Mohamed Al-Numay

List of Publications by Year
in descending order

27	225	1039880	1058333
papers	citations	9	14
		h-index	g-index

27	27	27	172
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nonlinear Control Design and Stability Analysis of Single Phase Half Bridge Interleaved Buck Shunt Active Power Filter. IEEE Transactions on Circuits and Systems I: Regular Papers, 2022, 69, 2117-2128.	3.5	6
2	A Cascaded Controller for a Grid-Tied Photovoltaic System With Three-Phase Half-Bridge Interleaved Buck Shunt Active Power Filter: Hybrid Control Strategy and Fuzzy Logic Approach. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2022, 12, 320-330.	2.7	16
3	IADF-CPS: Intelligent Anomaly Detection Framework towards Cyber Physical Systems. Computer Communications, 2022, 188, 81-89.	3.1	25
4	A Large-Signal Model for a Peak Current Mode Controlled Boost Converter With Constant Power Loads. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 559-568.	3.7	7
5	Fast-Scale Stability Analysis of a DC–DC Boost Converter With a Constant Power Load. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 549-558.	3.7	26
6	Nonlinear Dynamics and Stability Analysis of a Three-Cell Flying Capacitor DC-DC Converter. Applied Sciences (Switzerland), 2021, 11, 1395.	1.3	3
7	Fast-Scale Instability and Stabilization by Adaptive Slope Compensation of a PV-Fed Differential Boost Inverter. Applied Sciences (Switzerland), 2021, 11, 2106.	1.3	4
8	Analytical Determination of Fast-Scale Instability Boundaries for Current Mode Controlled DC–DC Converters With CPL and Closed Voltage Loop. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2021, 11, 39-48.	2.7	5
9	Performance evaluation for an hourglass‐shaped impedance‐network‐based high step‐up converter in a photovoltaic system using PSIM © simulation. International Journal of Circuit Theory and Applications, 2021, 49, 2670-2685.	1.3	3
10	Map Optimization Fuzzy Logic Framework in Wind Turbine Site Selection with Application to the USA Wind Farms. Energies, 2021, 14, 6127.	1.6	4
11	Advanced nonlinear controller of single‐phase shunt active power filter interfacing solar photovoltaic source and electrical power grid. International Transactions on Electrical Energy Systems, 2021, 31, .	1.2	12
12	Auto-Tuned Quadratic Slope Compensation for Current Mode Controlled DC-DC Converters. , 2020, , .		4
13	Multiple-Loop Control Design for a Single-Stage PV-Fed Grid-Tied Differential Boost Inverter. Applied Sciences (Switzerland), 2020, 10, 4808.	1.3	10
14	Fast Voltage-Based MPPT Control for High Gain Switched Inductor DC-DC Boost Converters. , 2020, , .		3
15	Analysis of Subharmonic Oscillation and Slope Compensation for a Differential Boost Inverter. Applied Sciences (Switzerland), 2020, 10, 5626.	1.3	3
16	Piecewise Quadratic Slope Compensation Technique for DC-DC Switching Converters. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 5574-5585.	3.5	10
17	On the Coexistence of Multiple Limit Cycles in H-Bridge Wireless Power Transfer Systems With Zero Current Switching Control. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 1729-1739.	3.5	8
18	Analysis of Nonlinear Dynamics of a Quadratic Boost Converter Used for Maximum Power Point Tracking in a Grid-Interlinked PV System. Energies, 2019, 12, 61.	1.6	14

#	Article	IF	Citations
19	A Combined Analytical-Numerical Methodology for Predicting Subharmonic Oscillation in H-Bridge Inverters Under Double Edge Modulation. IEEE Transactions on Circuits and Systems I: Regular Papers, 2018, 65, 2341-2351.	3.5	7
20	Improving the Dimming Performance of Low-Power Single-Stage AC–DC HBLED Drivers. IEEE Transactions on Industrial Electronics, 2017, 64, 5797-5806.	5.2	9
21	Analytical multi‐parametric stability boundaries of DC–DC buck converters under V^1 control concept. International Journal of Circuit Theory and Applications, 2017, 45, 1686-1700.	1.3	1
22	Prediction of subharmonic oscillation in switching regulators: from a slope to a ripple standpoint. International Journal of Electronics, 2016, 103, 2090-2109.	0.9	9
23	Modeling, Dynamics, Bifurcation Behavior and Stability Analysis of a DC–DC Boost Converter in Photovoltaic Systems. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2016, 26, 1650166.	0.7	27
24	Unified Output Redefinition for Digital Tracking Control of Non-Minimum Phase Pulse-Width Modulated DC–DC Switched Converters. Journal of Computational and Theoretical Nanoscience, 2016, 13, 9190-9198.	0.4	0
25	Unified output tracking control of non-minimum phase PWM systems using output redefinition. , 2014, , .		1
26	Discrete-Time Model for PWM Converters in Discontinuous Conduction Mode. , 2006, , .		4
27	A New Discrete-Time Simulation Method for Switched Systems using Averaging. International Journal of Modelling and Simulation, 2001, 21, 288-291.	2.3	4