# Prasad N Enjeti

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 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 | Detection of Cyber Attacks in Grid-tied PV Systems Using Dynamic Watermarking. , 2022, , . | | 1 |
| 2 | A Bidirectional Three Phase Solid-State Transformer for Utility Interface of Energy Storage Devices. , 2022, , . | | 1 |
| 3 | Microgrid Integration in Smart Low-Voltage Distribution Systems. IEEE Power Electronics Magazine, 2022, 9, 61-66. | 0.7 | 5 |
| 4 | 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 |
| 5 | A Single-Phase GaN Totem-Pole PFC with Active Power Decoupling. , 2021, , . | | 0 |
| 6 | A Review of Current Research Trends in Power-Electronic Innovations in Cyberâ€"Physical Systems. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 5146-5163. | 5.4 | 48 |
| 7 | An Active Detection Scheme for Sensor Spoofing in Grid-tied PV Systems. , 2021, , . | | 9 |
| 8 | A Modular Three-Phase Diode Rectifier with High-Frequency Isolation and Sinusoidal Input Currents. , 2021, , . | | 1 |
| 9 | 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 |
| 10 | An Architecture for Level-3 EV Battery Charger Stations Using Integrated Solid State Transformer (I-SST). , 2020, , . | | 2 |
| 11 | A Transformer-less Hybrid PV Inverter with Integrated Battery Energy Storage. , 2020, , . | | 1 |
| 12 | A Direct Three-Phase AC to DC Rectifier with a High-Frequency Open Delta Transformer Isolation. , 2020, , . | | 1 |
| 13 | An Integrated Solid-State Transformer With High-Frequency Isolation for EV Fast-Charging Applications. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2020, 1, 46-56. | 3.9 | 34 |
| 14 | Detection of Cyber Attacks in Renewable-rich Microgrids Using Dynamic Watermarking. , 2020, , . | | 8 |
| 15 | A Single Stage Transformer-less Micro Inverter with Integrated Battery Storage System for Residential Applications. , 2019, , . | | 5 |
| 16 | A Direct Switch-Mode Three-Phase AC to DC Rectifier with High-Frequency Isolation for Fast EV Battery Chargers. , 2019, , . | | 8 |
| 17 | Advanced Electric Vehicle Fast-Charging Technologies. Energies, 2019, 12, 1839. | 3.1 | 115 |
| 18 | Congratulations to the Winners of the First P3 Talk Video Competition [Society News]. IEEE Power Electronics Magazine, 2019, 6, 74-75. | 0.7 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Analysis and Comparison of Indirect Power in DC-AC or AC-DC Topologies by Quasi-static DC-DC Modeling. , 2019, , . | | 0 |
| 20 | A Medium Voltage DC Collection Grid for Large Scale PV Power Plant with SCR Converter and Integrated Solid-State Transformer (SST). , 2019, , . | | 0 |
| 21 | Solid-State Transformer for Grid Interface of High-Power Multipulse Rectifiers. IEEE Transactions on Industry Applications, 2018, 54, 5504-5511. | 4.9 | 27 |
| 22 | 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 |
| 23 | Power Electronics Intelligence at the Grid Edge - Enables Energy Budgeting. , 2018, , . | | 3 |
| 24 | A New Two Stage Differential Mode Power Converter for Large Scale PV Plants. , 2018, , . | | 1 |
| 25 | Peer-to-peer Energy Transaction in Microgrids with Power Electronics Enabled Angle Droop Control. , 2018, , . | | 5 |
| 26 | A Dual-Phase Output 4-Leg Inverter with Active Decoupling and Integrated Power Optimizer for Off-Grid Applications. , 2018, , . | | 2 |
| 27 | A New Medium Voltage DC Collection Grid for Large Scale PV Power Plants with SiC Devices. , 2018, , . | | 12 |
| 28 | A New Modular Micro-inverter with Sinusoidal Output Voltage Using GaN Switches for PV Modules. , 2018, , . | | 6 |
| 29 | Isolated ACâ€“DC Converter Using Medium Frequency Transformer for Off-Shore Wind Turbine DC Collection Grid. IEEE Transactions on Industrial Electronics, 2017, 64, 8939-8947. | 7.9 | 38 |
| 30 | Series Voltage Regulator for a Distribution Transformer to Compensate Voltage Sag/Swell. IEEE Transactions on Industrial Electronics, 2017, 64, 4501-4510. | 7.9 | 42 |
| 31 | A new Interconnected Modular Multilevel Converter (IMMC) with sinusoidal voltage output suitable for high performance AC drives. , 2017, , . | | 6 |
