

Saher A Albatran

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Minimizing Total Harmonic Distortion of a Two-Level Voltage Source Inverter Using Optimal Third Harmonic Injection. IEEE Transactions on Power Electronics, 2020, 35, 3287-3297.	7.9	25
2	Online Optimal Switching Frequency Selection for Grid-Connected Voltage Source Inverters. Electronics (Switzerland), 2017, 6, 110.	3.1	17
3	Improving the Performance of a Two-Level Voltage Source Inverter in the Overmodulation Region Using Adaptive Optimal Third Harmonic Injection Pulsewidth Modulation Schemes. IEEE Transactions on Power Electronics, 2021, 36, 1092-1103.	7.9	16
4	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
5	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
6	Optimal design of passive RC-damped LCL filter for grid-connected voltage source inverters. Electrical Engineering, 2018, 100, 2499-2508.	2.0	8
7	Analytical Factorized Model for Stability Analysis and Optimization of Shunt RC Damped LCL Filter for Grid-Connected Voltage Source Inverters. IEEE Transactions on Power Electronics, 2020, 35, 6830-6841.	7.9	7
8	Realistic Optimal Power Flow of a Wind-Connected Power System With Enhanced Wind Speed Model. IEEE Access, 2020, 8, 176973-176985.	4.2	7
9	Dynamic Performance Evaluation of Inverter Feeding a Weak Grid Considering Variable System Parameters. IEEE Access, 2021, 9, 126104-126116.	4.2	6
10	Gravitational-Search Algorithm for Optimal Controllers Design of Doubly-fed Induction Generator. International Journal of Electrical and Computer Engineering, 2018, 8, 780.	0.7	6
11	Optimal Control of a Compact Converter in an AC Microgrid. Electronics (Switzerland), 2018, 7, 102.	3.1	5
12	On the Performance Optimization of Two-Level Three-Phase Grid-Feeding Voltage-Source Inverters. Energies, 2018, 11, 400.	3.1	5
13	Simulink-based implementation of TCSC-operated single-phase induction motor as an educational tool. Computer Applications in Engineering Education, 2011, 19, 514-524.	3.4	4
14	Generalized Optimal and Explicit PI/PID Tuning Formulas for Underdamped Second-order Systems. International Journal of Control, Automation and Systems, 2020, 18, 1023-1032.	2.7	4
15	Reactive power correction using virtual synchronous generator technique for droop controlled voltage source inverters in islanded microgrid. Energy Systems, 2023, 14, 391-417.	3.0	4
16	A hybrid 2D-3D SVM control algorithm for three phase voltage source inverters. , 2012, , .		3
17	Optimal design of output LC filter and cooling for three-phase voltage-source inverters using teaching-learning-based optimization. , 2016, , .		3
18	Variable switching frequency algorithm for optimal tradeoff between switching losses and total demand distortion in grid-tied three-phase voltage-source inverters. , 2016, , .		2

#	ARTICLE	IF	CITATIONS
19	A novel compact AC/AC converter for hybrid microgrids. , 2017, , .		2
20	Power quality improvement of a class of reduced device count inverter. Simulation Modelling Practice and Theory, 2019, 96, 101939.	3.8	2
21	Online adaptive master maximum power point tracking algorithm and sensorless weather estimation. Energy Systems, 2020, 11, 73-93.	3.0	2
22	Informative Order-Reduction of Underdamped Third-Order Systems. IEEE Access, 2021, 9, 88512-88523.	4.2	2
23	Adaptive Switching Frequency Selection Based on Two-Step Efficiency Optimization for Grid-Connected Inverters. IEEE Access, 2021, 9, 151741-151752.	4.2	2
24	Comparative harmonic analysis of hybrid 2D-3D SVM and conventional 2D SVM. , 2013, , .		1
25	Selective harmonics reduction for 3(n+1) switch inverter using optimal leveling and sorting PWM technique. , 2017, , .		1
26	Experimental Validation of Shared Inverter Topology to Drive Multi AC-Loads. International Journal of Electrical and Computer Engineering, 2018, 8, 793.	0.7	1
27	Switching function notation for hybrid 2D-3D space vector modulation. , 2013, , .		0
28	Nonlinear controller-observer design for an inverted pendulum on a cart based on full fuzzy modeling. , 2015, , .		0
29	Investigated Analysis and New Zero-Sequence Harmonic Injection Pulsewidth Scheme for Overmodulation Region. IEEE Access, 2022, 10, 12421-12429.	4.2	0