

Frede Blaabjerg

List of PR Articles by Year in descending order

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citing authors

#	ARTICLE	IF	PR CITATIONS
1	An Optimal Synchronization Control Method of PLL Utilizing Adaptive Dynamic Programming to Synchronize Inverter-Based Resources With Unbalanced, Low-Inertia, and Very Weak Grids. IEEE Transactions on Automation Science and Engineering, 2025, 22, 24-42.	6.2	14
2	Fog-Based Hierarchical Coordination of Residential Aggregators and Household Demand Response With Power Distribution Grids—Part I: Solution Design. IEEE Transactions on Power Systems, 2025, 40, 85-98.	5.5	2
3	Fog-Based Hierarchical Coordination of Residential Aggregators and Household Demand Response With Power Distribution Grids—Part II: Data Transmission Architecture and Case Studies. IEEE Transactions on Power Systems, 2025, 40, 99-112.	5.5	4
4	Modeling and Suppression Method of Low Order Harmonics for Three-Level Inverter With Small Capacitance Value. IEEE Transactions on Industrial Electronics, 2025, 72, 470-480.	6.5	7
5	Analysis and Damping of Subsynchronous Oscillations for Cascaded Grid-Forming Converters Considering DC-Link Dynamics. IEEE Transactions on Power Electronics, 2025, 40, 2284-2299.	4.9	16
6	A Generic Modeling Approach for Dual-Active-Bridge Converter Family via Topology Transferrable Networks. IEEE Transactions on Industrial Electronics, 2025, 72, 1524-1536.	6.5	5
7	A New Active Motion Control Strategy for Built-in Wave Energy Converter of Ocean Data Buoys. IEEE Transactions on Industrial Electronics, 2025, 72, 3213-3222.	6.5	0
8	An Adaptive Power Angle Compensation Algorithm for Enhancing Transient Stability of Virtual Synchronous Generator. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2025, 13, 966-982.	4.0	3
9	A New Perspective for Frequency and DC Voltage Stability Comprehension in Two-Terminal VSC-HVDC Systems With Virtual Inertia Control. IEEE Transactions on Industrial Electronics, 2025, 72, 3233-3240.	6.5	2
10	Effects of Modulator-Injected Zero-Sequence Signals on System Stability in Three-Phase Voltage Source Converters. IEEE Transactions on Power Electronics, 2025, 40, 435-450.	4.9	2
11	An Advanced Model Predictive Control Method Based on Discrete Space Vector Modulation for Reduced Switch Counts Three-Level Converter. IEEE Transactions on Industrial Electronics, 2025, 72, 3884-3895.	6.5	3
12	Electrical Circuit Analogy-Based Maximum Latency Calculation Method of Internet Data Centers in Power-Communication Network. IEEE Transactions on Smart Grid, 2025, 16, 449-452.	8.0	11
13	Coordinated Operation of Multiple Microgrids With Heat—Electricity Energy Based on Graph Surrogate Model-Enabled Robust Multiagent Deep Reinforcement Learning. IEEE Transactions on Industrial Informatics, 2025, 21, 248-257.	9.5	4
14	Multifrequency Small-Signal Modeling for Three-Phase Grid-Tied Converter Considering Digital Control and PWM Effect. IEEE Transactions on Power Electronics, 2025, 40, 3670-3683.	4.9	3
15	Advantages of SiC and GaN Converters in the Context of Reliability of Smart Metering Based on Power Line Communication. IEEE Transactions on Industrial Electronics, 2025, 72, 4900-4909.	6.5	1
16	Transformerless Inverter with Charge Pump Circuit Concept for PV Application. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2024, , 1-1.	4.0	6
17	Coupled Inductor-Based Current-Fed Ultra-High Step-Up DC-DC Converter Featuring Low Input Current Ripple. IEEE Transactions on Circuits and Systems II: Express Briefs, 2024, 71, 887-891.	2.3	15
18	Dual-Purpose Converters for DC or AC Grid as Energy Transition Solution: Perspectives and Challenges. IEEE Industrial Electronics Magazine, 2024, 18, 46-57.	1.1	24

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19	Stability-Oriented Design of Model Predictive Control for DC/DC Boost Converter. IEEE Transactions on Industrial Electronics, 2024, 71, 922-932.	6.5	38
