

Hossein Iman-Eini

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

109
papers

1,955
citations

23
h-index

39
g-index

129
ext. papers

2,489
ext. citations

5
avg, IF

5.69
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 109 | Optimal Switching Sequence Based Model Predictive Control for a Hybrid Multilevel STATCOM. <i>IEEE Transactions on Industrial Electronics</i> , 2022 , 1-1 | 8.9 | 1 |
| 108 | Passivity-based Control of Single Phase Cascaded H-Bridge Grid-Connected Photovoltaic Inverter. <i>IEEE Transactions on Industrial Electronics</i> , 2022 , 1-1 | 8.9 | 3 |
| 107 | A Highly Reliable Low-Cost Single-Switch Resonant DC-DC Converter with High Gain and Low Component Count. <i>IEEE Transactions on Industrial Electronics</i> , 2022 , 1-1 | 8.9 | 1 |
| 106 | A Simple Hardware-Based Fault-Tolerant method for Cascaded H-bridge Converters. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1 | 8.9 | |
| 105 | A High Voltage Capacitor Charger Based On a Novel LCCL Resonant Converter. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1 | 8.9 | 0 |
| 104 | Fault-Tolerant Method to Reduce Voltage Stress of Submodules in Postfault Condition for Regenerative MMC-Based Drive. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 4718-4726 | 8.9 | 6 |
| 103 | Finite control set model predictive control for static synchronous compensator based on hybrid cascaded H-bridge and neutral point clamped multilevel inverter. <i>International Transactions on Electrical Energy Systems</i> , 2021 , 31, e12745 | 2.2 | 0 |
| 102 | A Software-Based Fault-Tolerant Strategy for Modular Multilevel Converter Using DC Bus Voltage Control. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 9, 3436-3445 | 5.6 | 3 |
| 101 | Symmetric Cascaded H-bridge Multilevel Inverter with Enhanced Multi-Phase Fault Tolerant Capability. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1 | 8.9 | 2 |
| 100 | A Fault-Tolerant Method for Cascaded H-Bridge Based Photovoltaic Inverters with Improved Active and Reactive Power Injection Capability in Post-Fault Condition. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1 | 8.9 | 2 |
| 99 | Fast Artificial Neural Network based Method for Estimation of the Global Maximum Power Point in Photovoltaic Systems. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1 | 8.9 | 6 |
| 98 | Cascaded H-bridge Based STATCOM with Improved Ride Through Capability of Submodule Failures. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1 | 8.9 | 6 |
| 97 | Leakage Current Suppression in Multilevel Cascaded H-Bridge Based Photovoltaic Inverters. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 13754-13762 | 7.2 | 3 |
| 96 | Predictive Control of Grid-Connected Modified-CHB with Reserve Batteries in Photovoltaic Application under Asymmetric Operating Condition. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1 | 8.9 | 0 |
| 95 | Utilization of Soft-Switched Boost Converter for MPPT Application in Photovoltaic Single-Phase Grid-Connected Inverter 2020 , | | 4 |
| 94 | Modeling and estimation of the maximum power of solar arrays under partial shading conditions 2020 , | | 1 |
| 93 | A Novel Graph-Based Routing Algorithm in Residential Multimicrogrid Systems. <i>IEEE Transactions on Industrial Informatics</i> , 2020 , 1-1 | 11.9 | 2 |

