

Remus Teodorescu

List of Publications by Year in descending order

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353
papers

22,581
citations

18482

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all docs

384
docs citations

384
times ranked

11556
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiresonant Frequency-Locked Loop for Grid Synchronization of Power Converters Under Distorted Grid Conditions. IEEE Transactions on Industrial Electronics, 2011, 58, 127-138.	7.9	890
2	Evaluation of Current Controllers for Distributed Power Generation Systems. IEEE Transactions on Power Electronics, 2009, 24, 654-664.	7.9	787
3	A New High-Efficiency Single-Phase Transformerless PV Inverter Topology. IEEE Transactions on Industrial Electronics, 2011, 58, 184-191.	7.9	648
4	On the Perturb-and-Observe and Incremental Conductance MPPT Methods for PV Systems. IEEE Journal of Photovoltaics, 2013, 3, 1070-1078.	2.5	629
5	A Stationary Reference Frame Grid Synchronization System for Three-Phase Grid-Connected Power Converters Under Adverse Grid Conditions. IEEE Transactions on Power Electronics, 2012, 27, 99-112.	7.9	628
6	Modeling, Analysis, and Design of Stationary-Reference-Frame Droop-Controlled Parallel Three-Phase Voltage Source Inverters. IEEE Transactions on Industrial Electronics, 2013, 60, 1271-1280.	7.9	559
7	PV panel model based on datasheet values. , 2007, , .		543
8	Adaptive Droop Control Applied to Voltage-Source Inverters Operating in Grid-Connected and Islanded Modes. IEEE Transactions on Industrial Electronics, 2009, 56, 4088-4096.	7.9	504
9	Reliability Issues in Photovoltaic Power Processing Systems. IEEE Transactions on Industrial Electronics, 2008, 55, 2569-2580.	7.9	479
10	Mode Adaptive Droop Control With Virtual Output Impedances for an Inverter-Based Flexible AC Microgrid. IEEE Transactions on Power Electronics, 2011, 26, 689-701.	7.9	458
11	Local Reactive Power Control Methods for Overvoltage Prevention of Distributed Solar Inverters in Low-Voltage Grids. IEEE Journal of Photovoltaics, 2011, 1, 174-182.	2.5	421
12	Eliminating Ground Current in a Transformerless Photovoltaic Application. IEEE Transactions on Energy Conversion, 2010, 25, 140-147.	5.2	395
13	Evaluation of Three-Phase Transformerless Photovoltaic Inverter Topologies. IEEE Transactions on Power Electronics, 2009, 24, 2202-2211.	7.9	374
14	Optimized Maximum Power Point Tracker for Fast-Changing Environmental Conditions. IEEE Transactions on Industrial Electronics, 2008, 55, 2629-2637.	7.9	352
15	Grid-Filter Design for a Multimegawatt Medium-Voltage Voltage-Source Inverter. IEEE Transactions on Industrial Electronics, 2011, 58, 1205-1217.	7.9	352
16	Hierarchical Control of Parallel AC-DC Converter Interfaces for Hybrid Microgrids. IEEE Transactions on Smart Grid, 2014, 5, 683-692.	9.0	327
17	Sizing of an Energy Storage System for Grid Inertial Response and Primary Frequency Reserve. IEEE Transactions on Power Systems, 2016, 31, 3447-3456.	6.5	286
18	Enhanced Decoupled Double Synchronous Reference Frame Current Controller for Unbalanced Grid-Voltage Conditions. IEEE Transactions on Power Electronics, 2012, 27, 3934-3943.	7.9	258