20	A Novel Common-Mode Voltage Suppression Strategy for Current Source Converter. IEEE Transactions on Industrial Electronics, 2024, 71, 1104-1112.	6.5	17
21	A Multivariable, Adaptive, Robust, Primary Control Enforcing Predetermined Dynamics of Interest in Islanded Microgrids Based on Grid-Forming Inverter-Based Resources. IEEE Transactions on Automation Science and Engineering, 2024, 21, 2494-2506.	6.2	19
22	Stabilization of DC Microgrids Under Cyber Attacks-Optimal Design and Sensitivity Analysis. IEEE Transactions on Smart Grid, 2024, 15, 113-123.	8.0	11
23	Voltage Support With PV Inverters in Low-Voltage Distribution Networks: An Overview. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2024, 12, 1503-1522.	4.0	62
24	An Effective <i>PQ</i> -Decoupling Control Scheme Using Adaptive Dynamic Programming Approach to Reducing Oscillations of Virtual Synchronous Generators for Grid Connection With Different Impedance Types. IEEE Transactions on Industrial Electronics, 2024, 71, 3763-3775.	6.5	20
25	Resilient Cooperative Secondary Control of Islanded AC Microgrids Utilizing Inverter-Based Resources Against State-Dependent False Data Injection Attacks. IEEE Transactions on Industrial Electronics, 2024, 71, 4719-4730.	6.5	47
26	Cooperative Decision-Making Approach for Multiobjective Finite Control Set Model Predictive Control Without Weighting Parameters. IEEE Transactions on Industrial Electronics, 2024, 71, 4495-4506.	6.5	20
27	Clustered Voltage Control and Modulation Scheme With Switching Loss Reduction for High Power Hybrid Cascaded Converter. IEEE Transactions on Industrial Electronics, 2024, 71, 4911-4921.	6.5	10
28	A Novel ANN-Based GMPPT Method for PV Systems Under Complex Partial Shading Conditions. IEEE Transactions on Sustainable Energy, 2024, 15, 328-338.	7.9	28
29	A Switched-Capacitor Multilevel Inverter With Modified Pulsewidth Modulation and Active DC-Link Capacitor Voltage Balancing. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2024, 12, 1215-1229.	4.0	35
30	Fully Symmetrical Hybrid PV Converter With Low Common-Mode Noise. IEEE Transactions on Industrial Electronics, 2024, 71, 4922-4932.	6.5	4
31	On Power Control of Grid-Forming Converters: Modeling, Controllability, and Full-State Feedback Design. IEEE Transactions on Sustainable Energy, 2024, 15, 68-80.	7.9	26
32	Submodule Capacitance Monitoring Approach for the MMC With Asymptotically Converged Error. IEEE Transactions on Industrial Electronics, 2024, 71, 4330-4339.	6.5	12
33	Optimal Sizing of Behind-the-Meter Battery Storage for Providing Profit-Oriented Stackable Services. IEEE Transactions on Smart Grid, 2024, 15, 1481-1494.	8.0	15
34	Robust Synchronization of Multiple Converter-Based Weak Microgrids for Smooth Interconnection. IEEE Transactions on Power Systems, 2024, 39, 2763-2774.	5.5	5
35	Enhanced Single-Inductor Single-Input Dual-Output DC-DC Converter With Voltage Balancing Capability. IEEE Transactions on Industrial Electronics, 2024, 71, 7241-7251.	6.5	21
36	Steady-State Analysis of Class-E/F Inverter with MOSFET Nonlinear Output Capacitance at any Grading Coefficient. IEEE Access, 2024, , 1-1.	3.1	0

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37	Zero-Sequence Voltage Injection-Based Grid Impedance Estimation Method for Three-Phase Four-Wire DC/AC Grid-Connected Inverter. IEEE Transactions on Industrial Electronics, 2024, 71, 7273-7279.	6.5	14
38	Transient Synchronization Stability Analysis of Grid-Following Converter Considering the Coupling Effect of Current Loop and Phase Locked Loop. IEEE Transactions on Energy Conversion, 2024, 39, 544-554.	4.1	40
39	A Design Method to Minimize Detuning for Double-Sided <i>LCC</i> -Compensated IPT System Improving Efficiency Versus Air Gap Variation. IEEE Transactions on Power Electronics, 2024, 39, 1723-1737.	4.9	9
