

Prasad N Enjeti

List of Publications by Year in descending order

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127
papers

6,184
citations

136950

32
h-index

223800

46
g-index

127
all docs

127
docs citations

127
times ranked

4420
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Performance Adaptive Perturb and Observe MPPT Technique for Photovoltaic-Based Microgrids. IEEE Transactions on Power Electronics, 2011, 26, 1010-1021.	7.9	743
2	Survey on Fault-Tolerant Techniques for Power Electronic Converters. IEEE Transactions on Power Electronics, 2014, 29, 6319-6331.	7.9	459
3	Shunt Active-Power-Filter Topology Based on Parallel Interleaved Inverters. IEEE Transactions on Industrial Electronics, 2008, 55, 1175-1189.	7.9	312
4	Analysis and design of electronic transformers for electric power distribution system. IEEE Transactions on Power Electronics, 1999, 14, 1133-1141.	7.9	295
5	A high-performance single-phase rectifier with input power factor correction. IEEE Transactions on Power Electronics, 1996, 11, 311-317.	7.9	262
6	Sharing of nonlinear load in parallel-connected three-phase converters. IEEE Transactions on Industry Applications, 2001, 37, 1817-1823.	4.9	262
7	An improved inverter output filter configuration reduces common and differential modes dv/dt at the motor terminals in PWM drive systems. IEEE Transactions on Power Electronics, 1998, 13, 1135-1143.	7.9	236
8	A new single-phase to three-phase converter with active input current shaping for low cost AC motor drives. IEEE Transactions on Industry Applications, 1993, 29, 806-813.	4.9	226
9	Wide-Scale Adoption of Photovoltaic Energy: Grid Code Modifications Are Explored in the Distribution Grid. IEEE Industry Applications Magazine, 2015, 21, 21-31.	0.4	220
10	Design of a Wide Input Range DC-DC Converter With a Robust Power Control Scheme Suitable for Fuel Cell Power Conversion. IEEE Transactions on Industrial Electronics, 2008, 55, 1247-1255.	7.9	215
11	Design considerations for an inverter output filter to mitigate the effects of long motor leads in ASD applications. IEEE Transactions on Industry Applications, 1997, 33, 1138-1145.	4.9	205
12	Multilevel inverter by cascading industrial VSI. IEEE Transactions on Industrial Electronics, 2002, 49, 832-838.	7.9	160
13	Filtering techniques to minimize the effect of long motor leads on PWM inverter-fed AC motor drive systems. IEEE Transactions on Industry Applications, 1996, 32, 919-926.	4.9	150
14	Polyphase transformer arrangements with reduced kVA capacities for harmonic current reduction in rectifier-type utility interface. IEEE Transactions on Power Electronics, 1996, 11, 680-690.	7.9	146
15	A Three-Phase Current-Fed DC/DC Converter With Active Clamp for Low-DC Renewable Energy Sources. IEEE Transactions on Power Electronics, 2008, 23, 2784-2793.	7.9	142
16	Multilevel Medium-Frequency Link Inverter for Utility Scale Photovoltaic Integration. IEEE Transactions on Power Electronics, 2015, 30, 3674-3684.	7.9	138
17	Multiple-Module High-Gain High-Voltage DC-DC Transformers for Offshore Wind Energy Systems. IEEE Transactions on Industrial Electronics, 2011, 58, 1877-1886.	7.9	135
18	Development of an equivalent circuit model of a fuel cell to evaluate the effects of inverter ripple current. Journal of Power Sources, 2006, 158, 1324-1332.	7.8	122

