

Vivek Agarwal

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5882991/publications.pdf>

Version: 2024-02-01

174
papers

6,737
citations

87843

38
h-index

69214

77
g-index

174
all docs

174
docs citations

174
times ranked

4520
citing authors

#	ARTICLE	IF	CITATIONS
1	MATLAB-Based Modeling to Study the Effects of Partial Shading on PV Array Characteristics. IEEE Transactions on Energy Conversion, 2008, 23, 302-310.	3.7	985
2	Maximum Power Point Tracking Scheme for PV Systems Operating Under Partially Shaded Conditions. IEEE Transactions on Industrial Electronics, 2008, 55, 1689-1698.	5.2	853
3	A Single-Stage Grid Connected Inverter Topology for Solar PV Systems With Maximum Power Point Tracking. IEEE Transactions on Power Electronics, 2007, 22, 1928-1940.	5.4	515
4	An Integrated Hybrid Power Supply for Distributed Generation Applications Fed by Nonconventional Energy Sources. IEEE Transactions on Energy Conversion, 2008, 23, 622-631.	3.7	195
5	A Hybrid Control Algorithm for Voltage Regulation in DC-DC Boost Converter. IEEE Transactions on Industrial Electronics, 2008, 55, 2530-2538.	5.2	178
6	A Single-Stage Single-Phase Transformer-Less Doubly Grounded Grid-Connected PV Interface. IEEE Transactions on Energy Conversion, 2009, 24, 93-101.	3.7	170
7	Design and Analysis of a High-Efficiency DC-DC Converter With Soft Switching Capability for Renewable Energy Applications Requiring High Voltage Gain. IEEE Transactions on Industrial Electronics, 2016, 63, 2936-2944.	5.2	151
8	MPPT Scheme for a PV-Fed Single-Phase Single-Stage Grid-Connected Inverter Operating in CCM With Only One Current Sensor. IEEE Transactions on Energy Conversion, 2009, 24, 256-263.	3.7	132
9	Universal Single-Stage Grid-Connected Inverter. IEEE Transactions on Energy Conversion, 2008, 23, 128-137.	3.7	129
10	A Novel Reconfigurable Microgrid Architecture With Renewable Energy Sources and Storage. IEEE Transactions on Industry Applications, 2015, 51, 1805-1816.	3.3	128
11	Novel Nonlinear Droop Control Techniques to Overcome the Load Sharing and Voltage Regulation Issues in DC Microgrid. IEEE Transactions on Power Electronics, 2018, 33, 4477-4487.	5.4	128
12	Novel High-Performance Stand-Alone Solar PV System With High-Gain High-Efficiency DC-DC Converter Power Stages. IEEE Transactions on Industry Applications, 2015, 51, 4718-4728.	3.3	126
13	A DSP Based Optimal Algorithm for Shunt Active Filter Under Nonsinusoidal Supply and Unbalanced Load Conditions. IEEE Transactions on Power Electronics, 2007, 22, 593-601.	5.4	97
14	Novel Integration of a PV-Wind Energy System With Enhanced Efficiency. IEEE Transactions on Power Electronics, 2015, 30, 3638-3649.	5.4	92
15	Experimental Evaluation of Internal Model Control Scheme on a DC-DC Boost Converter Exhibiting Nonminimum Phase Behavior. IEEE Transactions on Power Electronics, 2017, 32, 8880-8891.	5.4	88
16	Exact Maximum Power Point Tracking of Grid-Connected Partially Shaded PV Source Using Current Compensation Concept. IEEE Transactions on Power Electronics, 2014, 29, 4684-4692.	5.4	85
17	Novel Boost-SEPIC Type Interleaved DC-DC Converter for Mitigation of Voltage Imbalance in a Low-Voltage Bipolar DC Microgrid. IEEE Transactions on Industrial Electronics, 2020, 67, 6494-6504.	5.2	84
18	Novel Four-Port DC-DC Converter for Interfacing Solar PV-Fuel Cell Hybrid Sources With Low-Voltage Bipolar DC Microgrids. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 1330-1340.	3.7	82