40	A sensorless active control approach to mitigate fatigue loads arising from the torsional and blade edgewise vibrations in PMSG-based wind turbine system. International Journal of Electrical Power and Energy Systems, 2024, 155, 109525.	5.1	14
41	Alleviation of Leakage Current and Neutral Point Voltage Deviation for Using an Eight-Switch Inverter. IEEE Transactions on Industrial Electronics, 2024, 71, 8793-8807.	6.5	10
42	A new robust nonlinear control strategy for UIPC in isolated hybrid microgrids. International Journal of Electrical Power and Energy Systems, 2024, 155, 109569.	5.1	2
43	A Distributed High-Impedance Fault Detection and Protection Scheme in DC Microgrids. IEEE Transactions on Power Delivery, 2024, 39, 141-154.	3.0	15
44	Dynamic Coupling Mechanism Analysis Between Voltage and Frequency in Virtual Synchronous Generator System. IEEE Transactions on Power Systems, 2024, 39, 2365-2368.	5.5	29
45	A Novel Consequent-Pole Magnetic Lead Screw and its 3-D Analytical Model With Experimental Verification for Wave Energy Conversion. IEEE Transactions on Energy Conversion, 2024, 39, 1202-1215.	4.1	28
46	Flexible Transient Design-Oriented Model Predictive Control for Power Converters. IEEE Transactions on Industrial Electronics, 2024, 71, 11377-11387.	6.5	7
47	Energy management systems for forecasted demand error compensation using hybrid energy storage system in nanogrid. Renewable Energy, 2024, 221, 119744.	9.2	17
48	A Novel Sensor-Reduction Condition Monitoring Approach for MMC Submodule IGBTs Based on Statistics of Inferred On-State Voltage. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2024, 12, 1068-1077.	4.0	15
49	The Impact of Operational and Environmental Conditions on Battery Lifetime in Fast Electric Vehicle Charging Systems. IEEE Transactions on Power Electronics, 2024, 39, 4645-4656.	4.9	4
50	Potential Failure Risk of Fault Location for Modular Multilevel Converters Under Light Loads and a Current Reshaping-Based Solution. IEEE Transactions on Power Electronics, 2024, 39, 3601-3612.	4.9	8
51	Impedance Reshaping Method of DFIC System Based on Compensating Rotor Current Dynamic to Eliminate PLL Influence. IEEE Transactions on Power Electronics, 2024, 39, 4006-4016.	4.9	17
52	A Generic Power Compensation Control for Grid Forming Virtual Synchronous Generator With Damping Correction Loop. IEEE Transactions on Industrial Electronics, 2024, 71, 10908-10918.	6.5	17
53	Enhanced Coordination in the PV&HES Microgrids Cluster: Introducing a New Distributed Event Consensus Algorithm. Energies, 2024, 17, 293.	3.0	5
54	Stability Analysis of Grid-Following and Grid-Forming Converters Based on State-Space Modelling. IEEE Transactions on Industry Applications, 2024, 60, 4910-4920.	3.5	65

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55	A Novel Hybrid Excitation Magnetic Lead Screw and Its Transient Sub-Domain Analytical Model for Wave Energy Conversion. IEEE Transactions on Energy Conversion, 2024, 39, 1726-1737.	4.1	46
56	Hybrid Pulse Width Modulation for Improving Reliability of DC-Link Capacitors of NPC Inverter in Photovoltaic Systems. IEEE Access, 2024, 12, 18752-18763.	3.1	6
57	Optimal Control of Multilevel DAB Converters for Soft-Switching and Minimum Current Stress. IEEE Transactions on Power Electronics, 2024, 39, 5707-5720.	4.9	23
58	Composition and Control of a New Type of Hybrid Voltage-Source Converter Based on DRUs and FB-MMC for Large-Scale Offshore Wind Power Integration and Transmission. IEEE Transactions on Power Electronics, 2024, 39, 5721-5732.	4.9	10
59	Sustainability of Power Electronics and Batteries: A Circular Economy Approach. IEEE Power Electronics Magazine, 2024, 11, 39-46.	0.4	31
60	A Modified Discontinuous PWM Method for Three-Level Inverters With the Improved LCL Filter. IEEE Transactions on Power Electronics, 2024, 39, 5498-5509.	4.9	21