#	ARTICLE	IF	CITATIONS
19	Advanced Electric Vehicle Fast-Charging Technologies. <i>Energies</i> , 2019, 12, 1839.	3.1	115
20	A Modular Fuel Cell, Modular DC-DC Converter Concept for High Performance and Enhanced Reliability. <i>IEEE Transactions on Power Electronics</i> , 2009, 24, 1437-1443.	7.9	114
21	A Carrier-Based PWM Method With Optimal Switching Sequence for a Multilevel Four-Leg Voltage-Source Inverter. <i>IEEE Transactions on Industry Applications</i> , 2008, 44, 1239-1248.	4.9	107
22	Wind Turbine Generator-Battery Energy Storage Utility Interface Converter Topology With Medium-Frequency Transformer Link. <i>IEEE Transactions on Power Electronics</i> , 2014, 29, 4146-4155.	7.9	98
23	Evaluation of a Multilevel Cascaded-Type Dynamic Voltage Restorer Employing Discontinuous Space Vector Modulation. <i>IEEE Transactions on Industrial Electronics</i> , 2010, 57, 2398-2410.	7.9	77
24	A Fault-Tolerant Three-Phase Adjustable Speed Drive Topology With Active Common-Mode Voltage Suppression. <i>IEEE Transactions on Power Electronics</i> , 2015, 30, 2828-2839.	7.9	75
25	Suggested grid code modifications to ensure wide-scale adoption of photovoltaic energy in distributed power generation systems. , 2013, , .		62
26	Comparison of Active Power Decoupling Methods for High-Power-Density Single-Phase Inverters Using Wide-Bandgap FETs for Google Little Box Challenge. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2016, 4, 790-798.	5.4	62
27	Fuel-cell powered uninterruptible power supply systems: Design considerations. <i>Journal of Power Sources</i> , 2006, 157, 311-317.	7.8	55
28	A bidirectional series resonant matrix converter topology for electric vehicle DC fast charging. , 2015, , .		55
29	A Review of Current Research Trends in Power-Electronic Innovations in Cyber-Physical Systems. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021, 9, 5146-5163.	5.4	48
30	Series Voltage Regulator for a Distribution Transformer to Compensate Voltage Sag/Swell. <i>IEEE Transactions on Industrial Electronics</i> , 2017, 64, 4501-4510.	7.9	42
31	A matrix converter-based topology for high power electric vehicle battery charging and V2G application. , 2012, , .		40
32	Isolated AC-DC Converter Using Medium Frequency Transformer for Off-Shore Wind Turbine DC Collection Grid. <i>IEEE Transactions on Industrial Electronics</i> , 2017, 64, 8939-8947.	7.9	38
33	An advanced fuel cell simulator. , 0, , .		36
34	A Family of New Multiport Power-Sharing Converter Topologies for Large Grid-Connected Fuel Cells. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2014, 2, 962-971.	5.4	36
35	An Integrated Solid-State Transformer With High-Frequency Isolation for EV Fast-Charging Applications. <i>IEEE Journal of Emerging and Selected Topics in Industrial Electronics</i> , 2020, 1, 46-56.	3.9	34
36	An Experimental Evaluation of the Effects of Ripple Current Generated by the Power Conditioning Stage on a Proton Exchange Membrane Fuel Cell Stack. <i>Journal of Materials Engineering and Performance</i> , 2004, 13, 257-264.	2.5	33

#	ARTICLE	IF	CITATIONS
37	A Novel Three-Phase High Power Current-Fed DC/DC Converter with Active Clamp for Fuel Cells. , 2007, , .		30
38	Analysis and Design of Smart PV Modules. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2014, 2, 451-459.	5.4	30
39	A Medium-Voltage DC-Collection Grid for Large-Scale PV Power Plants With Interleaved Modular Multilevel Converter. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 3434-3443.	5.4	30
40	Information Theoretically Secure, Enhanced Johnson Noise Based Key Distribution over the Smart Grid with Switched Filters. PLoS ONE, 2013, 8, e70206.	2.5	30
41	Medium voltage power distribution architecture with medium frequency isolation transformer for data centers. , 2014, , .		29
42	A New Wind Turbine Interface to MVdc Collection Grid With High-Frequency Isolation and Input Current Shaping. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2015, 3, 967-976.	5.4	29
43	Solid-State Transformer for Grid Interface of High-Power Multipulse Rectifiers. IEEE Transactions on Industry Applications, 2018, 54, 5504-5511.	4.9	27
44	Analysis and mitigation of common mode voltages in photovoltaic power systems. , 2011, , .		23
45	Predicting capacitor reliability in a module-integrated photovoltaic inverter using stress factors from an environmental usage model. , 2010, , .		21
46	Reduced Active Switch Front-End Multipulse Rectifier With Medium-Frequency Transformer Isolation. IEEE Transactions on Power Electronics, 2017, 32, 7458-7468.	7.9	16
47	A fault-tolerant T-type three-level inverter system. , 2014, , .		15
48	A new medium-voltage energy storage converter topology with medium-frequency transformer isolation. , 2012, , .		13
49	Analysis and PWM control of three-phase boost-derived hybrid converter. , 2014, , .		13
50	Simplified medium/high frequency transformer isolation approach for multi-pulse diode rectifier front-end adjustable speed drives. , 2015, , .		13
51	A New Active Output Filter (AOF) for Variable Speed Constant Frequency (VSCF) Power System in Aerospace Applications. IEEE Transactions on Power Electronics, 2018, 33, 1087-1093.	7.9	13
52	A New Medium Voltage DC Collection Grid for Large Scale PV Power Plants with SiC Devices. , 2018, , .		12
53	Power Electronics Intelligence at the Network Edge (PINE)â€”An Approach to Interface PV and Battery Energy Storage Systems at the Grid Edge. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 5219-5227.	5.4	11
54	Medium voltage AC collection grid for large scale photovoltaic plants based on medium frequency transformers. , 2014, , .		10