#	ARTICLE	IF	CITATIONS
19	New current control based MPPT technique for single stage grid connected PV systems. Energy Conversion and Management, 2007, 48, 625-644.	4.4	73
20	Reactive Power Capacity Enhancement of a PV-Grid System to Increase PV Penetration Level in Smart Grid Scenario. IEEE Transactions on Smart Grid, 2014, 5, 1845-1854.	6.2	71
21	Global maximum power point tracking of PV arrays under partial shading conditions using a modified particle velocity-based PSO technique. IET Renewable Power Generation, 2018, 12, 555-564.	1.7	68
22	Model Predictive Controller With Reduced Complexity for Grid-Tied Multilevel Inverters. IEEE Transactions on Industrial Electronics, 2019, 66, 8851-8855.	5.2	68
23	Utility-Interactive Hybrid Distributed Generation Scheme With Compensation Feature. IEEE Transactions on Energy Conversion, 2007, 22, 666-673.	3.7	63
24	A Novel Communication-Based Average Voltage Regulation Scheme for a Droop Controlled DC Microgrid. IEEE Transactions on Smart Grid, 2019, 10, 1250-1258.	6.2	63
25	A Frequency-Dependent Virtual Impedance for Voltage-Regulating Converters Feeding Constant Power Loads in a DC Microgrid. IEEE Transactions on Industry Applications, 2018, 54, 5630-5639.	3.3	61
26	Maximum Power Extraction From a Partially Shaded PV Array Using Shunt-Series Compensation. IEEE Journal of Photovoltaics, 2014, 4, 1128-1137.	1.5	60
27	Controller Area Network Assisted Grid Synchronization of a Microgrid With Renewable Energy Sources and Storage. IEEE Transactions on Smart Grid, 2016, 7, 1442-1452.	6.2	56
28	Fuzzy Logic Control of the Ultracapacitor Interface for Enhanced Transient Response and Voltage Stability of a DC Microgrid. IEEE Transactions on Industry Applications, 2019, 55, 712-720.	3.3	53
29	Novel Control Scheme for an Interleaved Flyback Converter Based Solar PV Microinverter to Achieve High Efficiency. IEEE Transactions on Industry Applications, 2018, 54, 3473-3482.	3.3	47
30	A Novel Three-Phase Transformerless H-8 Topology With Reduced Leakage Current for Grid-Tied Solar PV Applications. IEEE Transactions on Industry Applications, 2019, 55, 1765-1774.	3.3	47
31	Distributed Maximum Power Extraction From Fuel Cell Stack Arrays Using Dedicated Power Converters in Series and Parallel Configuration. IEEE Transactions on Energy Conversion, 2016, 31, 1442-1451.	3.7	46
32	Control of a Stand-Alone Inverter-Based Distributed Generation Source for Voltage Regulation and Harmonic Compensation. IEEE Transactions on Power Delivery, 2008, 23, 1113-1120.	2.9	43
33	Single Phase Current Source Inverter With Multiloop Control for Transformerless Grid-Connected PV Interface. IEEE Transactions on Industry Applications, 2018, 54, 2416-2424.	3.3	43
34	On the Input Resistance of a Reconfigurable Switched Capacitor DC-DC Converter-Based Maximum Power Point Tracker of a Photovoltaic Source. IEEE Transactions on Power Electronics, 2012, 27, 4880-4893.	5.4	41
35	Machine learning approach to color constancy. Neural Networks, 2007, 20, 559-563.	3.3	40
36	A Modified T-Structured Three-Level Inverter Configuration Optimized With Respect to PWM Strategy Used for Common-Mode Voltage Elimination. IEEE Transactions on Industry Applications, 2017, 53, 4779-4787.	3.3	40