61	Direct Metallization-Based DBC-Free Power Modules for Near-Junction Water Cooling: Analysis and Experimental Comparison. IEEE Transactions on Power Electronics, 2024, 39, 7052-7063.	4.9	17
62	Improved Phase Control With Two Degrees of Freedom for Current Source Converter Using in HVDC Systems. IEEE Transactions on Power Delivery, 2024, 39, 1512-1523.	3.0	5
63	Probabilistic net load forecasting based on transformer network and Gaussian process-enabled residual modeling learning method. Renewable Energy, 2024, 225, 120253.	9.2	42
64	Investigation on Saturation Voltage Increment of Multichip Press-Pack IGBTs Under Power Cycling Tests. IEEE Transactions on Industrial Electronics, 2024, 71, 15012-15023.	6.5	7
65	A Novel Switching Strategy Based on the Driving Voltage and Switching Sequence for Si/SiC Hybrid Switch. IEEE Transactions on Industrial Electronics, 2024, 71, 14265-14275.	6.5	8
66	Temporal Modeling for Power Converters With Physics-in-Architecture Recurrent Neural Network. IEEE Transactions on Industrial Electronics, 2024, 71, 14111-14123.	6.5	18
67	Data-Light Physics-Informed Modeling for the Modulation Optimization of a Dual-Active-Bridge Converter. IEEE Transactions on Power Electronics, 2024, 39, 8770-8785.	4.9	12
68	Synchronization Stability Analysis Under Ultra-Weak Grid Considering Reactive Current Dynamics. IEEE Transactions on Industrial Electronics, 2024, 71, 15220-15223.	6.5	18
69	Power electronics in wind generation systems. Nature Reviews Electrical Engineering, 2024, 1, 234-250.	0.0	21
70	A Novel Reinforcement-Learning-Based Compensation Strategy for DMPC-Based Day-Ahead Energy Management of Shipboard Power Systems. IEEE Transactions on Smart Grid, 2024, 15, 4349-4363.	8.0	14
71	Impact of Synchronous Condensers' Ratings on Mitigating Subsynchronous Oscillations in Wind Farms. Energies, 2024, 17, 1730.	3.0	3
72	A Novel MADRL With Spatial-Temporal Pattern Capturing Ability for Robust Decentralized Control of Multiple Microgrids Under Anomalous Measurements. IEEE Transactions on Sustainable Energy, 2024, 15, 1872-1884.	7.9	11

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73	Feature Graph-Enabled Graphical Learning for Robust DSSE With Inaccurate Topology Information. IEEE Transactions on Power Systems, 2024, 39, 6091-6094.	5.5	10
74	Reliability-driven clustering methodology for probabilistic forecast of environmental conditions in power electronics applications. International Journal of Electrical Power and Energy Systems, 2024, 158, 109929.	5.1	4
75	A Distributed Turn-Off Delay Compensator Scheme for Voltage Balancing of Series-Connected IGBTs. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2024, 12, 2545-2557.	4.0	3
76	Open-Circuit Fault Diagnosis and Fault-Tolerant Control for a Coupled-Inductor-Based Aalborg Inverter. IEEE Transactions on Industrial Electronics, 2024, 71, 14044-14053.	6.5	9
77	X-in-the-Loop Validation of Deep Learning-Based Virtual Sensing for Lifetime Estimation of Automotive Power Electronics Converters. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2024, 12, 5777-5793.	4.0	7
78	Stability Analysis in Multi-VSC (Voltage Source Converter) Systems of Wind Turbines. Applied Sciences (Switzerland), 2024, 14, 3519.	2.2	3
79	Reliability-Oriented Asymmetric Power Device Size Selection of Neutral-Point Clamped Inverter Considering Mission Profiles. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2024, 12, 5966-5976.	4.0	2
80	Quantitative assessment mechanism of low frequency oscillations in train-network systems. Sustainable Energy, Grids and Networks, 2024, 39, 101410.	3.7	3
81	Active Flux Based Advanced Encoderless AC Drives: A Tutorial Review. IEEE Transactions on Power Electronics, 2024, 39, 13510-13523.	4.9	15
82	Unidirectional Hybrid Three-Phase Rectifier with Boost Converter and Coupled Inductor. Electronics (Switzerland), 2024, 13, 1864.	2.3	1