| 32 | Active output filter under nonlinear load condition for solar powered unmanned aircraft system. , 2017, , . | | 2 |
| 33 | Reduced Active Switch Front-End Multipulse Rectifier With Medium-Frequency Transformer Isolation. IEEE Transactions on Power Electronics, 2017, 32, 7458-7468. | 7.9 | 16 |
| 34 | Power electronics intelligence at the network edge (PINE). , 2017, , . | | 6 |
| 35 | A new approach for increasing energy harvest in large scale PV plants employing a novel voltage balancing topology. , 2017, , . | | 4 |
| 36 | Plenary speaker. , 2017, , . | | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Comparison of Active Power Decoupling Methods for High-Power-Density Single-Phase Inverters Using Wide-Bandgap FETs for Google Little Box Challenge. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2016, 4, 790-798. | 5.4 | 62 |
| 38 | A power sharing scheme for series connected offshore wind turbines in a medium voltage DC collection grid. , 2016, , . | | 3 |
| 39 | Medium voltage AC-AC adapter using multilevel capacitor clamped buck converter. , 2016, , . | | 1 |
| 40 | Advanced active output filter for low acoustic noise adjustable speed drive (ASD) system. , 2016, , . | | 1 |
| 41 | Reduced active switch AC to DC rectifier with high frequency isolation for electric vehicle chargers. , 2016, , . | | 3 |
| 42 | A robust controller for medium voltage AC collection grid for large scale Photovoltaic plants based on medium frequency transformers. , 2016, , . | | 4 |
| 43 | A new high power density modular multilevel DC-DC converter with localized voltage balancing control for arbitrary number of levels. , 2016, , . | | 4 |
| 44 | Adding capacity to an existing electric power distribution network using a solid state transformer system. , 2015, , . | | 6 |
| 45 | High power density adjustable speed drive topology with medium frequency transformer isolation. , 2015, , . | | 4 |
| 46 | High power density single phase inverter using GaN FETS and active power decoupling for Google little box challenge. , 2015, , . | | 4 |
| 47 | A utility scale battery energy storage system for intermittency mitigation in multilevel medium voltage photovoltaic system. , 2015, , . | | 3 |
| 48 | Exploring common mode voltage stress and circulating currents in offshore wind turbine to MVDC collection grid interfaces. , 2015, , . | | 0 |
| 49 | Simplified medium/high frequency transformer isolation approach for multi-pulse diode rectifier front-end adjustable speed drives. , 2015, , . | | 13 |
| 50 | A modular three phase power factor correction (PFC) approach with two single phase PFC stages and an electronic phase shifter. , 2015, , . | | 3 |
| 51 | A bidirectional series resonant matrix converter topology for electric vehicle DC fast charging. , 2015, , . | | 55 |
| 52 | An improved offshore wind turbine to MVDC grid interface using high frequency resonant isolation and input power factor control. , 2015, , . | | 7 |
| 53 | A new active output filter (AOF) for variable speed constant frequency (VSCF) power system in aerospace applications. , 2015, , . | | 4 |
| 54 | Towards a smart distribution transformer for smart grid. , 2015, , . | | 4 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | 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 |
| 56 | 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 |
| 57 | A Fault-Tolerant Three-Phase Adjustable Speed Drive Topology With Active Common-Mode Voltage Suppression. IEEE Transactions on Power Electronics, 2015, 30, 2828-2839. | 7.9 | 75 |
| 58 | Multilevel Medium-Frequency Link Inverter for Utility Scale Photovoltaic Integration. IEEE Transactions on Power Electronics, 2015, 30, 3674-3684. | 7.9 | 138 |
| 59 | Medium voltage AC collection grid for large scale photovoltaic plants based on medium frequency transformers. , 2014, , . | | 10 |
| 60 | Analysis and design of active inductor as DC-link reactor for lightweight adjustable speed drive systems. , 2014, , . | | 8 |
| 61 | A novel medium-frequency-transformer isolated matrix converter for wind power conversion applications. , 2014, , . | | 6 |
| 62 | Analysis and PWM control of three-phase boost-derived hybrid converter. , 2014, , . | | 13 |