#	ARTICLE	IF	CITATIONS
37	A Novel Control Scheme for Enhancing the Transient Performance of an Islanded Hybrid AC-DC Microgrid. IEEE Transactions on Power Electronics, 2019, 34, 9644-9654.	5.4	40
38	Adaptive Velocity PSO for Global Maximum Power Control of a PV Array Under Nonuniform Irradiation Conditions. IEEE Journal of Photovoltaics, 2017, 7, 624-639.	1.5	39
39	Distributed PV Power Extraction Based on a Modified Interleaved SEPIC for Nonuniform Irradiation Conditions. IEEE Journal of Photovoltaics, 2015, 5, 1442-1453.	1.5	38
40	Analysis and Control of a Novel Transformer-Less Microinverter for PV-Grid Interface. IEEE Journal of Photovoltaics, 2018, 8, 1110-1118.	1.5	38
41	A New Family of 1- Five-Level Transformerless Inverters for Solar PV Applications. IEEE Transactions on Industry Applications, 2019, , 1-1.	3.3	38
42	A DSP-Based Control Algorithm for Series Active Filter for Optimized Compensation Under Nonsinusoidal and Unbalanced Voltage Conditions. IEEE Transactions on Power Delivery, 2007, 22, 302-310.	2.9	33
43	Optimal energy harvesting from a high-speed brushless DC generator-based flywheel energy storage system. IET Electric Power Applications, 2013, 7, 693-700.	1.1	33
44	Simplified Implementation Scheme for Space Vector Pulse Width Modulation of <i>n</i> -Level Inverter With Online Computation of Optimal Switching Pulse Durations. IEEE Transactions on Industrial Electronics, 2016, 63, 6695-6704.	5.2	33
45	Improved Transformerless Grid-Tied PV Inverter Effectively Operating at Twice the Switching Frequency With Constant CMV and Reactive Power Capability. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 3477-3486.	3.7	32
46	UV photo-ionization based asymmetric field differential ion mobility sensor for trace gas detection. Sensors and Actuators B: Chemical, 2014, 195, 44-51.	4.0	30
47	A Transformerless 1-, 5-Level Half-Bridge PV Inverter Configuration Based on Switched-Capacitor Technique. IEEE Transactions on Industry Applications, 2021, 57, 1619-1628.	3.3	29
48	A new energy optimal control scheme for a separately excited DC motor based incremental motion drive. International Journal of Automation and Computing, 2009, 6, 267-276.	4.5	27
49	A Novel Feedforward Stabilizing Technique to Damp Power Oscillations Caused by DC-DC Converters Fed From a DC Bus. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 1528-1535.	3.7	26
50	High-Efficiency Bidirectional Converter for Flywheel Energy Storage Application. IEEE Transactions on Industrial Electronics, 2016, 63, 5477-5487.	5.2	25
51	Analysis for the Minimization of Leakage and Common Mode Currents in Cascaded Half-Bridge PV Fed Multilevel Inverter. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2019, 7, 2443-2452.	3.7	25
52	Model Predictive Control for Flexible Reduction of Active Power Oscillation in Grid-Tied Multilevel Inverters Under Unbalanced and Distorted Microgrid Conditions. IEEE Transactions on Industry Applications, 2020, 56, 1107-1115.	3.3	25
53	Photovoltaic Module-Integrated Stand-alone Single-Stage Switched Capacitor Inverter with Maximum Power Point Tracking. IEEE Transactions on Power Electronics, 2017, 32, 3571-3584.	5.4	24
54	Precise active and reactive power control of the PV-DGS integrated with weak grid to increase PV penetration. , 2014, , .		23