83	Robust Multiarea Distribution System State Estimation Based on Structure-Informed Graphic Network and Multitask Gaussian Process. IEEE Transactions on Industrial Informatics, 2024, 20, 10599-10612.	9.5	11
84	Sensorless Open-Circuit-Fault Diagnosis Method for NPC-Based DAB Converter. IEEE Transactions on Power Electronics, 2024, 39, 10699-10703.	4.9	6
85	Enhanced Deadbeat Control-Model Predictive Control Strategy of Grid-Connected Power Converters With LCL Filter. IEEE Transactions on Industrial Electronics, 2024, 71, 15826-15834.	6.5	9
86	Disturbance Suppression for Testing System of Submodules in MMC by Dynamic Correction Control and Parameter Design. IEEE Transactions on Power Electronics, 2024, 39, 12502-12513.	4.9	0
87	An interior-angle analysis of power for fault detection in VSC-based HVDC-grids. International Journal of Electrical Power and Energy Systems, 2024, 159, 110058.	5.1	4
88	A review of data-driven whole-life state of health prediction for lithium-ion batteries: Data preprocessing, aging characteristics, algorithms, and future challenges. Journal of Energy Chemistry, 2024, 97, 630-649.	14.3	82
89	Self-Stability and Induced-Stability Analysis for Frequency and Voltage in Grid-Forming VSG System With Generic Magnitude-Phase Model. IEEE Transactions on Industrial Informatics, 2024, 20, 12328-12338.	9.5	22
90	Adaptive Multipattern Inverter Control of Si/SiC Hybrid Switches Based on Safe Operating Range Characterization. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2024, 12, 5828-5838.	4.0	7

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91	Novel Frequency Regulation Scenarios Generation Method Serving for Battery Energy Storage System Participating in PJM Market. <i>Energies</i> , 2024, 17, 3479.	3.0	5
92	Negative Resistor-Based Equivalent Circuit Model of Lithium-Ion Battery Energy Storage System for Grid Inertia Support. <i>IEEE Transactions on Power Electronics</i> , 2024, 39, 15217-15230.	4.9	10
93	Online Temperature Estimation for Lithium-Ion Batteries Utilizing a Single-Frequency Impedance Unaffected by Their Peripheral Circuits. <i>IEEE Transactions on Power Electronics</i> , 2024, 39, 15118-15135.	4.9	7
94	ANPC Switched-Capacitor 19L Inverter Using SHE PWM for 1- ϕ HFAC PDS Applications. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2024, 12, 4494-4505.	4.0	13
95	Passivity-Based Optimal State-Feedback Control for LCL-Filtered Grid-Following Converter. <i>IEEE Transactions on Power Electronics</i> , 2024, 39, 13009-13022.	4.9	4
96	Reliability Estimation of Wired and Wireless Fast Electric Vehicle Charging Systems. <i>IEEE Transactions on Power Electronics</i> , 2024, 39, 15584-15595.	4.9	8
97	Topology Review of Transformerless Single-Phase Common-Ground Converters: Rectifiers. <i>IEEE Transactions on Power Electronics</i> , 2024, 39, 16731-16774.	4.9	5
98	Application-Oriented Flexible Power Cycling Test System for Power Electronic Components. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2024, 12, 5805-5816.	4.0	3
99	An Additional Damping Torque Method for Low-Frequency Stability Enhancement of Virtual Synchronous Generators. <i>IEEE Transactions on Power Electronics</i> , 2024, 39, 15858-15869.	4.9	26
100	Coordinated PWM-Based Active Thermal Control for Power Semiconductor Devices in Parallel Grid-Tied Inverters. <i>IEEE Transactions on Power Electronics</i> , 2024, 39, 15655-15671.	4.9	3
101	Evaluation of Capacitor Voltage Balancing Control Strategies for Multilevel DAB Converters. <i>IEEE Transactions on Power Electronics</i> , 2024, 39, 15548-15564.	4.9	11
102	Current-Limiting Control Strategy for Indirect-Current-Controlled Active Power Filter. <i>IEEE Transactions on Power Delivery</i> , 2024, 39, 3551-3554.	3.0	2
103	Artificial Intelligence in the Hierarchical Control of AC, DC, and Hybrid AC/DC Microgrids: A Review. <i>IEEE Access</i> , 2024, 12, 157227-157246.	3.1	22
