Dhafer Almakhles

List of Publications by Citations

91 papers	640 citations	15 h-index	21 g-index
109 ext. papers	1,091 ext. citations	3.3 avg, IF	5.24 L-index

#	Paper	IF	Citations
91	Robust Backstepping Sliding Mode Control for a Quadrotor Trajectory Tracking Application. *IEEE Access*, **2020**, 8, 5515-5525	3.5	44
90	. *IEEE Access*, **2020**, 8, 178130-178166	3.5	32
89	Reducing Conservatism in an $H_{infty }$ Robust State-Feedback Control Design of T S Fuzzy Systems: A Nonmonotonic Approach. *IEEE Transactions on Fuzzy Systems*, **2018**, 26, 386-390	8.3	28
88	Robust output feedback controller design of discrete-time TakagiSugeno fuzzy systems: a non-monotonic Lyapunov approach. *IET Control Theory and Applications*, **2016**, 10, 545-553	2.5	27
87	Reduced Switch Count Based Single Source 7L Boost Inverter Topology. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2020**, 67, 3252-3256	3.5	27
86	Passive actuator fault tolerant control for a class of MIMO nonlinear systems with uncertainties. *International Journal of Control*, **2019**, 92, 693-704	1.5	26
85	EPAW: Efficient Privacy Preserving Anonymous Mutual Authentication Scheme for Wireless Body Area Networks (WBANs). *IEEE Access*, **2020**, 8, 48576-48586	3.5	23
84	An Adaptive Two-Level Quantizer for Networked Control Systems. *IEEE Transactions on Control Systems Technology*, **2017**, 25, 1084-1091	4.8	22
83	A Hybrid PV-Battery System for ON-Grid and OFF-Grid Applications Controller-In-Loop Simulation Validation. *Energies*, **2020**, 13, 755	3.1	22
82	A New Multilevel Inverter Topology With Reduced Power Components for Domestic Solar PV Applications. *IEEE Access*, **2020**, 8, 187483-187497	3.5	22
81	Cross Connected Compact Switched-Capacitor Multilevel Inverter (C3-SCMLI) Topology With Reduced Switch Count. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2020**, 67, 3287-3291	3.5	18
80	Stability and Performance Analysis of Bit-Stream-Based Feedback Control Systems. *IEEE Transactions on Industrial Electronics*, **2015**, 62, 4319-4327	8.9	16
79	Analysis and Investigation of Hybrid DC DC Non-Isolated and Non-Inverting Nx Interleaved Multilevel Boost Converter (Nx-IMBC) for High Voltage Step-Up Applications: Hardware Implementation. *IEEE Access*, **2020**, 8, 87309-87328	3.5	16
78	Binary Hybrid Multilevel Inverter-Based Grid Integrated Solar Energy Conversion System With Damped SOGI Control. *IEEE Access*, **2020**, 8, 37214-37228	3.5	15
77	An Improved Harmonics Mitigation Scheme for a Modular Multilevel Converter. *IEEE Access*, **2019**, 7, 147244-147255	3.5	15
76	Fast charging converter and control algorithm for solar PV battery and electrical grid integrated electric vehicle charging station. *Automatika*, **2020**, 61, 614-625	1.6	14
75	Experimental Investigations Conducted for the Characteristic Study of OM29 Phase Change Material and Its Incorporation in Photovoltaic Panel. *Energies*, **2020**, 13, 897	3.1	12

74	The dynamic behaviour of data-driven □M and □M in sliding mode control. *International Journal of Control*, **2017**, 90, 2406-2414	1.5	11
73	Compact Seven-Level Boost Type Inverter Topology. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2021**, 68, 1358-1362	3.5	11
72	Design and implementation of a new unity gain nine-level active neutral point clamped multilevel inverter topology. *IET Power Electronics*, **2020**, 13, 3204-3208	2.2	10
71	Improved □□type seven-level switched capacitor inverter topology with Self-voltage balancing. *International Journal of Circuit Theory and Applications*, **2020**, 48, 1800-1819	2	9
70	A State-of-the-Art Review on Conducted Electromagnetic Interference in Non-Isolated DC to DC Converters. *IEEE Access*, **2020**, 8, 2564-2577	3.5	9
69	. *IEEE Access*, **2020**, 8, 197730-197744	3.5	9
68	A grasshopper optimization algorithm for optimal short-term hydrothermal scheduling. *Energy Reports*, **2021**, 7, 314-323	4.6	9
67	Identification of Water Hammering for Centrifugal Pump Drive Systems. *Applied Sciences (Switzerland)*, **2020**, 10, 2683	2.6	8
66	Seven-level boosting active neutral point clamped inverter using cross-connected switched capacitor cells. *IET Power Electronics*, **2020**, 13, 1919-1924	2.2	8
65	A Generalized Multilevel Inverter Topology With Reduction of Total Standing Voltage. *IEEE Access*, **2020**, 8, 168941-168950	3.5	8
64	Robust Tracking and Disturbance Rejection Performance for Vehicle Dynamics. *IEEE Access*, **2019**, 7, 118598-118607	3.5	7
63	Non-Fragile Fault Alarm-Based Hybrid Control for the Attitude Quadrotor Model With Actuator Saturation. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2020**, 67, 2647-2651	3.5	7
62	An Original Hybrid Multilevel DC-AC Converter Using Single-Double Source Unit for Medium Voltage Applications: Hardware Implementation and Investigation. *IEEE Access*, **2020**, 8, 71291-71301	3.5	7
61	Single-phase hybrid multilevel inverter topology with low switching frequency modulation techniques for lower order harmonic elimination. *IET Power Electronics*, **2020**, 13, 4117-4127	2.2	7
60	Triple-Mode Active-Passive Parallel Intermediate Links Converter With High Voltage Gain and Flexibility in Selection of Duty Cycles. *IEEE Access*, **2020**, 8, 134716-134727	3.5	7
59	A Single-Stage Common Ground Type Transformerless Five-Level Inverter Topology. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2021**, 1-1	5.6	7
58	Investigations of AC Microgrid Energy Management Systems Using Distributed Energy Resources and Plug-in Electric Vehicles. *Energies*, **2019**, 12, 2834	3.1	6
57	An Adaptive Resistance Perturbation Based MPPT Algorithm for Photovoltaic Applications. *IEEE Access*, **2020**, 8, 196890-196901	3.5	6