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55	Fuel Cell Based Battery-Less UPS System. , 2008, , .		9
56	A new wind turbine generator / battery energy storage utility interface converter topology with medium-frequency transformer. , 2013, , .		9
57	A new delta inverter system for grid integration of large scale photovoltaic power plants. , 2014, , .		9
58	An Active Detection Scheme for Sensor Spoofing in Grid-tied PV Systems. , 2021, , .		9
59	A New Compensation Method for High Current Non-Linear Loads. , 2006, , .		8
60	An active damping technique for a current source inverter employing a virtual negative inductance. , 2010, , .		8
61	New medium-voltage Adjustable Speed Drive (ASD) topologies with medium-frequency transformer isolation. , 2012, , .		8
62	Smart PV modules — Design considerations. , 2012, , .		8
63	Analysis and design of active inductor as DC-link reactor for lightweight adjustable speed drive systems. , 2014, , .		8
64	A Direct Switch-Mode Three-Phase AC to DC Rectifier with High-Frequency Isolation for Fast EV Battery Chargers. , 2019, , .		8
65	A Medium-Voltage Matrix Converter Topology for Wind Power Conversion with Medium Frequency Transformers. Journal of Power Electronics, 2014, 14, 1166-1177.	1.5	8
66	Detection of Cyber Attacks in Renewable-rich Microgrids Using Dynamic Watermarking. , 2020, , .		8
67	An improved offshore wind turbine to MVDC grid interface using high frequency resonant isolation and input power factor control. , 2015, , .		7
68	A Dual-loop Digital Controller for Switching DC-DC converters. , 2006, , .		6
69	Analysis and design of smart PV modules. , 2013, , .		6
70	A novel medium-frequency-transformer isolated matrix converter for wind power conversion applications. , 2014, , .		6
71	A new wind turbine interface to MVDC grid with high frequency isolation and input current shaping. , 2014, , .		6
72	Medium-voltage (MV) matrix converter topology for wind power conversion using medium-frequency transformer (MFT) isolation. , 2014, , .		6

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73	Adding capacity to an existing electric power distribution network using a solid state transformer system. , 2015, , .		6
74	A new Interconnected Modular Multilevel Converter (IMMC) with sinusoidal voltage output suitable for high performance AC drives. , 2017, , .		6
75	Power electronics intelligence at the network edge (PINE). , 2017, , .		6
76	A New Modular Micro-inverter with Sinusoidal Output Voltage Using GaN Switches for PV Modules. , 2018, , .		6
77	A three-phase current-fed dc/dc converter with a three-leg high frequency transformer for fuel cells. Journal of Power Sources, 2008, 182, 270-277.	7.8	5
78	3-Phase AC-DC converter topologies with higher frequency transformer isolation for utility grid interface. , 2014, , .		5
79	Assessing Impact of Maker Space on Student Learning. , 0, , .		5
80	Peer-to-peer Energy Transaction in Microgrids with Power Electronics Enabled Angle Droop Control. , 2018, , .		5
81	A Single Stage Transformer-less Micro Inverter with Integrated Battery Storage System for Residential Applications. , 2019, , .		5
82	Vertically Integrated Projects (VIP) Programs: Multidisciplinary Projects with Homes in Any Discipline. , 0, , .		5
83	Microgrid Integration in Smart Low-Voltage Distribution Systems. IEEE Power Electronics Magazine, 2022, 9, 61-66.	0.7	5
84	High power density adjustable speed drive topology with medium frequency transformer isolation. , 2015, , .		4
85	High power density single phase inverter using GaN FETS and active power decoupling for Google little box challenge. , 2015, , .		4
86	A new active output filter (AOF) for variable speed constant frequency (VSCF) power system in aerospace applications. , 2015, , .		4
87	Towards a smart distribution transformer for smart grid. , 2015, , .		4
88	A robust controller for medium voltage AC collection grid for large scale Photovoltaic plants based on medium frequency transformers. , 2016, , .		4
89	A new high power density modular multilevel DC-DC converter with localized voltage balancing control for arbitrary number of levels. , 2016, , .		4
90	A new approach for increasing energy harvest in large scale PV plants employing a novel voltage balancing topology. , 2017, , .		4