#	ARTICLE	IF	CITATIONS
19	Operation of a Grid-Connected Lithium-Ion Battery Energy Storage System for Primary Frequency Regulation: A Battery Lifetime Perspective. IEEE Transactions on Industry Applications, 2017, 53, 430-438.	4.9	257
20	Instability of Wind Turbine Converters During Current Injection to Low Voltage Grid Faults and PLL Frequency Based Stability Solution. IEEE Transactions on Power Systems, 2014, 29, 1683-1691.	6.5	238
21	An Overview and Comparison of Online Implementable SOC Estimation Methods for Lithium-Ion Battery. IEEE Transactions on Industry Applications, 2018, 54, 1583-1591.	4.9	237
22	Overview of recent grid codes for wind power integration. , 2010, , .		236
23	Overview of Lithium-Ion Battery Modeling Methods for State-of-Charge Estimation in Electrical Vehicles. Applied Sciences (Switzerland), 2018, 8, 659.	2.5	194
24	Grid Impedance Estimation via Excitation of LCL-Filter Resonance. IEEE Transactions on Industry Applications, 2007, 43, 1401-1407.	4.9	173
25	Grid Voltage Synchronization for Distributed Generation Systems Under Grid Fault Conditions. IEEE Transactions on Industry Applications, 2015, 51, 3414-3425.	4.9	170
26	Eliminating ground current in a transformerless photovoltaic application. IEEE Power Engineering Society General Meeting, 2007, , .	0.0	163
27	A review of non-probabilistic machine learning-based state of health estimation techniques for Lithium-ion battery. Applied Energy, 2021, 300, 117346.	10.1	158
28	Frequency Support Functions in Large PV Power Plants With Active Power Reserves. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2014, 2, 849-858.	5.4	145
29	A Simplified Model-Based State-of-Charge Estimation Approach for Lithium-Ion Battery With Dynamic Linear Model. IEEE Transactions on Industrial Electronics, 2019, 66, 7717-7727.	7.9	140
30	Accurate and Less-Disturbing Active Antiislanding Method Based on PLL for Grid-Connected Converters. IEEE Transactions on Power Electronics, 2010, 25, 1576-1584.	7.9	139
31	Reactive Power Control for Improving Wind Turbine System Behavior Under Grid Faults. IEEE Transactions on Power Electronics, 2009, 24, 1798-1801.	7.9	130
32	Accelerated Lifetime Testing Methodology for Lifetime Estimation of Lithium-Ion Batteries Used in Augmented Wind Power Plants. IEEE Transactions on Industry Applications, 2014, 50, 4006-4017.	4.9	127
33	Z-Source-Inverter-Based Flexible Distributed Generation System Solution for Grid Power Quality Improvement. IEEE Transactions on Energy Conversion, 2009, 24, 695-704.	5.2	123
34	Selection and Performance-Degradation Modeling of LiMO ₂ /Li ₄ Ti ₅ SO ₁₂ and LiFePO ₄ /C Battery Cells as Suitable Energy Storage Systems for Grid Integration With Wind Power Plants: An Example for the Primary Frequency Regulation Service. IEEE Transactions on Sustainable Energy, 2014, 5, 90-101.	8.8	115
35	Control of Single-Stage Single-Phase PV Inverter. EPE Journal (European Power Electronics and Drives) Tj ETQq1 1 0,784314 rgBT /Over	0.7	113
36	Towards Long Lifetime Battery: AI-Based Manufacturing and Management. IEEE/CAA Journal of Automatica Sinica, 2022, 9, 1139-1165.	13.1	111

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37	Offset rejection for PLL based synchronization in grid-connected converters. IEEE Applied Power Electronics Conference and Exposition, 2008, , .	0.0	108
38	Line Filter Design of Parallel Interleaved VSCs for High-Power Wind Energy Conversion Systems. IEEE Transactions on Power Electronics, 2015, 30, 6775-6790.	7.9	108
39	Online grid impedance estimation for single-phase grid-connected systems using PQ variations. , 2007, , .		106
40	Power Capability Investigation Based on Electrothermal Models of Press-Pack IGBT Three-Level NPC and ANPC VSCs for Multimegawatt Wind Turbines. IEEE Transactions on Power Electronics, 2012, 27, 3195-3206.	7.9	106
41	Lithium-ion battery state of health estimation with short-term current pulse test and support vector machine. Microelectronics Reliability, 2018, 88-90, 1216-1220.	1.7	104
42	A new modular multilevel converter with integrated energy storage. , 2011, , .		103
43	Hierarchical control of droop-controlled DC and AC microgrids â€” a general approach towards standardization. , 2009, , .		101
44	An Optimization Method for Designing Large PV Plants. IEEE Journal of Photovoltaics, 2013, 3, 814-822.	2.5	101
45	Improved MPPT Algorithms for Rapidly Changing Environmental Conditions. , 2006, , .		100
46	Multiobjective Optimization of Data-Driven Model for Lithium-Ion Battery SOH Estimation With Short-Term Feature. IEEE Transactions on Power Electronics, 2020, 35, 11855-11864.	7.9	100
47	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
48	Overview of recent Grid Codes for PV power integration. , 2012, , .		96
49	Clustered PV inverters in LV networks: An overview of impacts and comparison of voltage control strategies. , 2009, , .		94
50	Diagnostic method for photovoltaic systems based on light lâ€™V measurements. Solar Energy, 2015, 119, 29-44.	6.1	90
51	A Currentless Sorting and Selection-Based Capacitor-Voltage-Balancing Method for Modular Multilevel Converters. IEEE Transactions on Power Electronics, 2019, 34, 1022-1025.	7.9	90
52	Enhancing the Capacity of the AC Distribution System Using DC Interlinksâ€™A Step Toward Future DC Grid. IEEE Transactions on Smart Grid, 2015, 6, 1722-1729.	9.0	88
53	Degradation Behavior of Lithium-Ion Batteries During Calendar Ageingâ€™The Case of the Internal Resistance Increase. IEEE Transactions on Industry Applications, 2018, 54, 517-525.	4.9	88
54	Lithium ion battery chemistries from renewable energy storage to automotive and back-up power applications â€™ An overview. , 2014, , .		85