104	A Multilevel Inverter With Minimized Components Featuring Self-Balancing and Boosting Capabilities for PV Applications. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2023, 11, 1169-1178.	4.0	41
105	State-Space Modeling and Control of Grid-Tied Power Converters With Capacitive/Battery Energy Storage and Grid-Supportive Services. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2023, 11, 234-250.	4.0	53
106	Novel Control of Dual-Grounded Soft-Switching Transformerless Single-Phase Inverter. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2023, 11, 3647-3655.	4.0	5
107	A New Virtual Inductance Control Method for Frequency Stabilization of Grid-Forming Virtual Synchronous Generators. <i>IEEE Transactions on Industrial Electronics</i> , 2023, 70, 441-451.	6.5	58
108	A New Wave Energy Converter for Marine Data Buoy. <i>IEEE Transactions on Industrial Electronics</i> , 2023, 70, 2076-2084.	6.5	30

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109	Online DC-Link Capacitance Monitoring for Digital-Controlled Boost PFC Converters Without Additional Sampling Devices. IEEE Transactions on Industrial Electronics, 2023, 70, 907-920.	6.5	24
110	A Meta-Learning Method for Electric Machine Bearing Fault Diagnosis Under Varying Working Conditions With Limited Data. IEEE Transactions on Industrial Informatics, 2023, 19, 2552-2564.	9.5	130
111	High Step-Up SEPIC-Based Trans-Inverse DC-DC Converter With Quasi-Resonance Operation for Renewable Energy Applications. IEEE Transactions on Industrial Electronics, 2023, 70, 485-497.	6.5	50
112	A New High Efficiency High Step-Up DC/DC Converter for Renewable Energy Applications. IEEE Transactions on Industrial Electronics, 2023, 70, 1489-1500.	6.5	89
113	Decoupled Control Scheme for THD Reduction and One Specific Harmonic Elimination in the Modular Multilevel Converter. IEEE Transactions on Industrial Electronics, 2023, 70, 99-111.	6.5	17
114	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.	6.5	58
115	Isolation Forest Based Submodule Open-Circuit Fault Localization Method for Modular Multilevel Converters. IEEE Transactions on Industrial Electronics, 2023, 70, 3090-3102.	6.5	34
116	On-Line Condition Monitoring System for DC-Link Capacitor of Back-to-Back Converters Using Large-Signal Transients. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2023, 11, 1132-1142.	4.0	25
117	Capacitor Voltage Balancing for Multilevel Dual-Active-Bridge DC-DC Converters. IEEE Transactions on Industrial Electronics, 2023, 70, 2566-2575.	6.5	34
118	Dissipation Factor as a Degradation Indicator for Electrolytic Capacitors. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2023, 11, 1035-1044.	4.0	20
119	Overview of Fundamental Frequency Sensorless Algorithms for AC Motors: A Unified Perspective. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2023, 11, 915-931.	4.0	79
120	An optimized parameter design of passivity-based controller for single-phase voltage source inverters. International Journal of Electrical Power and Energy Systems, 2023, 145, 108627.	5.1	11
121	Modular Modeling and Statistical Validation for Grid-Connected FS-MPC-Controlled Matrix Converters. IEEE Transactions on Industrial Electronics, 2023, 70, 8613-8623.	6.5	10
122	Intelligent Secondary Control of Islanded AC Microgrids: A Brain Emotional Learning-Based Approach. IEEE Transactions on Industrial Electronics, 2023, 70, 6711-6723.	6.5	55
123	Design and Implementation of a PV-Fed Grid-Integrated Wireless Electric Vehicle Battery Charger Present in a Residential Environment. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2023, 4, 78-86.	3.1	28
124	Space-Vector-Equalized Predictive Current Control Scheme for the Modular Multilevel Converter With Improved Steady-State Performance. IEEE Transactions on Industrial Electronics, 2023, 70, 6470-6481.	6.5	23