#	ARTICLE	IF	CITATIONS
55	Trajectory Optimization for Loss Minimization in Induction Motor Fed Elevator Systems. IEEE Transactions on Power Electronics, 2018, 33, 5160-5170.	5.4	23
56	An Improved Reduced Complexity Model Predictive Current Controller for Grid-Connected Four-Leg Multilevel Inverter. IEEE Transactions on Industry Applications, 2020, 56, 498-506.	3.3	22
57	Comprehensive power management scheme for the intelligent operation of photovoltaic battery based hybrid microgrid system. IET Renewable Power Generation, 2020, 14, 1688-1698.	1.7	22
58	Analysis and comparative study of pulsating current of fuel cells by inverter load with different power converter topologies. International Journal of Hydrogen Energy, 2011, 36, 15018-15028.	3.8	21
59	Recursive Estimation-Based Maximum Power Extraction Technique for a Fuel Cell Power Source Used in Vehicular Applications. IEEE Transactions on Power Electronics, 2013, 28, 4636-4643.	5.4	21
60	Current Equalization in Photovoltaic Strings With Module Integrated Ground-Isolated Switched Capacitor DC-DC Converters. IEEE Journal of Photovoltaics, 2014, 4, 669-678.	1.5	21
61	Denoising electrical signal via Empirical Mode Decomposition. , 2007, , .		19
62	Hybrid Control of a Boost Converter Operating in Discontinuous Current Mode. , 0, , .		18
63	Design and development of a low-cost spirometer with an embedded web server. International Journal of Biomedical Engineering and Technology, 2008, 1, 439.	0.2	18
64	Analysis and design of a ground isolated switched capacitor DC-DC converter. , 2010, , .		18
65	Controller Area Network (CAN) based smart protection scheme for Solar PV, fuel cell, Ultra-Capacitor and wind energy system based microgrid. , 2012, , .		18
66	Reconfigurable hierarchical control of a microgrid developed with PV, wind, micro-hydro, fuel cell and ultra-capacitor. , 2013, , .		18
67	Novel boost-SEPIC type interleaved dc-dc converter for low-voltage bipolar dc microgrid-tied solar pv applications. , 2015, , .		18
68	An Active Damping Technique for PI and Predictive Controllers of an Interlinking Converter in an Islanded Hybrid Microgrid. IEEE Transactions on Power Electronics, 2021, 36, 5521-5529.	5.4	18
69	A low cost, light weight and accurate photovoltaic emulator. , 2011, , .		17
70	Fuzzy Integration of Support Vector Regression Models for Anticipatory Control of Complex Energy Systems. International Journal of Monitoring and Surveillance Technologies Research, 2014, 2, 26-40.	0.3	17
71	Exact maximum power point tracking of partially shaded PV strings based on current equalization concept. , 2012, , .		16
72	An energy efficient and environment friendly elevator system using ultracapacitor and fuel cell with power factor correction. , 2013, , .		16

#	ARTICLE	IF	CITATIONS
73	Internal model control of dc-dc boost converter exhibiting non-minimum phase behavior. , 2014, , .		16
74	Mitigation of voltage unbalance in a low voltage bipolar DC microgrid using a boost-SEPIC type interleaved dc-dc compensator. , 2016, , .		16
75	An Advanced Voltage Support Scheme Considering the Impact of Zero-Sequence Voltage Under Microgrid Faults Using Model Predictive Control. IEEE Transactions on Industrial Electronics, 2020, 67, 8957-8968.	5.2	15
76	LabVIEW based emulation of Photovoltaic array to study maximum power point tracking algorithms. , 2012, , .		14
77	A novel, high efficiency, high gain, front end DC-DC converter for low input voltage solar photovoltaic applications. , 2012, , .		14
78	High gain, high efficiency bi-directional DC-DC converter for battery charging applications in stand-alone Photo-Voltaic systems. , 2013, , .		14
79	Closed loop control of novel transformer-less inverter topology for single phase grid connected photovoltaic system. , 2016, , .		14
80	Hybrid Energy Storage System Based on a Novel Reduced Rating Multi-Input Converter. IEEE Transactions on Power Electronics, 2020, 35, 12133-12142.	5.4	14
81	A Voltage-Zone Based Power Management Scheme With Seamless Power Transfer Between PV-Battery for OFF-Grid Stand-Along System. IEEE Transactions on Industry Applications, 2021, 57, 754-763.	3.3	14
82	A Novel Control Strategy to Achieve SOC Balancing for Batteries in a DC Microgrid Without Droop Control. IEEE Transactions on Industry Applications, 2021, 57, 4196-4206.	3.3	14
83	Advance control scheme and operating modes for large capacity centralised PV-grid systems to overcome penetration issues. , 2011, , .		13
84	Three-level NPC inverter with novel voltage equalization for PV grid interface suitable for partially shaded conditions. , 2013, , .		13
85	A photovoltaic power control algorithm covering complete range. , 2013, , .		13
86	On the control and design issues of single phase transformerless inverters for photovoltaic applications. , 2014, , .		13
87	Maximum Power Extraction From Series-Connected Fuel Cell Stacks by the Current Compensation Technique. IEEE Transactions on Power Electronics, 2015, 30, 582-589.	5.4	13
88	Novel Dual Active Bridge Based Multi Port Converter for Interfacing Hybrid Energy Storage Systems in Electric Vehicles. , 2019, , .		13
89	Analysis of Terminal Voltage in Single-Phase Extended Three-Phase Transformerless PV Inverter Topologies. IEEE Journal of Photovoltaics, 2020, 10, 226-235.	1.5	13
90	Dual Active Bridge Based Reduced Stage Multiport DC/AC Converter for PV-Battery Systems. IEEE Transactions on Industry Applications, 2022, 58, 2341-2351.	3.3	13

