

# Dhafer Almakhles

## List of Publications by Year in Descending Order

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**Version:** 2024-04-10

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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.

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	. <i>IEEE Access</i> , <b>2022</b> , 10, 12742-12752	3.5	
90	Critical Review of Data, Models and Performance Metrics for Wind and Solar Power Forecast. <i>IEEE Access</i> , <b>2022</b> , 10, 667-688	3.5	4
89	Double-switch switched-inductor converter with minimal switch voltage stress for renewable energy conversion. <i>Computers and Electrical Engineering</i> , <b>2022</b> , 98, 107682	4.3	0
88	Non-fragile fault-tolerant control design for fractional-order nonlinear systems with distributed delays and fractional parametric uncertainties. <i>IEEE Access</i> , <b>2022</b> , 1-1	3.5	1
87	A review on segregation of various high gain converter configurations for distributed energy sources. <i>AEJ - Alexandria Engineering Journal</i> , <b>2022</b> , 61, 675-700	6.1	3
86	Common ground type five level inverter with voltage boosting for PV applications.. <i>Scientific Reports</i> , <b>2022</b> , 12, 4924	4.9	1
85	Compact Quadratic Boost Switched-Capacitor Inverter. <i>IEEE Transactions on Industry Applications</i> , <b>2022</b> , 1-1	4.3	0
84	Delta Modulator Based Quantised State-Feedback Control of Networked Linear Systems. <i>IEEE Access</i> , <b>2022</b> , 10, 48865-48874	3.5	1
83	Multilevel Converters and Applications <b>2022</b> , 229-324		
82	A Multilevel Inverter Topology Using Diode Half-Bridge Circuit with Reduced Power Component. <i>Energies</i> , <b>2021</b> , 14, 7249	3.1	4
81	Bi-Furcated Stator Winding Configuration in Three-Phase Induction Generators for Wind Power Generation. <i>IEEE Access</i> , <b>2021</b> , 9, 153188-153198	3.5	0
80	A new seven level boost-type ANPC inverter topology for photovoltaic applications. <i>Scientific Reports</i> , <b>2021</b> , 11, 22487	4.9	2
79	Design of Delta-Sigma Based PID Controller for Networked Wind Energy Conversion Systems. <i>IEEE Transactions on Industry Applications</i> , <b>2021</b> , 1-1	4.3	0
78	Experimental validation of new self-voltage balanced 9L-ANPC inverter for photovoltaic applications. <i>Scientific Reports</i> , <b>2021</b> , 11, 5067	4.9	5
77	Design of uncertainty and disturbance estimator based tracking control for fuzzy switched systems. <i>IET Control Theory and Applications</i> , <b>2021</b> , 15, 1804-1817	2.5	1
76	Solar PV network installation standards and cost estimation guidelines for smart cities. <i>AEJ - Alexandria Engineering Journal</i> , <b>2021</b> , 61, 1277-1277	6.1	4
75	Compact Seven-Level Boost Type Inverter Topology. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2021</b> , 68, 1358-1362	3.5	11

74	Trinary Hybrid Cascaded H-Bridge Multilevel Inverter-Based Grid-Connected Solar Power Transfer System Supporting Critical Load. <i>IEEE Systems Journal</i> , <b>2021</b> , 15, 4116-4125	4.3	2
73	Small-Signal Stability Analysis for Microgrids Under Uncertainty Using MALANN Control Technique. <i>IEEE Systems Journal</i> , <b>2021</b> , 15, 3797-3807	4.3	1
72	A Single-Stage Common Ground Type Transformerless Five-Level Inverter Topology. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2021</b> , 1-1	5.6	7
71	Modified LUO High Gain DC-DC Converter With Minimal Capacitor Stress for Electric Vehicle Application. <i>IEEE Access</i> , <b>2021</b> , 9, 122335-122350	3.5	4
70	Robust Queen Bee Assisted Genetic Algorithm (QBGA) Optimized Fractional Order PID (FOPID) Controller for Not Necessarily Minimum Phase Power Converters. <i>IEEE Access</i> , <b>2021</b> , 9, 93331-93337	3.5	2
69	. <i>IEEE Access</i> , <b>2021</b> , 9, 88069-88084	3.5	2
68	Real-Time Implementation of Extended Kalman Filter Observer With Improved Speed Estimation for Sensorless Control. <i>IEEE Access</i> , <b>2021</b> , 9, 50452-50465	3.5	6
67	Futuristic Trends and Innovations for Examining the Performance of Course Learning Outcomes Using the Rasch Analytical Model. <i>Electronics (Switzerland)</i> , <b>2021</b> , 10, 727	2.6	1
66	A Five-Level Boosting Inverter for PV Application. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2021</b> , 9, 5016-5025	5.6	4
65	A Unique Unified Wind Speed Approach to Decision-Making for Dispersed Locations. <i>Sustainability</i> , <b>2021</b> , 13, 9340	3.6	3
64	Protograph LDPC-Coded BICM-ID With Irregular Mapping: An Emerging Transmission Technique for Massive Internet of Things. <i>IEEE Transactions on Green Communications and Networking</i> , <b>2021</b> , 5, 1051-1065	4.5	3
63	Switched Capacitor-Based 13L Inverter Topology for High-Frequency AC Power Distribution System. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2021</b> , 9, 5883-5894	5.6	6
62	A grasshopper optimization algorithm for optimal short-term hydrothermal scheduling. <i>Energy Reports</i> , <b>2021</b> , 7, 314-323	4.6	9
61	Reliability Analysis of Power Components in Restructured DC/DC Converters. <i>IEEE Transactions on Device and Materials Reliability</i> , <b>2021</b> , 1-1	1.6	0
60	Seven Level T-Type Switched Capacitor Inverter Topology for PV Applications. <i>IEEE Access</i> , <b>2021</b> , 9, 85049-85059	3.5	5
59	A New Hybrid Zeta-Boost Converter With Active Quad Switched Inductor for High Voltage Gain. <i>IEEE Access</i> , <b>2021</b> , 9, 20022-20034	3.5	2
58	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. <i>IEEE Access</i> , <b>2020</b> , 8, 87309-87328	3.5	16
57	Improved R-type seven-level switched capacitor inverter topology with Self-voltage balancing. <i>International Journal of Circuit Theory and Applications</i> , <b>2020</b> , 48, 1800-1819	2	9