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91	A utility scale battery energy storage system for intermittency mitigation in multilevel medium voltage photovoltaic system. , 2015, , .		3
92	A modular three phase power factor correction (PFC) approach with two single phase PFC stages and an electronic phase shifter. , 2015, , .		3
93	A power sharing scheme for series connected offshore wind turbines in a medium voltage DC collection grid. , 2016, , .		3
94	Reduced active switch AC to DC rectifier with high frequency isolation for electric vehicle chargers. , 2016, , .		3
95	Power Electronics Intelligence at the Grid Edge - Enables Energy Budgeting. , 2018, , .		3
96	Decision making framework for solar photovoltaic power conditioning unit topologies using Six Sigma. , 2012, , .		2
97	Phase locked loop with fast tracking over wide stability range under grid faults. , 2014, , .		2
98	Active output filter under nonlinear load condition for solar powered unmanned aircraft system. , 2017, , .		2
99	A Dual-Phase Output 4-Leg Inverter with Active Decoupling and Integrated Power Optimizer for Off-Grid Applications. , 2018, , .		2
100	An Architecture for Level-3 EV Battery Charger Stations Using Integrated Solid State Transformer (I-SST). , 2020, , .		2
101	Technology-Based Support for Quality Teaching and Learning at TAMUQ. International Journal of Emerging Technologies in Learning, 2010, 5, 51.	1.3	2
102	Preparing Future Engineering Faculty: Influences of a Professional Development Seminar on Doctoral Students' Understanding of Faculty Work. , 0, , .		2
103	STEADY STATE AND TRANSIENT BEHAVIOR OF PWM INVERTER FED INDUCTION MOTORS. Electric Power Components and Systems, 1989, 16, 1-13.	0.1	1
104	An advanced PWM strategy to improve efficiency and voltage transfer ratio of three-phase isolated boost dc/dc converter. IEEE Applied Power Electronics Conference and Exposition, 2008, , .	0.0	1
105	A Modular Fuel Cell, Modular DC-DC Converter Concept for High Performance and Enhanced Reliability. ECS Transactions, 2008, 12, 603-608.	0.5	1
106	Medium voltage AC-AC adapter using multilevel capacitor clamped buck converter. , 2016, , .		1
107	Advanced active output filter for low acoustic noise adjustable speed drive (ASD) system. , 2016, , .		1
108	A New Two Stage Differential Mode Power Converter for Large Scale PV Plants. , 2018, , .		1

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109	A Transformer-less Hybrid PV Inverter with Integrated Battery Energy Storage. , 2020, , .		1
110	A Direct Three-Phase AC to DC Rectifier with a High-Frequency Open Delta Transformer Isolation. , 2020, , .		1
111	A Modular Three-Phase Diode Rectifier with High-Frequency Isolation and Sinusoidal Input Currents. , 2021, , .		1
112	Detection of Cyber Attacks in Grid-tied PV Systems Using Dynamic Watermarking. , 2022, , .		1
113	A Bidirectional Three Phase Solid-State Transformer for Utility Interface of Energy Storage Devices. , 2022, , .		1
114	Acupuncture: Occidental and Oriental Viewpoints. IEEE Engineering in Medicine and Biology Magazine, 1986, 5, 26-30.	0.8	0
115	New Techniques to Reject DC-Link Voltage Ripple in PWM Inverters. IETE Journal of Research, 1991, 37, 139-151.	2.6	0
116	A High Density Power Converter for Remotely Operated Load. , 2007, , .		0
117	Transient Mitigation Methods on ASDs. , 2007, , 103-128.		0
118	A dual connected passive filter scheme for PWM converters. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	0
119	Decision making framework for photovoltaic cell technologies using six sigma. , 2012, , .		0
120	Modeling and analysis of a micro-inverter configuration for high power phosphoric acid fuel cell application. , 2013, , .		0
121	A component-minimized dual-output multilevel converter and its applications. , 2013, , .		0
122	Exploring common mode voltage stress and circulating currents in offshore wind turbine to MVDC collection grid interfaces. , 2015, , .		0
123	Plenary speaker. , 2017, , .		0
124	Congratulations to the Winners of the First P3 Talk Video Competition [Society News]. IEEE Power Electronics Magazine, 2019, 6, 74-75.	0.7	0
125	Analysis and Comparison of Indirect Power in DC-AC or AC-DC Topologies by Quasi-static DC-DC Modeling. , 2019, , .		0
126	A Medium Voltage DC Collection Grid for Large Scale PV Power Plant with SCR Converter and Integrated Solid-State Transformer (SST). , 2019, , .		0

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127	A Single-Phase GaN Totem-Pole PFC with Active Power Decoupling. , 2021, , .		0