#	ARTICLE	IF	CITATIONS
91	Novel Switched Capacitor Boost Inverter Configuration for Three-Phase Induction Motor Driven Home Appliances. IEEE Transactions on Industry Applications, 2021, 57, 1450-1458.	3.3	12
92	Novel control scheme to reduce the effect of intermittent solar radiation on the grid connected PV system power output without losing MPPT. , 2012, , .		11
93	Anticipatory monitoring and control of complex energy systems using a fuzzy based fusion of support vector regressors. , 2014, , .		11
94	A Novel Single-Phase T-Type PV Inverter with Improved DC Utilization. , 2018, , .		11
95	Novel Three-Phase H10 Inverter Topology With Zero or Constant Common-Mode Voltage for Three-Phase Induction Motor Drive Applications. IEEE Transactions on Industrial Electronics, 2022, 69, 7522-7525.	5.2	11
96	Estimating Illumination Chromaticity via Kernel Regression. , 2006, , .		10
97	Apportioning and mitigation of losses in a Flywheel Energy Storage system. , 2013, , .		10
98	Implementation of an internal model controller with anti-reset windup compensation for output voltage tracking of a non-minimum phase dc-dc boost converter using FPGA. , 2016, , .		10
99	Wireless Online Position Monitoring of Manual Valve Types for Plant Configuration Management in Nuclear Power Plants. IEEE Sensors Journal, 2017, 17, 311-322.	2.4	10
100	An Unconstrained Voltage Support Scheme for Distributed Generation Connected to Resistive-Inductive Grid Under Unbalanced Conditions. IEEE Transactions on Industry Applications, 2021, 57, 4253-4262.	3.3	10
101	Switched Capacitor dc-dc converter based maximum power point tracking of a PV source for nano satellite application. , 2010, , .		9
102	Novel control scheme for high power centralized PV-grid system to realize functionalities of AVR and governor as in conventional generators. , 2011, , .		9
103	A control strategy to reduce the effect of intermittent solar radiation and wind velocity in the hybrid photovoltaic/wind SCIG system without losing MPPT. , 2012, , .		9
104	A high gain dc-dc converter with voltage multiplier. , 2013, , .		9
105	A Novel Dual-Winding BLDC Generatorâ€“Buck Converter Combination for Enhancement of the Harvested Energy From a Flywheel. IEEE Transactions on Industrial Electronics, 2016, 63, 7563-7573.	5.2	9
106	Terminal voltage analysis for the transformerless PV inverter topologies in a singleâ€“phase system. IET Renewable Power Generation, 2019, 13, 2723-2739.	1.7	9
107	Optimal Placement of Constant Power Loads at Different Buses of a DC Microgrid Ensuring Maximum Stability Margins. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 510-519.	3.7	9
108	Dual Photoionization Source-Based Differential Mobility Sensor for Trace Gas Detection in Human Breath. IEEE Sensors Journal, 2015, 15, 4899-4904.	2.4	8