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55	State-of-health estimation of lithium-ion batteries based on semi-supervised transfer component analysis. Applied Energy, 2020, 277, 115504.	10.1	85
56	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
57	Leakage current evaluation of a singlephase transformerless PV inverter connected to the grid. IEEE Applied Power Electronics Conference and Exposition, 2007, , .	0.0	81
58	Evaluation of the voltage support strategies for the low voltage grid connected PV generators. , 2010, , .		81
59	Lifetime Estimation of the Nanophosphate LiFePO_4 Battery Chemistry Used in Fully Electric Vehicles. IEEE Transactions on Industry Applications, 2015, 51, 3453-3461.	4.9	81
60	On-line grid impedance estimation based on harmonic injection for grid-connected PV inverter. , 2007, , .		80
61	An evolutionary framework for lithium-ion battery state of health estimation. Journal of Power Sources, 2019, 412, 615-622.	7.8	80
62	Index-Based Assessment of Voltage Rise and Reverse Power Flow Phenomena in a Distribution Feeder Under High PV Penetration. IEEE Journal of Photovoltaics, 2015, 5, 1158-1168.	2.5	79
63	Control of a Modular Multilevel Converter With Reduced Internal Data Exchange. IEEE Transactions on Industrial Informatics, 2017, 13, 248-257.	11.3	79
64	Degradation Behavior of Lithium-Ion Batteries Based on Lifetime Models and Field Measured Frequency Regulation Mission Profile. IEEE Transactions on Industry Applications, 2016, 52, 5009-5018.	4.9	77
65	On the feature selection for battery state of health estimation based on charging"discharging profiles. Journal of Energy Storage, 2021, 33, 102122.	8.1	77
66	An optimized ensemble learning framework for lithium-ion Battery State of Health estimation in energy storage system. Energy, 2020, 206, 118140.	8.8	75
67	Control Strategies for Distributed Power Generation Systems Operating on Faulty Grid. , 2006, , .		73
68	I-F starting method with smooth transition to EMF based motion-sensorless vector control of PM synchronous motor/generator. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	73
69	Comparison of DSCC and SDBC Modular Multilevel Converters for STATCOM Application During Negative Sequence Compensation. IEEE Transactions on Industrial Electronics, 2019, 66, 2302-2312.	7.9	70
70	Multiple second order generalized integrators for harmonic synchronization of power converters. , 2009, , .		68
71	Multilevel transformerless topologies for single-phase grid-connected converters. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	67
72	Deterministic and Stochastic Study of Wind Farm Harmonic Currents. IEEE Transactions on Energy Conversion, 2010, 25, 1071-1080.	5.2	67

