

# Lazhar Ben-Brahim

## 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.

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|-------------------|-------------------------|----------------|----------------|
| 56<br>papers      | 1,128<br>citations      | 15<br>h-index  | 33<br>g-index  |
| 62<br>ext. papers | 1,534<br>ext. citations | 4.8<br>avg, IF | 4.8<br>L-index |

| #  | Paper   | IF   | Citations |
|----|---|------|-----------|
| 56 | Planning and Optimizing Electric-Vehicle Charging Infrastructure Through System Dynamics (December 2021). <i>IEEE Access</i> , <b>2022</b> , 1-1  | 3.5  | 1         |
| 55 | Enhanced Deadbeat Control Approach for Grid-Tied Multilevel Flying Capacitors Inverter. <i>IEEE Access</i> , <b>2022</b> , 1-1  | 3.5  | 2         |
| 54 | Current stress and switching loss evaluation of a unified expandable power converter used for grid-integration of renewable energy sources. <i>IET Renewable Power Generation</i> , <b>2021</b> , 15, 2561-2570         | 2.9  | 1         |
| 53 | . <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 4766-4777   | 7.2  | 6         |
| 52 | Differential Flatness-Based Performance Enhancement of a Vector Controlled VSC With an LCL-Filter for Weak Grids. <i>IEEE Access</i> , <b>2021</b> , 9, 33557-33568   | 3.5  | 0         |
| 51 | Reinforcement Learning Based EV Charging Management Systems: A Review. <i>IEEE Access</i> , <b>2021</b> , 9, 41506-41531  | 3.5  | 13        |
| 50 | Novel Level-Shifted PWM Technique for Cascaded Multilevel Quasi-Impedance Source Inverter. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2021</b> , 9, 5918-5928                        | 5.6  | 3         |
| 49 | A novel control scheme for three-phase seven-level packed U-Cell based DSTATCOM. <i>Electric Power Systems Research</i> , <b>2020</b> , 182, 106201   | 3.5  | 4         |
| 48 | EK Multilevel inverter with minimal switch novel configuration for higher number of output voltage levels. <i>IET Power Electronics</i> , <b>2020</b> , 13, 2804-2815   | 2.2  | 3         |
| 47 | Design and Implementation of Cascaded Multilevel qZSI Powered Single-Phase Induction Motor for Isolated Grid Water Pump Application. <i>IEEE Transactions on Industry Applications</i> , <b>2020</b> , 56, 1907-1917    | 4.3  | 16        |
| 46 | A Battery Health Monitoring Method Using Machine Learning: A Data-Driven Approach. <i>Energies</i> , <b>2020</b> , 13, 3658   | 3.1  | 10        |
| 45 | Time-Dependent Bit Error Rate Analysis for Smart Utility Networks in the Presence of WLAN Interferers. <i>IEEE Systems Journal</i> , <b>2020</b> , 14, 2133-2143  | 4.3  | 2         |
| 44 | A New Variable Frequency Control of 49-Level Cascaded Packed U-Cell Voltage Source Inverter. <i>IEEE Transactions on Industry Applications</i> , <b>2019</b> , 55, 7537-7548  | 4.3  | 13        |
| 43 | Review of Medium Voltage High Power Electric Drives. <i>IEEE Journal of Industry Applications</i> , <b>2019</b> , 8, 1-11   | 10.7 | 3         |
| 42 | Dual Mechanical Port Machine Based Hybrid Electric Vehicle Using Reduced Switch Converters. <i>IEEE Access</i> , <b>2019</b> , 7, 33665-33676   | 3.5  | 6         |
| 41 | Novel voltage balancing algorithm for single-phase cascaded multilevel inverter for post-module failure operation in solar photovoltaic applications. <i>IET Renewable Power Generation</i> , <b>2019</b> , 13, 427-437 | 2.9  | 9         |
| 40 | High Brightness and High Voltage Dimmable LED Driver for Advanced Lighting System. <i>IEEE Access</i> , <b>2019</b> , 7, 95643-95652  | 3.5  | 5         |