#	ARTICLE	IF	CITATIONS
109	A Novel Voltage-Zone based power management scheme for PV- Battery based Standalone System. , 2018, , .		8
110	Switched capacitor DC-DC converter based current equalization scheme for maximum power extraction from partially shaded PV modules without bypass diodes. , 2012, , .		7
111	Single phase 9 level grid connected inverter for photovoltaic applications. , 2013, , .		7
112	A novel technique for optimising harmonics and reactive power with load balancing under nonsinusoidal supply and unbalanced load conditions. , 0, , .		6
113	Hybrid Control of a Tri-state Boost Converter. , 2006, , .		6
114	Design and implementation of communication and control architecture for solar PV based microgrid supported by PEM Fuel Cell based auxiliary source. , 2011, , .		6
115	PV Fed high efficiency, high voltage gain DC-DC converter for micro-inverter applications. , 2013, , .		6
116	A new control technique to enhance the stability of a DC microgrid and to reduce battery current ripple during the charging of plug-in electric vehicles. , 2015, , .		6
117	Design and development of Controller Area Network based communication architecture for power sharing in a DC microgrid. , 2016, , .		6
118	A Multi Input Converter for Interfacing Battery and Supercapacitor to the Load. , 2018, , .		6
119	A Novel Three-Phase Induction Motor Drive for Domestic Fan Application with Improved Reliability. , 2018, , .		6
120	A Novel Per Unit (P.U.) Integer Format Applied to the Control of a Grid-Tied Solar PV Inverter. IEEE Transactions on Industrial Informatics, 2022, 18, 735-743.	7.2	6
121	A New Three-Phase Inverter Topology for Reducing the $\frac{dv}{dt}$ and Peak-to-Peak Value of Common Mode Voltage. IEEE Transactions on Industrial Electronics, 2022, 69, 11979-11986.	5.2	6
122	A novel and universal model for accurate prediction of PV module characteristics for power optimization under various design layouts and dynamic environmental conditions. , 2012, , .		5
123	Model Predictive Control for Flexible Reduction of Active Power Oscillation in Grid-tied Multilevel Inverters under Unbalanced and Distorted Microgrid Conditions. , 2019, , .		5
124	A self-switched virtual impedance based stabilization method for a droop controlled DC microgrid with Constant Power Loads and input load filters. , 2016, , .		5
125	Dual Active Bridge based Micro-Inverter for Standalone Renewable Energy Systems with Low DC Link Capacitance. , 2020, , .		5
126	Taguchi Based Performance and Reliability Improvement of an Ion Chamber Amplifier for Enhanced Nuclear Reactor Safety. IEEE Transactions on Nuclear Science, 2008, 55, 2303-2314.	1.2	4

#	ARTICLE	IF	CITATIONS
127	Characterization and modeling of flexible photovoltaic modules for portable power applications. , 2009, , .		4
128	A modified control strategy for centralized PV - grid systems for assisting dynamic stability to overcome penetration issues. , 2012, , .		4
129	Novel self balancing single phase asymmetric 9 level grid connected inverter for photovoltaic applications. , 2013, , .		4
130	Novel multi-input solar PV topologies for 1- I^2 and 3- I^2 stand alone applications to mitigate the effects of partial shading. , 2013, , .		4
131	Comparison of model based MPPT and exact MPPT for current equalization in partially shaded PV strings. , 2013, , .		4
132	Development of asset fault signatures for Prognostic and Health Management in the nuclear industry. , 2014, , .		4
133	Control of fuel cell and electrolyzer based hydrogen storage system with ultra-capacitor for voltage stability and enhanced transient stability of a DC micro grid. , 2018, , .		4
134	An Unconstrained Voltage Support Scheme for Distributed Generation Connected to Resistive-Inductive Grid under Unbalanced Conditions. , 2019, , .		4
135	A New 1- I^2 , Seventeen Level Inverter Topology With Less Number of Power Devices for Renewable Energy Application. <i>Frontiers in Energy Research</i> , 2020, 8, .	1.2	4
136	A Modified 2-level Three-Phase Inverter Topology with Common Mode Voltage Performance of a 3-level Inverter. , 2021, , .		4
137	Comparison of Mode Switched Controllers for a Pseudo Continuous Current Mode Boost Converter. , 2006, , .		3
138	Optimization of Operational Energy Cost in a Hybrid Distributed Generation System. , 2008, , .		3
139	Dynamic power control and performance analysis of Phosphoric Acid Fuel Cell - Battery hybrid system. , 2012, , .		3
140	A new low cost and high efficiency cascaded half-bridge multilevel inverter with reduced number of switches. , 2014, , .		3
141	Design considerations for a PM-BLDC machine for flywheel energy storage applications. , 2015, , .		3
142	Advanced maximum power point tracking scheme for centralized inverters for large solar photovoltaic power plants. , 2016, , .		3
143	Optimal Placement of Distributed Energy Resources in a DC Microgrid with Constant Power Loads to Minimize Bus Voltage Deviations and Line Losses. , 2019, , .		3
144	Analysis and Control of Grid Tied Modular Multilevel Converter under Unbalanced PV Power Generation and Unbalanced Grid Conditions. , 2019, , .		3