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73	Diode-Assisted Buck-Boost Voltage-Source Inverters. IEEE Transactions on Power Electronics, 2009, 24, 2057-2064.	7.9	66
74	Energy storage systems impact on the short-term frequency stability of distributed autonomous microgrids, an analysis using aggregate models. IET Renewable Power Generation, 2013, 7, 531-539.	3.1	66
75	PLL Algorithm for Power Generation Systems Robust to Grid Voltage Faults. , 0, , .		63
76	Current Harmonics Cancellation in Three-Phase Four-Wire Systems by Using a Four-Branch Star Filtering Topology. IEEE Transactions on Power Electronics, 2009, 24, 1939-1950.	7.9	63
77	Lithium-ion battery state-of-health estimation in electric vehicle using optimized partial charging voltage profiles. Energy, 2019, 185, 1054-1062.	8.8	63
78	Line Impedance Estimation Using Active and Reactive Power Variations. , 2007, , .		62
79	SoC-based droop method for distributed energy storage in DC microgrid applications. , 2012, , .		62
80	An Integrated Inductor for Parallel Interleaved VSCs and PWM Schemes for Flux Minimization. IEEE Transactions on Industrial Electronics, 2015, 62, 7534-7546.	7.9	61
81	High Order Voltage and Current Harmonic Mitigation Using the Modular Multilevel Converter STATCOM. IEEE Access, 2017, 5, 16684-16692.	4.2	61
82	Short-Circuit Degradation of 10-kV 10-A SiC MOSFET. IEEE Transactions on Power Electronics, 2017, 32, 9342-9354.	7.9	59
83	Design and Analysis of a Slope Voltage Control for a DFIG Wind Power Plant. IEEE Transactions on Energy Conversion, 2012, 27, 11-20.	5.2	57
84	On the Redundancy Strategies of Modular Multilevel Converters. IEEE Transactions on Power Delivery, 2018, 33, 851-860.	4.3	57
85	Power Electronics in Renewable Energy Systems. , 2006, , .		57
86	PV inverter test setup for European efficiency, static and dynamic MPPT efficiency evaluation. , 2008, , .		56
87	An Integrated Inductor for Parallel Interleaved Three-Phase Voltage Source Converters. IEEE Transactions on Power Electronics, 2016, 31, 3400-3414.	7.9	55
88	Low-complexity online estimation for LiFePO4 battery state of charge in electric vehicles. Journal of Power Sources, 2018, 395, 280-288.	7.8	55
89	Converter Structure-Based Power Loss and Static Thermal Modeling of The Press-Pack IGBT Three-Level ANPC VSC Applied to Multi-MW Wind Turbines. IEEE Transactions on Industry Applications, 2011, 47, 2505-2515.	4.9	53
90	Impact of Switching Harmonics on Capacitor Cells Balancing in Phase-Shifted PWM-Based Cascaded H-Bridge STATCOM. IEEE Transactions on Power Electronics, 2017, 32, 815-824.	7.9	53

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91	Performance Analysis of Medium-Voltage Grid Integration of PV Plant Using Modular Multilevel Converter. IEEE Transactions on Energy Conversion, 2019, 34, 1731-1740.	5.2	53
92	Safe current injection strategies for a STATCOM under asymmetrical grid faults. , 2010, , .		48
93	A Review of Second-Life Lithium-Ion Batteries for Stationary Energy Storage Applications. Proceedings of the IEEE, 2022, 110, 735-753.	21.3	47
94	A Review of Pulsed Current Technique for Lithium-ion Batteries. Energies, 2020, 13, 2458.	3.1	45
95	Power Electronics in Renewable Energy Systems. , 2006, , .		44
96	Analysis of communication based distributed control of MMC for HVDC. , 2013, , .		44
97	Improving the Reactive Current Compensation Capability of Cascaded H-Bridge Based STATCOM Under Unbalanced Grid Voltage. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 1466-1476.	5.4	44
98	A Low-Voltage Ride-Through Technique for Grid-connected Converters with Reduced Power Transistors Stress. IEEE Transactions on Power Electronics, 2016, , 1-1.	7.9	43
99	Photovoltaic module diagnostics by series resistance monitoring and temperature and rated power estimation. , 2008, , .		42
100	An Improved Fault-Tolerant Control Scheme for Cascaded H-Bridge STATCOM With Higher Attainable Balanced Line-to-Line Voltages. IEEE Transactions on Industrial Electronics, 2021, 68, 2784-2797.	7.9	42
101	Electro-Thermo-Mechanical Analysis of High-Power Press-Pack Insulated Gate Bipolar Transistors under Various Mechanical Clamping Conditions. IEJ Journal of Industry Applications, 2014, 3, 192-197.	1.1	41
102	Optimal Design of Photovoltaic Systems Using High Time-Resolution Meteorological Data. IEEE Transactions on Industrial Informatics, 2014, 10, 2270-2279.	11.3	40
103	An Automatic Weak Learner Formulation for Lithium-Ion Battery State of Health Estimation. IEEE Transactions on Industrial Electronics, 2022, 69, 2659-2668.	7.9	40
104	Optimized Maximum Power Point Tracker for fast changing environmental conditions. , 2008, , .		39
105	Power Ramp Limitation Capabilities of Large PV Power Plants With Active Power Reserves. IEEE Transactions on Sustainable Energy, 2017, 8, 573-581.	8.8	39
106	A new stacked NPC converter: 3L-topology and control. , 2007, , .		38
107	Topological Design and Modulation Strategy for Buck-Boost Three-Level Inverters. IEEE Transactions on Power Electronics, 2009, 24, 1722-1732.	7.9	38
108	Synchronization of the distributed PWM carrier waves for modular multilevel converters. , 2014, , .		38