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|----|---|------|----|
| 92 | Detection and Localization of Open-Circuit Fault in Modular Multilevel Converter 2020 , | | 3 |
| 91 | Power management in multi-microgrid system based on energy routers 2020 , | | 1 |
| 90 | Effects of Creep Failure Mechanisms on Thermomechanical Reliability of Solder Joints in Power Semiconductors. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 8956-8964 | 7.2 | 15 |
| 89 | A Novel Extended Impedance-Power Droop for Accurate Active and Reactive Power Sharing in a Multi-Bus Microgrid With Complex Impedances. <i>IEEE Transactions on Smart Grid</i> , 2020 , 11, 3795-3804 | 10.7 | 11 |
| 88 | Design and control of a STATCOM based on hybrid cascaded H-bridge and full-bridge neutral point clamped multilevel inverter. <i>IET Power Electronics</i> , 2020 , 13, 4019-4030 | 2.2 | 2 |
| 87 | Design and Implementation of Ozone Production Power Supply for the Application of Microbial Purification of Water. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 8215-8223 | 7.2 | 4 |
| 86 | Modular Hybrid DC Breaker-based Adaptive Auto-Reclosing Method for MMC-HVDC Systems 2020 , | | 3 |
| 85 | Comparative and Quantitative analyze on Reliability of MMC-Based and CHB-Based Drive Systems Considering Various Redundancy Strategies 2020 , | | 3 |
| 84 | Improved post-fault operation strategy for a cascaded H-bridge based STATCOM. <i>IET Power Electronics</i> , 2020 , 13, 2413-2423 | 2.2 | 7 |
| 83 | Improving the Reactive Current Compensation Capability of Cascaded H-Bridge Based STATCOM Under Unbalanced Grid Voltage. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020 , 8, 1466-1476 | 5.6 | 22 |
| 82 | Reliability Assessment of Multistate Degraded Systems: An Application to Power Electronic Systems. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 4024-4032 | 7.2 | 14 |
| 81 | DC Fault Current Blocking With the Coordination of Half-Bridge MMC and the Hybrid DC Breaker. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 5503-5514 | 8.9 | 16 |
| 80 | An Impedance-Power Droop Method for Accurate Power Sharing in Islanded Resistive Microgrids. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020 , 8, 3763-3771 | 5.6 | 12 |
| 79 | Reciprocal and Self-Aging Effects of Power Components on Reliability of DCDC Boost Converter With Coupled and Decoupled Thermal Structures. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2019 , 9, 2506-2513 | 1.7 | 5 |
| 78 | Dual-output DC/DC boost converter for bipolar DC microgrids. <i>IET Renewable Power Generation</i> , 2019 , 13, 1402-1410 | 2.9 | 15 |
| 77 | Neural Network based Maximum Power Point Tracking Technique for PV Arrays in Mobile Applications 2019 , | | 3 |
| 76 | A New Space Vector Modulation Technique for Reducing Switching Losses in Induction Motor DTC-SVM Scheme 2019 , | | 2 |
| 75 | Efficient real-time estimation for DFIG performance and reliability enhancement of grid/micro-grid connected energy conversion systems. <i>Journal of Renewable and Sustainable Energy</i> , 2019 , 11, 025503 | 2.5 | 4 |

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|----|--|-----|----|
| 74 | . <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 2756-2765 | 8.9 | 52 |
| 73 | Evaluation of loss effect on optimum operation of variable speed micro-hydropower energy conversion systems. <i>Renewable Energy</i> , 2019 , 131, 1022-1034 | 8.1 | 14 |
| 72 | A Robust LESO-based DC-Link Voltage Controller for Variable Speed Hydro-Electric Plants 2019 , | | 4 |
| 71 | 2019 , | | 2 |
| 70 | Estimation and Interruption of Short Circuit Currents in HVDC Systems 2019 , | | 1 |
| 69 | Investigation of a cascaded H-bridge photovoltaic inverter under non-uniform insolation conditions by hardware-in-the-loop test. <i>International Journal of Electrical Power and Energy Systems</i> , 2019 , 105, 330-340 | 5.1 | 13 |
| 68 | Analysis, Design, and Implementation of DCDC IBBC-DAHB Converter With Voltage Matching to Improve Efficiency. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 5209-5219 | 8.9 | 9 |
| 67 | Improved Fault-Tolerant Method for Modular Multilevel Converters by Combined DC and Neutral-Shift Strategy. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 2454-2462 | 8.9 | 23 |
| 66 | A Gate Driver Circuit for Series-Connected IGBTs Based on Quasi-Active Gate Control. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2018 , 6, 791-799 | 5.6 | 14 |
| 65 | Reactive power sharing improvement of droop-controlled DFIG wind turbines in a microgrid. <i>IET Generation, Transmission and Distribution</i> , 2018 , 12, 842-849 | 2.5 | 15 |
| 64 | . <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 6436-6445 | 8.9 | 47 |
| 63 | A New Interleaved Coupled-Inductor Nonisolated Soft-Switching Bidirectional DCDC Converter With High Voltage Gain Ratio. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 5529-5538 | 8.9 | 61 |
| 62 | 2018 , | | 1 |
| 61 | A new strategy for load side harmonic reduction using grid-connected photovoltaic inverters 2018 , | | 2 |
| 60 | Improved control algorithm for grid-connected cascaded H-bridge photovoltaic inverters under asymmetric operating conditions. <i>IET Power Electronics</i> , 2018 , 11, 407-415 | 2.2 | 23 |
| 59 | Selective Harmonic Elimination Technique With Control of Capacitive DC-Link Voltages in an Asymmetric Cascaded H-Bridge Inverter for STATCOM Application. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 8788-8796 | 8.9 | 40 |
| 58 | Adaptive Sensorless SM-DPC of DFIG-Based WECS Under Disturbed Grid: Study and Experimental Results. <i>IEEE Transactions on Sustainable Energy</i> , 2018 , 9, 570-581 | 8.2 | 5 |
| 57 | MPPT Method for PV Systems Under Partially Shaded Conditions by Approximating I_V Curve. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 3966-3975 | 8.9 | 49 |