#	ARTICLE	IF	CITATIONS
145	New self-balancing 7-level inverter with coupled inductors for grid-connected renewable energy systems with voltage boosting capability. IET Power Electronics, 2020, 13, 899-908.	1.5	3
146	Current Fed Dual Active Bridge based Multi-Port DC/AC Converter for Standalone Solar PV fed Systems with Battery Backup. , 2020, , .		3
147	Enhancement of Line-to-Line Voltage Support During Asymmetrical Microgrid Faults Using a Four-Leg Three-Level Inverter. IEEE Transactions on Smart Grid, 2022, 13, 1298-1309.	6.2	3
148	Ion mobility sensor based on photo-ionization light source for trace gas sensing. , 2010, , .		2
149	High gain, high efficiency DC-DC converter with soft switching feature. , 2012, , .		2
150	High-gain boost converter with coupled inductor and switched capacitor for low voltage renewable energy sources. , 2014, , .		2
151	Dynamic optimization of speed pattern for efficiency improvement in elevator systems. , 2014, , .		2
152	An Advanced Model Predictive Controller for Grid-Tied Four-Leg Multilevel Inverters. , 2018, , .		2
153	A Novel Four Terminal Integrated Submodule Modular Multilevel Converter. , 2018, , .		2
154	Novel Voltage Balancing Techniques for Modular Multilevel PV Inverters. , 2018, , .		2
155	A Novel Control Strategy to Share Power among Dispatchable Battery Sources and Achieve SOC Balancing without a Droop Control in a DC MicroGrid. , 2019, , .		2
156	Improved Set-Point Tracking and Disturbance Rejection of DC-DC Converters Using Voltage-Mode Digital Control. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 3276-3286.	3.7	2
157	An Inertia Emulation Scheme using a Non-linear Backstepping Controller to Enhance the DC Bus Voltage Stiffness of a Grid Tied DC Microgrid. , 2021, , .		2
158	A Novel Single-Phase Switched-Capacitor Based 5-level Inverter Topology Featuring Voltage Boosting Capability and Common Mode Voltage Reduction. , 2021, , .		2
159	Characterization of ZVS Behavior and Optimal Operating Point for Three-Port Current Fed Dual Active Bridge Interlinking Converter. , 2021, , .		2
160	Prediction of the performance of an ion chamber amplifier under $\hat{\gamma}$ radiation. Nuclear Engineering and Design, 2005, 235, 1373-1387.	0.8	1
161	Novel high gain topologies for ac-dc conversion with power factor correction and dc link capacitor reduction. , 2016, , .		1
162	Comparative evaluation of digital control algorithms for DC-DC boost converter exhibiting inverse response. , 2016, , .		1

#	ARTICLE	IF	CITATIONS
163	Low Voltage Ride-Through Capability of a Novel Grid Connected Inverter Suitable for Transformerless solar PV grid interface. , 2018, , .		1
164	Improved Modular Multilevel Converter with Output Voltage Boosting Capability for Medium Voltage DC Distribution System. , 2019, , .		1
165	A Novel Virtual Inertia Implementation Scheme using Model Predictive Control for Enhancing the Voltage Stiffness of a Grid Tied DC Microgrid. , 2019, , .		1
166	Experimental Evaluation of Internal Model Control for 3 rd Grid-tied Solar PV Inverter. , 2020, , .		1
167	Common Mode Voltage Elimination in Single-Phase Multilevel Inverter using a 3rd Leg. , 2021, , .		1
168	Alternative emergency communication channel through television cable. , 2009, , .		0
169	Model based distributed MPPT using current equalization for contoured flexible PV strings. , 2013, , .		0
170	Development of UV-ionization based trace differential mobility sensor for acetone and hexane. , 2014, 2014, 3476-9.		0
171	Novel 1- π ; multilevel current source inverter for balanced/unbalanced PV sources. , 2014, , .		0
172	A Novel Solar PV Micro-Grid Connected System with Battery and Ultra Capacitor Support for Fast Changing Environmental Conditions. , 2018, , .		0
173	Comparative Experimental Study of Predictive and Resonant Controllers of Grid-Tied Inverter under Unbalanced Grid Conditions. , 2019, , .		0
174	Numerical and Experimental Vibration Analysis of an Additive Manufactured Sensor Mounting Unit for a Wireless Valve Position Indication Sensor System. Nuclear Technology, 2022, 208, 468-483.	0.7	0