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109	Temperature dependency analysis and correction methods of <i>in situ</i> power loss estimation for crystalline silicon modules undergoing potential induced degradation stress testing. Progress in Photovoltaics: Research and Applications, 2015, 23, 1536-1549.	8.1	38
110	Future Ageing Trajectory Prediction for Lithium-Ion Battery Considering the Knee Point Effect. IEEE Transactions on Energy Conversion, 2022, 37, 1282-1291.	5.2	38
111	A Novel Multiple Correction Approach for Fast Open Circuit Voltage Prediction of Lithium-Ion Battery. IEEE Transactions on Energy Conversion, 2019, 34, 1115-1123.	5.2	37
112	Neural Network Based Model Predictive Controllers for Modular Multilevel Converters. IEEE Transactions on Energy Conversion, 2021, 36, 1562-1571.	5.2	37
113	Modeling, analysis, and design of stationary reference frame droop controlled parallel three-phase voltage source inverters. , 2011, , .		36
114	Improved voltage regulation strategies by PV inverters in LV rural networks. , 2012, , .		36
115	Impact of wind power plant reactive current injection during asymmetrical grid faults. IET Renewable Power Generation, 2013, 7, 484-492.	3.1	34
116	Linear and Nonlinear Control of Distributed Power Generation Systems. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2006, , .	0.0	33
117	Model predictive current control for high-power grid-connected converters with output LCL filter. , 2009, , .		33
118	A photovoltaic three-phase topology to reduce Common Mode Voltage. , 2010, , .		33
119	Comparison of two voltage control strategies for a wind power plant. , 2011, , .		33
120	Lithium-ion battery power degradation modelling by electrochemical impedance spectroscopy. IET Renewable Power Generation, 2017, 11, 1136-1141.	3.1	33
121	On DC Fault Dynamics of MMC-Based HVdc Connections. IEEE Transactions on Power Delivery, 2018, 33, 497-507.	4.3	32
122	Primary frequency regulation with Li-ion battery energy storage system: A case study for Denmark. , 2013, , .		31
123	The Degradation Behavior of LiFePO ₄ /C Batteries during Long-Term Calendar Aging. Energies, 2021, 14, 1732.	3.1	31
124	Current control method for distributed generation power generation plants under grid fault conditions. , 2011, , .		30
125	Machine Learning Emulation of Model Predictive Control for Modular Multilevel Converters. IEEE Transactions on Industrial Electronics, 2021, 68, 11628-11634.	7.9	30
126	A self-discharge model of Lithium-Sulfur batteries based on direct shuttle current measurement. Journal of Power Sources, 2016, 336, 325-331.	7.8	29