56	Two-level quantised control systems: sliding-mode approach. *International Journal of Control*, **2020**, 93, 680-688	1.5	6
55	Real-Time Implementation of Extended Kalman Filter Observer With Improved Speed Estimation for Sensorless Control. *IEEE Access*, **2021**, 9, 50452-50465	3.5	6
54	Switched Capacitor-Based 13L Inverter Topology for High-Frequency AC Power Distribution System. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2021**, 9, 5883-5894	5.6	6
53	Robust H□output feedback control of bidirectional inductive power transfer systems. *Archives of Control Sciences*, **2017**, 27, 41-62		5
52	Investigation for Performances Comparison PI, Adaptive PI, Fuzzy Speed Control Induction Motor for Centrifugal Pumping Application **2019**,		5
51	Repetitive control design for vehicle lateral dynamics with state-delay. *IET Control Theory and Applications*, **2020**, 14, 1619-1627	2.5	5
50	Experimental validation of new self-voltage balanced 9L-ANPC inverter for photovoltaic applications. *Scientific Reports*, **2021**, 11, 5067	4.9	5
49	Critical Review of Data, Models and Performance Metrics for Wind and Solar Power Forecast. *IEEE Access*, **2022**, 10, 667-688	3.5	4
48	A Multilevel Inverter Topology Using Diode Half-Bridge Circuit with Reduced Power Component. *Energies*, **2021**, 14, 7249	3.1	4
47	Novel Non-Isolated Quad-Switched Inductor Double-Switch Converter for DC Microgrid Application **2020**,		4
46	**2020**,		4
45	Delta-Modulator-Based Quantised Output Feedback Controller for Linear Networked Control Systems. *IEEE Access*, **2020**, 8, 175169-175179	3.5	4
44	Solar PV network installation standards and cost estimation guidelines for smart cities. *AEJ - Alexandria Engineering Journal*, **2021**, 61, 1277-1277	6.1	4
43	Modified LUO High Gain DC-DC Converter With Minimal Capacitor Stress for Electric Vehicle Application. *IEEE Access*, **2021**, 9, 122335-122350	3.5	4
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41	Frame-Angle Controlled Wavelet Modulated Inverter and Self-Recurrent Wavelet Neural Network-Based Maximum Power Point Tracking for Wind Energy Conversion System. *IEEE Access*, **2020**, 8, 171373-171386	3.5	3
40	A Unique Unified Wind Speed Approach to Decision-Making for Dispersed Locations. *Sustainability*, **2021**, 13, 9340	3.6	3
39	Protograph LDPC-Coded BICM-ID With Irregular Mapping: An Emerging Transmission Technique for Massive Internet of Things. *IEEE Transactions on Green Communications and Networking*, **2021**, 5, 1051-1065	4	3

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37	Seven Level T-Type Switched Capacitor Inverter Topology for PV Applications. *IEEE Access*, **2021**, 9, 85049-85059	3.5	3
36	Fault Estimations and Non-Fragile Control Design for Fractional-Order Multi-Weighted Complex Dynamical Networks. *IEEE Access*, **2020**, 8, 39513-39524	3.5	2
35	Stabilisation of discrete-time polynomial fuzzy systems via a polynomial lyapunov approach. *International Journal of Systems Science*, **2018**, 49, 557-566	2.3	2
34	A new seven level boost-type ANPC inverter topology for photovoltaic applications. *Scientific Reports*, **2021**, 11, 22487	4.9	2
33	A Reduced Switch Count Boost Inverter (RSC- BI) Topology with Triple Voltage Gain **2020**,		2
32	Tracking and disturbance attenuation control for stochastic switched systems with input delay. *IET Control Theory and Applications*, **2020**, 14, 2847-2856	2.5	2
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10	Stability and H Control of Discrete-Time Switched Systems via One-Step Ahead Lyapunov Function Approach **2019**, 75-90		
9	Stability, l2-Gain and Robust H Control of Switched Systems via Multistep Ahead Nonmonotonic Approach **2019**, 91-110		
8	Robust H Filtering for Average Dwell-Time Switched Systems via a Nonmonotonic Function Approach **2019**, 111-130		
7	Dissipative Dynamic Output Feedback Control for Switched Systems via Multistep Lyapunov Function Approach **2019**, 131-147		
6	Robust H Control of Discrete-Time Nonhomogenous Markovian Jump Systems via Multistep Ahead Lyapunov Function Approach **2019**, 149-174		
5	Robust H Filtering of Nonhomogeneous Markovian Jump Delay Systems via N-Step Ahead Lyapunov Krasovskii Function Approach **2019**, 175-200		
4	Corrections to An Improved Harmonics Mitigation Scheme for a Modular Multilevel Converter [2019 147244-147255]. *IEEE Access*, **2020**, 8, 65351-65351	3.5	
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