125	A Power Routing-Based Fault Detection Strategy for Multi-Terminal VSC-HVDC Grids. IEEE Transactions on Power Delivery, 2023, 38, 528-540.	3.0	17
126	A Power-Angle-Based Adaptive Overcurrent Protection Scheme for Grid-Forming Inverter Under Large Grid Disturbances. IEEE Transactions on Industrial Electronics, 2023, 70, 5927-5936.	6.5	74

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127	An Improved Model Predictive Control Method Using Optimized Voltage Vectors for Vienna Rectifier With Fixed Switching Frequency. IEEE Transactions on Power Electronics, 2023, 38, 358-371.	4.9	40
128	A Model-Free Capacitor Voltage Balancing Method for Multilevel DAB Converters. IEEE Transactions on Power Electronics, 2023, 38, 79-84.	4.9	23
129	Grid Inertia and Damping Support Enabled by Proposed Virtual Inductance Control for Grid-Forming Virtual Synchronous Generator. IEEE Transactions on Power Electronics, 2023, 38, 294-303.	4.9	87
130	Power coupling analysis and improved decoupling control for the VSC connected to a weak AC grid. International Journal of Electrical Power and Energy Systems, 2023, 145, 108645.	5.1	89
131	More Efficient Energy Management for Networked Hybrid AC/DC Microgrids With Multivariable Nonlinear Conversion Losses. IEEE Systems Journal, 2023, 17, 3212-3223.	3.9	7
132	Dissipativity Robustness Enhancement for <i>LCL</i> -Filtered Grid-Connected VSCs With Multisampled Grid-Side Current Control. IEEE Transactions on Power Electronics, 2023, 38, 3992-4004.	4.9	21
133	Multipurpose FCS Model Predictive Control of VSC-Based Microgrids for Islanded and Grid-Connected Operation Modes. IEEE Systems Journal, 2023, 17, 2558-2569.	3.9	39
134	Distinguishing Between Cyber Attacks and Faults in Power Electronic Systems—A Noninvasive Approach. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2023, 11, 1578-1588.	4.0	19
135	Deep Reinforcement Learning Aided Variable-Frequency Triple-Phase-Shift Control for Dual-Active-Bridge Converter. IEEE Transactions on Industrial Electronics, 2023, 70, 10506-10515.	6.5	51
136	Accurate Condition Monitoring of Semiconductor Devices in Cascaded H-Bridge Modular Multilevel Converters. IEEE Transactions on Power Electronics, 2023, 38, 3870-3884.	4.9	12
137	Floating-Reference On-State Voltage Measurement Strategy for Condition Monitoring Application. IEEE Transactions on Power Electronics, 2023, 38, 2529-2538.	4.9	10
138	An enhanced control strategy for an ultra-fast EV charging station in a DC microgrid. International Journal of Electrical Power and Energy Systems, 2023, 146, 108727.	5.1	22
139	Dual-Layer Modulated Model Predictive Control Scheme for the Cascaded H-Bridge Converter. IEEE Transactions on Industrial Electronics, 2023, 70, 9751-9763.	6.5	24
140	A 40-Pulse Autotransformer Rectifier Based on New Pulse Multiplication Circuit for Aviation Application. IEEE Transactions on Industrial Electronics, 2023, 70, 10822-10832.	6.5	24
141	Admittance-Based Stability Analysis of Resistance-Emulating Controlled Grid-Connected Voltage Source Rectifiers. IEEE Transactions on Industrial Electronics, 2023, 70, 10076-10088.	6.5	6
142	Core Energy Capacitance of NiZn Inductors. IEEE Transactions on Power Electronics, 2023, 38, 4235-4240.	4.9	12
143	Adaptive Damping Control to Enhance Small-Signal Stability of DC Microgrids. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2023, 11, 2963-2978.	4.0	24
144	Wideband Series Harmonic Voltage Compensator Using Look-Ahead State Trajectory Prediction for Network Stability Enhancement and Condition Monitoring. IEEE Transactions on Power Electronics, 2023, 38, 5266-5282.	4.9	6

#	ARTICLE	IF	PR CITATIONS
145	Analysis and Optimal Modulation for 2/3-Level DAB Converters to Minimize Current Stress With Five-Level Control. IEEE Transactions on Power Electronics, 2023, 38, 4596-4612.	4.9	35
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