| 63 | A new wind turbine interface to MVDC grid with high frequency isolation and input current shaping. , 2014, , . | | 6 |
| 64 | A Family of New Multiport Power-Sharing Converter Topologies for Large Grid-Connected Fuel Cells. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2014, 2, 962-971. | 5.4 | 36 |
| 65 | Phase locked loop with fast tracking over wide stability range under grid faults. , 2014, , . | | 2 |
| 66 | Analysis and Design of Smart PV Modules. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2014, 2, 451-459. | 5.4 | 30 |
| 67 | A fault-tolerant T-type three-level inverter system. , 2014, , . | | 15 |
| 68 | Survey on Fault-Tolerant Techniques for Power Electronic Converters. IEEE Transactions on Power Electronics, 2014, 29, 6319-6331. | 7.9 | 459 |
| 69 | 3-Phase AC-DC converter topologies with higher frequency transformer isolation for utility grid interface. , 2014, , . | | 5 |
| 70 | A new delta inverter system for grid integration of large scale photovoltaic power plants. , 2014, , . | | 9 |
| 71 | Medium-voltage (MV) matrix converter topology for wind power conversion using medium-frequency transformer (MFT) isolation. , 2014, , . | | 6 |
| 72 | Wind Turbine Generatorâ€“Battery Energy Storage Utility Interface Converter Topology With Medium-Frequency Transformer Link. IEEE Transactions on Power Electronics, 2014, 29, 4146-4155. | 7.9 | 98 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Medium voltage power distribution architecture with medium frequency isolation transformer for data centers. , 2014, , . | | 29 |
| 74 | 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 |
| 75 | Modeling and analysis of a micro-inverter configuration for high power phosphoric acid fuel cell application. , 2013, , . | | 0 |
| 76 | A new wind turbine generator / battery energy storage utility interface converter topology with medium-frequency transformer. , 2013, , . | | 9 |
| 77 | Analysis and design of smart PV modules. , 2013, , . | | 6 |
| 78 | A component-minimized dual-output multilevel converter and its applications. , 2013, , . | | 0 |
| 79 | Suggested grid code modifications to ensure wide-scale adoption of photovoltaic energy in distributed power generation systems. , 2013, , . | | 62 |
| 80 | Information Theoretically Secure, Enhanced Johnson Noise Based Key Distribution over the Smart Grid with Switched Filters. PLoS ONE, 2013, 8, e70206. | 2.5 | 30 |
| 81 | New medium-voltage Adjustable Speed Drive (ASD) topologies with medium-frequency transformer isolation. , 2012, , . | | 8 |
| 82 | Decision making framework for photovoltaic cell technologies using six sigma. , 2012, , . | | 0 |
| 83 | Decision making framework for solar photovoltaic power conditioning unit topologies using Six Sigma. , 2012, , . | | 2 |
| 84 | Smart PV modules — Design considerations. , 2012, , . | | 8 |
| 85 | A new medium-voltage energy storage converter topology with medium-frequency transformer isolation. , 2012, , . | | 13 |
| 86 | A matrix converter-based topology for high power electric vehicle battery charging and V2G application. , 2012, , . | | 40 |
| 87 | High-Performance Adaptive Perturb and Observe MPPT Technique for Photovoltaic-Based Microgrids. IEEE Transactions on Power Electronics, 2011, 26, 1010-1021. | 7.9 | 743 |
| 88 | Analysis and mitigation of common mode voltages in photovoltaic power systems. , 2011, , . | | 23 |
| 89 | Multiple-Module High-Gain High-Voltage DCâ€“DC Transformers for Offshore Wind Energy Systems. IEEE Transactions on Industrial Electronics, 2011, 58, 1877-1886. | 7.9 | 135 |
| 90 | An active damping technique for a current source inverter employing a virtual negative inductance. , 2010, , . | | 8 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Evaluation of a Multilevel Cascaded-Type Dynamic Voltage Restorer Employing Discontinuous Space Vector Modulation. IEEE Transactions on Industrial Electronics, 2010, 57, 2398-2410. | 7.9 | 77 |
| 92 | Predicting capacitor reliability in a module-integrated photovoltaic inverter using stress factors from an environmental usage model. , 2010, , . | | 21 |
