

# Saher A Albatran

## List of Publications by Year in descending order

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Version: 2024-02-01

29  
papers

156  
citations

1307594

7  
h-index

1281871

11  
g-index

29  
all docs

29  
docs citations

29  
times ranked

153  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Reactive power correction using virtual synchronous generator technique for droop controlled voltage source inverters in islanded microgrid. <i>Energy Systems</i> , 2023, 14, 391-417.   | 3.0 | 4         |
| 2  | Investigated Analysis and New Zero-Sequence Harmonic Injection Pulsewidth Scheme for Overmodulation Region. <i>IEEE Access</i> , 2022, 10, 12421-12429.   | 4.2 | 0         |
| 3  | Improving the Performance of a Two-Level Voltage Source Inverter in the Overmodulation Region Using Adaptive Optimal Third Harmonic Injection Pulsewidth Modulation Schemes. <i>IEEE Transactions on Power Electronics</i> , 2021, 36, 1092-1103. | 7.9 | 16        |
| 4  | Dynamic Performance Evaluation of Inverter Feeding a Weak Grid Considering Variable System Parameters. <i>IEEE Access</i> , 2021, 9, 126104-126116.   | 4.2 | 6         |
| 5  | Informative Order-Reduction of Underdamped Third-Order Systems. <i>IEEE Access</i> , 2021, 9, 88512-88523.  | 4.2 | 2         |
| 6  | Adaptive Switching Frequency Selection Based on Two-Step Efficiency Optimization for Grid-Connected Inverters. <i>IEEE Access</i> , 2021, 9, 151741-151752.   | 4.2 | 2         |
| 7  | Online adaptive master maximum power point tracking algorithm and sensorless weather estimation. <i>Energy Systems</i> , 2020, 11, 73-93.   | 3.0 | 2         |
| 8  | Minimizing Total Harmonic Distortion of a Two-Level Voltage Source Inverter Using Optimal Third Harmonic Injection. <i>IEEE Transactions on Power Electronics</i> , 2020, 35, 3287-3297.  | 7.9 | 25        |
| 9  | Analytical Factorized Model for Stability Analysis and Optimization of Shunt $RC$ Damped $LCL$ Filter for Grid-Connected Voltage Source Inverters. <i>IEEE Transactions on Power Electronics</i> , 2020, 35, 6830-6841.                           | 7.9 | 7         |
| 10 | Generalized Optimal and Explicit PI/PID Tuning Formulas for Underdamped Second-order Systems. <i>International Journal of Control, Automation and Systems</i> , 2020, 18, 1023-1032.  | 2.7 | 4         |
| 11 | Realistic Optimal Power Flow of a Wind-Connected Power System With Enhanced Wind Speed Model. <i>IEEE Access</i> , 2020, 8, 176973-176985.  | 4.2 | 7         |
| 12 | Power quality improvement of a class of reduced device count inverter. <i>Simulation Modelling Practice and Theory</i> , 2019, 96, 101939.  | 3.8 | 2         |
| 13 | Optimal design of passive $RC$ -damped $LCL$ filter for grid-connected voltage source inverters. <i>Electrical Engineering</i> , 2018, 100, 2499-2508.  | 2.0 | 8         |
| 14 | Optimal Control of a Compact Converter in an AC Microgrid. <i>Electronics (Switzerland)</i> , 2018, 7, 102.   | 3.1 | 5         |
| 15 | On the Performance Optimization of Two-Level Three-Phase Grid-Feeding Voltage-Source Inverters. <i>Energies</i> , 2018, 11, 400.  | 3.1 | 5         |
| 16 | Gravitational-Search Algorithm for Optimal Controllers Design of Doubly-fed Induction Generator. <i>International Journal of Electrical and Computer Engineering</i> , 2018, 8, 780.  | 0.7 | 6         |
| 17 | Experimental Validation of Shared Inverter Topology to Drive Multi AC-Loads. <i>International Journal of Electrical and Computer Engineering</i> , 2018, 8, 793.  | 0.7 | 1         |
| 18 | Selective harmonics reduction for $3(n+1)$ switch inverter using optimal leveling and sorting PWM technique. , 2017, , .  |     | 1         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | A novel compact AC/AC converter for hybrid microgrids. , 2017, , .  |     | 2         |
| 20 | Online Optimal Switching Frequency Selection for Grid-Connected Voltage Source Inverters. Electronics (Switzerland), 2017, 6, 110.  | 3.1 | 17        |
| 21 | Optimal design of output LC filter and cooling for three-phase voltage-source inverters using teaching-learning-based optimization. , 2016, , .   |     | 3         |
| 22 | Variable switching frequency algorithm for optimal tradeoff between switching losses and total demand distortion in grid-tied three-phase voltage-source inverters. , 2016, , .                       |     | 2         |
| 23 | Nonlinear controller-observer design for an inverted pendulum on a cart based on full fuzzy modeling. , 2015, , .   |     | 0         |
| 24 | Comprehensive Mathematical Description and Harmonic Analysis of Hybrid Two-Dimensionalâ€”Three-Dimensional Space Vector Modulation. IEEE Transactions on Industrial Electronics, 2014, 61, 3327-3336. | 7.9 | 13        |
| 25 | Hybrid 2D-3D Space Vector Modulation Voltage Control Algorithm for Three Phase Inverters. IEEE Transactions on Sustainable Energy, 2013, 4, 734-744.  | 8.8 | 8         |
| 26 | Comparative harmonic analysis of hybrid 2D-3D SVM and conventional 2D SVM. , 2013, , .  |     | 1         |
| 27 | Switching function notation for hybrid 2D-3D space vector modulation. , 2013, , .   |     | 0         |
| 28 | A hybrid 2D-3D SVM control algorithm for three phase voltage source inverters. , 2012, , .  |     | 3         |
| 29 | Simulinkâ€”based implementation of TCSCâ€”operated singleâ€”phase induction motor as an educational tool. Computer Applications in Engineering Education, 2011, 19, 514-524.                          | 3.4 | 4         |