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|----|--|------|----|
| 56 | Sliding mode control of DFIG powers in the case of unknown flux and rotor currents with reduced switching frequency. <i>International Journal of Electrical Power and Energy Systems</i> , 2018 , 96, 347-356 | 5.1 | 17 |
| 55 | Reliable simple method for suppression of leakage current in grid-connected CHB inverters. <i>IET Power Electronics</i> , 2018 , 11, 2170-2177 | 2.2 | 8 |
| 54 | An efficient online time-temperature-dependent creep-fatigue rainflow counting algorithm. <i>International Journal of Fatigue</i> , 2018 , 116, 284-292 | 5 | 23 |
| 53 | A Reliable Three-Phase Transformerless Grid-Connected PV Inverter With Inductive DC Link. <i>IEEE Journal of Photovoltaics</i> , 2018 , 8, 1305-1312 | 3.7 | 7 |
| 52 | ZCS-PWM interleaved boost converter using resonance-clamp auxiliary circuit. <i>IET Power Electronics</i> , 2017 , 10, 405-412 | 2.2 | 8 |
| 51 | Reduction of capacitor voltage ripple in a modular multilevel converter employed in adjustable speed drive application 2017 , | | 2 |
| 50 | A new control method for improving the performance of Modular multilevel converter 2017 , | | 2 |
| 49 | A New High-Switching-Frequency Modulation Technique to Improve the DC-Link Voltage Utilization in Multilevel Converters. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 1807-1817 | 8.9 | 10 |
| 48 | Fault-Tolerant Operation of Three-Phase Cascaded H-Bridge Converters Using an Auxiliary Module. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 1018-1027 | 8.9 | 69 |
| 47 | Global Maximum Power Point Tracking Method for Photovoltaic Arrays Under Partial Shading Conditions. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 2855-2864 | 8.9 | 70 |
| 46 | A Method to Control the Interphase Power Controller with Common DC Bus. <i>Electric Power Components and Systems</i> , 2017 , 45, 1996-2006 | 1 | 3 |
| 45 | Non-equal DC link Voltages in a Cascaded H-Bridge with a Selective Harmonic Mitigation-PWM Technique Based on the Fundamental Switching Frequency. <i>Journal of Power Electronics</i> , 2017 , 17, 106-114 | 11.4 | 9 |
| 44 | Dynamic voltage restorer employing multilevel cascaded H-bridge inverter. <i>IET Power Electronics</i> , 2016 , 9, 2196-2204 | 2.2 | 29 |
| 43 | Hybrid Modulation Technique for Grid-Connected Cascaded Photovoltaic Systems. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 7843-7853 | 8.9 | 43 |
| 42 | Modulation technique for Four-Leg Voltage Source Inverter without a Look-Up Table. <i>IET Power Electronics</i> , 2016 , 9, 648-656 | 2.2 | 14 |
| 41 | Improving the Performance of a Cascaded H-Bridge-Based Interline Dynamic Voltage Restorer. <i>IEEE Transactions on Power Delivery</i> , 2016 , 31, 1160-1167 | 4.3 | 39 |
| 40 | A novel PSO (Particle Swarm Optimization)-based approach for optimal schedule of refrigerators using experimental models. <i>Energy</i> , 2016 , 107, 707-715 | 7.9 | 10 |
| 39 | Selective harmonic elimination pulse width modulation in single-phase modular multilevel converter 2015 , | | 3 |