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127	Fuzzy Entropy-Based State of Health Estimation for Li-Ion Batteries. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 5125-5137.	5.4	29
128	Grid Code Compliance of Grid-Side Converter in Wind Turbine Systems. , 0, , .		28
129	Adaptive droop control applied to distributed generation inverters connected to the grid. , 2008, , .		28
130	Electro-thermal modeling for junction temperature cycling-based lifetime prediction of a press-pack IGBT 3L-NPC-VSC applied to large wind turbines. , 2011, , .		28
131	Fault identification in crystalline silicon PV modules by complementary analysis of the light and dark currentâ€™voltage characteristics. Progress in Photovoltaics: Research and Applications, 2016, 24, 517-532.	8.1	28
132	Reliability-Oriented Design of Modular Multilevel Converters for Medium-Voltage STATCOM. IEEE Transactions on Industrial Electronics, 2020, 67, 6206-6214.	7.9	28
133	Modulated Model Predictive Control for Multilevel Cascaded H-Bridge Converter-Based Static Synchronous Compensator. IEEE Transactions on Industrial Electronics, 2022, 69, 1091-1102.	7.9	28
134	Adaptive hysteresis band current control for transformerless single-phase PV inverters. , 2009, , .		27
135	A comparative study of lithium ion to lead acid batteries for use in UPS applications. , 2014, , .		27
136	Overview of Machine Learning Methods for Lithium-Ion Battery Remaining Useful Lifetime Prediction. Electronics (Switzerland), 2021, 10, 3126.	3.1	27
137	Detection of increased series losses in PV arrays using Fuzzy Inference Systems. , 2012, , .		26
138	Implementation of fault tolerant control for modular multilevel converter using EtherCAT communication. , 2015, , .		26
139	Short circuit signatures from different wind turbine generator types. , 2011, , .		25
140	Control of power converters in distributed generation applications under grid fault conditions. , 2011, , .		25
141	Magnetic Integration for Parallel Interleaved VSCs Connected in a Whiffletree Configuration. IEEE Transactions on Power Electronics, 2016, 31, 7797-7808.	7.9	25
142	Flux-Balancing Scheme for PD-Modulated Parallel-Interleaved Inverters. IEEE Transactions on Power Electronics, 2017, 32, 3442-3457.	7.9	25
143	A Novel Submodule Voltage Balancing Scheme for Modular Multilevel Cascade Converterâ€™Double-Star Chopper-Cells (MMCC-DSCC) Based STATCOM. IEEE Access, 2019, 7, 83058-83073.	4.2	25
144	A Novel Operation Scheme for Modular Multilevel Converter With Enhanced Ride-Through Capability of Submodule Faults. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 1258-1268.	5.4	25

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145	Low voltage ride through strategies for SCIG wind turbines in distributed power generation systems. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	24
146	Design and control of LCL-filter with active damping for Active Power Filter. , 2010, , .		24
147	Enhanced local grid voltage support method for high penetration of distributed generators. , 2011, , .		24
148	Dynamic thermal modelling and analysis of press-pack IGBTs both at component-level and chip-level. , 2013, , .		24
149	Quantifying solar cell cracks in photovoltaic modules by electroluminescence imaging. , 2015, , .		24
150	Optimized Integrated Harmonic Filter Inductor for Dual-Converter-Fed Open-End Transformer Topology. IEEE Transactions on Power Electronics, 2017, 32, 1818-1831.	7.9	24
151	Benchmarking of Modular Multilevel Converter Topologies for ES-STATCOM Realization. Energies, 2020, 13, 3384.	3.1	24
152	High Performance Simulation Models for ES-STATCOM Based on Modular Multilevel Converters. IEEE Transactions on Energy Conversion, 2020, 35, 474-483.	5.2	24
153	Effect of Pulsed Current on Charging Performance of Lithium-Ion Batteries. IEEE Transactions on Industrial Electronics, 2022, 69, 10144-10153.	7.9	24
154	Degradation behaviour of Lithium-ion batteries based on field measured frequency regulation mission profile. , 2015, , .		23
155	Lithium-ion battery dynamic model for wide range of operating conditions. , 2017, , .		23
156	DSCC-MMC STATCOM Main Circuit Parameters Design Considering Positive and Negative Sequence Compensation. Journal of Control, Automation and Electrical Systems, 2018, 29, 62-74.	2.0	23
157	Negative-Sequence Second-Order Circulating Current Injection for Hybrid MMC Under Over-Modulation Conditions. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 2508-2519.	5.4	23
158	On Converter Fault Tolerance in MMC-HVDC Systems: A Comprehensive Survey. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 7459-7470.	5.4	23
159	RUBoost-Based Ensemble Machine Learning for Electrode Quality Classification in Li-ion Battery Manufacturing. IEEE/ASME Transactions on Mechatronics, 2022, 27, 2474-2483.	5.8	23
160	Photovoltaic array condition monitoring based on online regression of performance model. , 2013, , .		22
161	Generic 12-bus test system for wind power integration studies. , 2013, , .		22
162	Field tests experience from 1.6MW/400kWh Li-ion battery energy storage system providing primary frequency regulation service. , 2013, , .		22