| 93 | Technology-Based Support for Quality Teaching and Learning at TAMUQ. International Journal of Emerging Technologies in Learning, 2010, 5, 51. | 1.3 | 2 |
| 94 | A Modular Fuel Cell, Modular DCâ€“DC Converter Concept for High Performance and Enhanced Reliability. IEEE Transactions on Power Electronics, 2009, 24, 1437-1443. | 7.9 | 114 |
| 95 | 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 |
| 96 | A Carrier-Based PWM Method With Optimal Switching Sequence for a Multilevel Four-Leg Voltage-Source Inverter. IEEE Transactions on Industry Applications, 2008, 44, 1239-1248. | 4.9 | 107 |
| 97 | Shunt Active-Power-Filter Topology Based on Parallel Interleaved Inverters. IEEE Transactions on Industrial Electronics, 2008, 55, 1175-1189. | 7.9 | 312 |
| 98 | Design of a Wide Input Range DCâ€“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 |
| 99 | 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 |
| 100 | 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 |
| 101 | A Modular Fuel Cell, Modular DC-DC Converter Concept for High Performance and Enhanced Reliability. ECS Transactions, 2008, 12, 603-608. | 0.5 | 1 |
| 102 | A dual connected passive filter scheme for PWM converters. Power Electronics Specialist Conference (PESC), IEEE, 2008, , . | 0.0 | 0 |
| 103 | Fuel Cell Based Battery-Less UPS System. , 2008, , . | | 9 |
| 104 | A Novel Three-Phase High Power Current-Fed DC/DC Converter with Active Clamp for Fuel Cells. , 2007, , . | | 30 |
| 105 | A High Density Power Converter for Remotely Operated Load. , 2007, , . | | 0 |
| 106 | Transient Mitigation Methods on ASDs. , 2007, , 103-128. | | 0 |
| 107 | A Dual-loop Digital Controller for Switching DC-DC converters. , 2006, , . | | 6 |
| 108 | Fuel-cell powered uninterruptible power supply systems: Design considerations. Journal of Power Sources, 2006, 157, 311-317. | 7.8 | 55 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | 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 |
| 110 | A New Compensation Method for High Current Non-Linear Loads. , 2006, , . | | 8 |
| 111 | An Experimental Evaluation of the Effects of Ripple Current Generated by the Power Conditioning Stage on a Proton Exchange Membrane Fuel Cell Stack. Journal of Materials Engineering and Performance, 2004, 13, 257-264. | 2.5 | 33 |
| 112 | Multilevel inverter by cascading industrial VSI. IEEE Transactions on Industrial Electronics, 2002, 49, 832-838. | 7.9 | 160 |
| 113 | Sharing of nonlinear load in parallel-connected three-phase converters. IEEE Transactions on Industry Applications, 2001, 37, 1817-1823. | 4.9 | 262 |
| 114 | Analysis and design of electronic transformers for electric power distribution system. IEEE Transactions on Power Electronics, 1999, 14, 1133-1141. | 7.9 | 295 |
| 115 | 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 |
| 116 | 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 |
| 117 | A high-performance single-phase rectifier with input power factor correction. IEEE Transactions on Power Electronics, 1996, 11, 311-317. | 7.9 | 262 |
| 118 | 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 |
| 119 | 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 |
| 120 | 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 |
| 121 | New Techniques to Reject DC-Link Voltage Ripple in PWM Inverters. IETE Journal of Research, 1991, 37, 139-151. | 2.6 | 0 |
| 122 | STEADY STATE AND TRANSIENT BEHAVIOR OF PWM INVERTER FED INDUCTION MOTORS. Electric Power Components and Systems, 1989, 16, 1-13. | 0.1 | 1 |
| 123 | Acupuncture: Occidental and Oriental Viewpoints. IEEE Engineering in Medicine and Biology Magazine, 1986, 5, 26-30. | 0.8 | 0 |
| 124 | An advanced fuel cell simulator. , 0, , . | | 36 |
| 125 | Assessing Impact of Maker Space on Student Learning. , 0, , . | | 5 |
| 126 | Vertically Integrated Projects (VIP) Programs: Multidisciplinary Projects with Homes in Any Discipline. , 0, , . | | 5 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | Preparing Future Engineering Faculty: Influences of a Professional Development Seminar on Doctoral Students' Understanding of Faculty Work. , 0, , . | | 2 |