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| 38 | Modified step-up boost converter with coupled-inductor and super-lift techniques. <i>IET Power Electronics</i> , 2015 , 8, 898-905 | 2.2 | 14 |
| 37 | Selective Harmonic Elimination in Asymmetric Cascaded Multilevel Inverters Using a New Low-frequency Strategy for Photovoltaic Applications. <i>Electric Power Components and Systems</i> , 2015 , 43, 964-969 | 1 | 17 |
| 36 | Using auxiliary signals as a simple method for balancing DC bus voltages in cascaded H- bridge converters 2015 , | | 4 |
| 35 | Increasing the number of voltage levels in single-phase multilevel converters 2015 , | | 3 |
| 34 | DC link voltage balancing approach for cascaded H-bridge active rectifier based on selective harmonic elimination-pulse width modulation. <i>IET Power Electronics</i> , 2015 , 8, 583-590 | 2.2 | 38 |
| 33 | State feedback control strategy and voltage balancing scheme for a transformer-less STATIC synchronous COMPensator based on cascaded H-bridge converter. <i>IET Power Electronics</i> , 2015 , 8, 906-917 ² | 2.2 | 29 |
| 32 | Improved Phasor Estimation Method for Dynamic Voltage Restorer Applications. <i>IEEE Transactions on Power Delivery</i> , 2015 , 30, 1467-1477 | 4.3 | 31 |
| 31 | Open-circuit fault detection and localization in Modular Multilevel Converter 2015 , | | 4 |
| 30 | A voltage balancing strategy with extended operating region for cascaded H-bridge converters. <i>IEEE Transactions on Power Electronics</i> , 2014 , 29, 5044-5053 | 7.2 | 80 |
| 29 | Control scheme for cascaded H-bridge converter-based distribution network static compensator. <i>IET Power Electronics</i> , 2014 , 7, 2837-2845 | 2.2 | 25 |
| 28 | A new switching strategy for transformer-less back-to-back cascaded H-bridge multilevel converter. <i>IET Power Electronics</i> , 2014 , 7, 1868-1877 | 2.2 | 21 |
| 27 | Selective harmonic mitigation-pulse-width modulation technique with variable DC-link voltages in single and three-phase cascaded H-bridge inverters. <i>IET Power Electronics</i> , 2014 , 7, 924-932 | 2.2 | 56 |
| 26 | Optimal selective harmonic elimination for cascaded H-bridge-based multilevel rectifiers. <i>IET Power Electronics</i> , 2014 , 7, 350-356 | 2.2 | 38 |
| 25 | Modified space vector modulation for fault-tolerant operation of multilevel cascaded H-bridge inverters. <i>IET Power Electronics</i> , 2013 , 6, 742-751 | 2.2 | 77 |
| 24 | An LCL-based interface connecting photovoltaic back-up inverter to load and grid 2013 , | | 7 |
| 23 | An optimal selective harmonic mitigation technique for high power converters. <i>International Journal of Electrical Power and Energy Systems</i> , 2013 , 49, 34-39 | 5.1 | 53 |
| 22 | A new maximum power point tracking strategy for PV arrays under uniform and non-uniform insolation conditions. <i>Solar Energy</i> , 2013 , 91, 221-232 | 6.8 | 81 |
| 21 | Molecular analysis of typical and atypical enteropathogenic Escherichia coli (EPEC) isolated from children with diarrhoea. <i>Journal of Medical Microbiology</i> , 2013 , 62, 191-195 | 3.2 | 21 |