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| 39 | Fault tolerant single-phase capacitor start capacitor run induction motor powered with cascaded multilevel quasi impedance source inverter. <i>Journal of Engineering</i> , <b>2019</b> , 2019, 4036-4040         | 0.7  | 0   |
| 38 | Mitigation of voltage imbalance in power distribution system using MPC-controlled packed-U-cells converter. <i>Energy Science and Engineering</i> , <b>2019</b> , 7, 1659-1668                                    | 3.4  | 2   |
| 37 | Optimized FPGA Implementation of PWAM-Based Control of Three-Phase Nine-Level Quasi Impedance Source Inverter. <i>IEEE Access</i> , <b>2019</b> , 7, 137279-137290  | 3.5  | 3   |
| 36 | Design considerations, modelling, and control of dual-active full bridge for electric vehicles charging applications. <i>Journal of Engineering</i> , <b>2019</b> , 2019, 8439-8447                               | 0.7  | 1   |
| 35 | New Fast Arctangent Approximation Algorithm for Generic Real-Time Embedded Applications. <i>Sensors</i> , <b>2019</b> , 19,   | 3.8  | 1   |
| 34 | Real-Time Fault Detection and Identification for MMC Using 1-D Convolutional Neural Networks. <i>IEEE Transactions on Industrial Electronics</i> , <b>2019</b> , 66, 8760-8771                                    | 8.9  | 87  |
| 33 | Survey about public perception regarding smart grid, energy efficiency & renewable energies applications in Qatar. <i>Renewable and Sustainable Energy Reviews</i> , <b>2018</b> , 82, 168-175                    | 16.2 | 14  |
| 32 | Design and analysis of high-gain medium-voltage DC-DC converters for high-power PV applications <b>2018</b> ,   |      | 7   |
| 31 | Modeling and control for new LLCL filter based grid-tied PV inverters with active power decoupling and active resonance damping capabilities. <i>Electric Power Systems Research</i> , <b>2018</b> , 155, 307-319 | 3.5  | 10  |
| 30 | <b>2017</b> ,   |      | 6   |
| 29 | Thyristor based SVC and multilevel qZSI for Active and Reactive power management in solar PV system <b>2017</b> ,   |      | 4   |
| 28 | Long-term performance analysis and power prediction of PV technology in the State of Qatar. <i>Renewable Energy</i> , <b>2017</b> , 113, 952-965  | 8.1  | 34  |
| 27 | Review of optimization techniques applied for the integration of distributed generation from renewable energy sources. <i>Renewable Energy</i> , <b>2017</b> , 113, 266-280                                       | 8.1  | 225 |
| 26 | Review and simulation of leakage current in transformerless microinverters for PV applications. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 74, 1240-1256                                     | 16.2 | 28  |
| 25 | Switchless Power Decoupling and Switchless Leakage Current Elimination in Grid-Tied Inverters <b>2017</b> ,   |      | 3   |
| 24 | Common mode voltage reduction in a three-to-five phase matrix converter fed induction motor drive. <i>IET Power Electronics</i> , <b>2017</b> , 10, 817-825   | 2.2  | 17  |
| 23 | Cascaded multilevel qZSI powered single-phase induction motor for water pump application <b>2017</b> ,  |      | 2   |
| 22 | Finite control set model predictive control for grid-tied quasi-Z-source based multilevel inverter <b>2016</b> ,  |      | 4   |

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|----|---|-----|-----|
| 21 | Modular Multilevel Converter Circulating Current Reduction Using Model Predictive Control. <i>IEEE Transactions on Industrial Electronics</i> , <b>2016</b> , 63, 3857-3866                           | 8.9 | 84  |
| 20 | Common mode voltage reduction in open-end multi-phase load system fed through matrix converter <b>2016</b> ,  |     | 2   |
| 19 | An interconnected observer for modular multilevel converter <b>2016</b> ,   |     | 5   |
| 18 | An effective Model Predictive Control for grid connected Packed U Cells multilevel inverter <b>2016</b> ,   |     | 21  |
| 17 | Finite-Control-Set Model Predictive Control for Grid-Connected Packed-U-Cells Multilevel Inverter. <i>IEEE Transactions on Industrial Electronics</i> , <b>2016</b> , 63, 7286-7295                   | 8.9 | 96  |
| 16 | Robust Adaptive Observer-Based Model Predictive Control for Multilevel Flying Capacitors Inverter. <i>IEEE Transactions on Industrial Electronics</i> , <b>2016</b> , 63, 7876-7886                   | 8.9 | 28  |
| 15 | Space vector pulse width modulation techniques for a five-phase impedance source and quazi impedance source inverters <b>2015</b> ,   |     | 4   |
| 14 | . <i>IEEE Transactions on Industrial Electronics</i> , <b>2014</b> , 61, 6108-6117  | 8.9 | 139 |
| 13 | High-Power Drive Systems for Industrial Applications: Practical Examples <b>2014</b> , 695-726  |     | 3   |
| 12 | A wavelet-based passive islanding detection technique <b>2012</b> ,   |     | 1   |
| 11 | Multilevel cascaded Z source inverter for PV power generation system <b>2012</b> ,  |     | 4   |
| 10 | A new PLL method for resolvers <b>2010</b> ,  |     | 8   |
| 9  | A Resolver Angle Estimator Based on Its Excitation Signal. <i>IEEE Transactions on Industrial Electronics</i> , <b>2009</b> , 56, 574-580   | 8.9 | 60  |
| 8  | A New Low Cost Linear Resolver Converter. <i>IEEE Sensors Journal</i> , <b>2008</b> , 8, 1620-1627  | 4   | 46  |
| 7  | A Discontinuous PWM Method for Balancing the Neutral Point Voltage in Three-Level Inverter-Fed Variable Frequency Drives. <i>IEEE Transactions on Energy Conversion</i> , <b>2008</b> , 23, 1057-1063 | 5.4 | 37  |
| 6  | Iterative learning control for variable frequency drives. <i>Power Electronics Specialist Conference (PESC), IEEE</i> , <b>2008</b> ,   |     | 4   |
| 5  | A resolver converter based upon a novel open-loop technique <b>2008</b> ,   |     | 1   |
| 4  | A novel method for estimating the angle from analog co-sinusoidal quadrature signals. <i>Sensors and Actuators A: Physical</i> , <b>2008</b> , 142, 225-231   | 3.9 | 27  |

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| 3 | A Neutral Point Voltage Balancing Method for Multi-Level GTO Inverters. <i>Conference Record - IAS Annual Meeting (IEEE Industry Applications Society)</i> , <b>2006</b> ,         | 5     |
| 2 | A Novel Converter for Sinusoidal Encoders <b>2006</b> ,  | 1     |
| 1 | Deadbeat control of induction motor current using state observer with adaptive poles selection..<br><i>IEEJ Transactions on Industry Applications</i> , <b>1990</b> , 110, 590-597 | 0.2 4 |