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163	Lifetime and economic analyses of lithium-ion batteries for balancing wind power forecast error. International Journal of Energy Research, 2015, 39, 760-770.	4.5	22
164	Wireless Smart Battery Management System for Electric Vehicles. , 2020, , .		22
165	A Dual-Layer Back-Stepping Control Method for Lyapunov Stability in Modular Multilevel Converter Based STATCOM. IEEE Transactions on Industrial Electronics, 2022, 69, 2166-2179.	7.9	22
166	Control of parallel-connected bidirectional AC-DC converters in stationary frame for microgrid application. , 2011, , .		21
167	Short-circuit characterization of 10 kV 10A 4H-SiC MOSFET. , 2016, , .		20
168	Machine Learning Based Operating Region Extension of Modular Multilevel Converters Under Unbalanced Grid Faults. IEEE Transactions on Industrial Electronics, 2021, 68, 4554-4560.	7.9	20
169	A novel optimized LCL-filter designing method for grid connected converter. , 2010, , .		19
170	Control of transformerless MMC-HVDC during asymmetric grid faults. , 2013, , .		19
171	Design of the trap filter for the high power converters with parallel interleaved VSCs. , 2014, , .		19
172	Integrated inductor for interleaved operation of two parallel three-phase voltage source converters. , 2015, , .		19
173	Robust series resistance estimation for diagnostics of photovoltaic modules. , 2009, , .		18
174	Short term energy storage for grid support in wind power applications. , 2012, , .		18
175	Single-point reactive power control method on voltage rise mitigation in residential networks with high PV penetration. Renewable Energy, 2018, 119, 504-512.	8.9	18
176	Solar Cell Capacitance Determination Based on an RLC Resonant Circuit. Energies, 2018, 11, 672.	3.1	18
177	On Inherent Redundancy of MMC-Based STATCOMs in the Overmodulation Region. IEEE Transactions on Power Delivery, 2020, 35, 1169-1179.	4.3	18
178	Resonance propagation of parallel-operated DC-AC converters with LCL filters. , 2012, , .		17
179	High Performance Reduced Order Models for Wind Turbines with Full-Scale Converters Applied on Grid Interconnection Studies. Energies, 2014, 7, 7694-7716.	3.1	17
180	Parallel interleaved VSCs: Influence of the PWM scheme on the design of the coupled inductor. , 2014, , .		17

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181	Performance comparison of phase shifted PWM and sorting method for modular multilevel converters. , 2015, , .		17
182	Smart Battery Pack for Electric Vehicles Based on Active Balancing with Wireless Communication Feedback. Energies, 2019, 12, 3862.	3.1	17
183	Arm Power Control of the Modular Multilevel Converter in Photovoltaic Applications. Energies, 2019, 12, 1620.	3.1	17
184	A Novel Sliding-Discrete-Control-Set Modulated Model Predictive Control for Modular Multilevel Converter. IEEE Access, 2021, 9, 10316-10327.	4.2	17
185	A Novel Detection and Localization Approach of Open-Circuit Switch Fault for the Grid-Connected Modular Multilevel Converter. IEEE Transactions on Industrial Electronics, 2023, 70, 112-124.	7.9	17
186	A new method to implement resampled uniform PWM suitable for distributed control of modular multilevel converters. , 2013, , .		16
187	Optimum Design of MMC-Based ES-STATCOM Systems: The Role of the Submodule Reference Voltage. IEEE Transactions on Industry Applications, 2021, 57, 3064-3076.	4.9	16
188	Partial shadowing detection based on equivalent thermal voltage monitoring for PV module diagnostics. , 2009, , .		15
189	Optimal interleaving angle determination in multi paralleled converters considering the DC current ripple and grid Current THD. , 2015, , .		15
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