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|----|---|------|----|
| 20 | Developed MPPT Algorithm for Photovoltaic Systems without a Voltage Sensor. <i>Journal of Power Electronics</i> , 2013 , 13, 1042-1050 | 0.9 | 5 |
| 19 | Stable operation of grid connected Cascaded H-Bridge inverter under unbalanced insolation conditions 2013 , | | 20 |
| 18 | A Redundancy-based scheme for balancing DC-link voltages in cascaded H-bridge rectifiers. <i>IET Power Electronics</i> , 2013 , 6, 235-243 | 2.2 | 13 |
| 17 | Stationary super-capacitor energy storage system to save regenerative braking energy in a metro line. <i>Energy Conversion and Management</i> , 2012 , 56, 206-214 | 10.6 | 91 |
| 16 | Characterization of <i>Alloicoccus otitidis</i> strains isolated from children with otitis media with effusion by Pulsed-Field Gel Electrophoresis. <i>International Journal of Pediatric Otorhinolaryngology</i> , 2012 , 76, 1658-60 | 1.7 | 2 |
| 15 | A minimum loss switching method using space vector modulation for cascaded H-bridge multilevel inverter 2012 , | | 17 |
| 14 | Grid-Connected Photovoltaic System Based on a Cascaded H-Bridge Inverter. <i>Journal of Power Electronics</i> , 2012 , 12, 578-586 | 0.9 | 22 |
| 13 | Fault-tolerant operation of a medium voltage drive based on the Cascaded H-bridge inverter 2011 , | | 2 |
| 12 | Optimal stationary super-capacitor energy storage system in a metro line 2011 , | | 10 |
| 11 | Phenotypic and genotypic evaluation of fluoroquinolone resistance in clinical isolates of <i>Staphylococcus aureus</i> in Tehran. <i>Medical Science Monitor</i> , 2011 , 17, PH71-4 | 3.2 | 5 |
| 10 | Molecular analysis and antimicrobial susceptibility of methicillin resistant <i>Staphylococcus aureus</i> in one of the hospitals of Tehran University of Medical Sciences: high prevalence of sequence type 239 (ST239) clone. <i>Acta Microbiologica Et Immunologica Hungarica</i> , 2011 , 58, 31-9 | 1.8 | 17 |
| 9 | A new strategy for control of cascaded H-bridge rectifiers with unequal loads 2011 , | | 5 |
| 8 | Enhancing the reliability of single-phase CHB-based grid-connected photovoltaic energy systems 2011 , | | 14 |
| 7 | Multiple-Locus Variable Number of Tandem Repeats Fingerprinting (MLVF) and Virulence Factor Analysis of Methicillin Resistant <i>Staphylococcus aureus</i> SCCmec type III. <i>Polish Journal of Microbiology</i> , 2011 , 60, 303-307 | 1.8 | 10 |
| 6 | Multiple-locus variable number of tandem repeats fingerprinting (MLVF) and virulence factor analysis of methicillin resistant <i>Staphylococcus aureus</i> SCCmec type III. <i>Polish Journal of Microbiology</i> , 2011 , 60, 303-7 | 1.8 | 4 |
| 5 | Maximum power point tracking for photovoltaic arrays with minimum sensors 2010 , | | 2 |
| 4 | Extending the operating range of cascaded H-bridge based multilevel rectifier under unbalanced load conditions 2010 , | | 10 |
| 3 | A Fault-Tolerant Control Strategy for Cascaded H-Bridge Multilevel Rectifiers. <i>Journal of Power Electronics</i> , 2010 , 10, 34-42 | 0.9 | 23 |

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|---|---|-----|-----|
| 2 | A modular power electronic transformer based on a cascaded H-bridge multilevel converter. <i>Electric Power Systems Research</i> , 2009 , 79, 1625-1637 | 3.5 | 36 |
| 1 | . <i>IEEE Transactions on Power Electronics</i> , 2008 , 23, 2428-2442 | 7.2 | 123 |