converters with LCL filters. , 2012, , .		17
171	Smart transformer-based hybrid grid loads support in partial disconnection of MV/HV power system. , 2016, , .		17
172	Gate driver for the active thermal control of a DC/DC GaN-based converter. , 2016, , .		17
173	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
174	Assessment of Efficiency and Reliability of Wide Band-Gap Based H8 Inverter in Electric Vehicle Applications. Energies, 2019, 12, 1922.	3.1	17
175	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
176	Current Limitation Strategy For Grid-Forming Converters Under Symmetrical And Asymmetrical Grid Faults. , 2020, , .		17
177	Overview of Anti-Islanding Algorithms for PV Systems. Part I: Passive Methods. , 2006, , .		17
178	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
179	Stability analysis of synchronization of parallel power converters. , 2017, , .		16
180	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

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