56	. <i>IEEE Access</i> , <b>2020</b> , 8, 115685-115693	3.5	0
55	EPAW: Efficient Privacy Preserving Anonymous Mutual Authentication Scheme for Wireless Body Area Networks (WBANs). <i>IEEE Access</i> , <b>2020</b> , 8, 48576-48586	3.5	23
54	Fault Estimations and Non-Fragile Control Design for Fractional-Order Multi-Weighted Complex Dynamical Networks. <i>IEEE Access</i> , <b>2020</b> , 8, 39513-39524	3.5	2
53	Binary Hybrid Multilevel Inverter-Based Grid Integrated Solar Energy Conversion System With Damped SOGI Control. <i>IEEE Access</i> , <b>2020</b> , 8, 37214-37228	3.5	15
52	A Hybrid PV-Battery System for ON-Grid and OFF-Grid Applications□Controller-In-Loop Simulation Validation. <i>Energies</i> , <b>2020</b> , 13, 755	3.1	22
51	Experimental Investigations Conducted for the Characteristic Study of OM29 Phase Change Material and Its Incorporation in Photovoltaic Panel. <i>Energies</i> , <b>2020</b> , 13, 897	3.1	12
50	A State-of-the-Art Review on Conducted Electromagnetic Interference in Non-Isolated DC to DC Converters. <i>IEEE Access</i> , <b>2020</b> , 8, 2564-2577	3.5	9
49	Non-Fragile Fault Alarm-Based Hybrid Control for the Attitude Quadrotor Model With Actuator Saturation. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2020</b> , 67, 2647-2651	3.5	7
48	An Original Hybrid Multilevel DC-AC Converter Using Single-Double Source Unit for Medium Voltage Applications: Hardware Implementation and Investigation. <i>IEEE Access</i> , <b>2020</b> , 8, 71291-71301	3.5	7
47	Corrections to □An Improved Harmonics Mitigation Scheme for a Modular Multilevel Converter□ [2019 147244-147255]. <i>IEEE Access</i> , <b>2020</b> , 8, 65351-65351	3.5	
46	Identification of Water Hammering for Centrifugal Pump Drive Systems. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 2683	2.6	8
45	A Reduced Switch Count Boost Inverter (RSC- BI) Topology with Triple Voltage Gain <b>2020</b> ,		2
44	Repetitive control design for vehicle lateral dynamics with state-delay. <i>IET Control Theory and Applications</i> , <b>2020</b> , 14, 1619-1627	2.5	5
43	Tracking and disturbance attenuation control for stochastic switched systems with input delay. <i>IET Control Theory and Applications</i> , <b>2020</b> , 14, 2847-2856	2.5	2
42	Design and implementation of a new unity gain nine-level active neutral point clamped multilevel inverter topology. <i>IET Power Electronics</i> , <b>2020</b> , 13, 3204-3208	2.2	10
41	Single-phase hybrid multilevel inverter topology with low switching frequency modulation techniques for lower order harmonic elimination. <i>IET Power Electronics</i> , <b>2020</b> , 13, 4117-4127	2.2	7
40	Robust Backstepping Sliding Mode Control for a Quadrotor Trajectory Tracking Application. <i>IEEE Access</i> , <b>2020</b> , 8, 5515-5525	3.5	44
39	Frame-Angle Controlled Wavelet Modulated Inverter and Self-Recurrent Wavelet Neural Network-Based Maximum Power Point Tracking for Wind Energy Conversion System. <i>IEEE Access</i> , <b>2020</b> , 8, 171373-171386	3.5	3

38	A New Multilevel Inverter Topology With Reduced Power Components for Domestic Solar PV Applications. <i>IEEE Access</i> , <b>2020</b> , 8, 187483-187497	3.5	22
37	Triple-Mode Active-Passive Parallel Intermediate Links Converter With High Voltage Gain and Flexibility in Selection of Duty Cycles. <i>IEEE Access</i> , <b>2020</b> , 8, 134716-134727	3.5	7
36	Seven-level boosting active neutral point clamped inverter using cross-connected switched capacitor cells. <i>IET Power Electronics</i> , <b>2020</b> , 13, 1919-1924	2.2	8
35	Two-Tier Converter: A New Structure of High Gain DC-DC Converter with Reduced Voltage Stress <b>2020</b> ,		2
34	Novel Non-Isolated Quad-Switched Inductor Double-Switch Converter for DC Microgrid Application <b>2020</b> ,		4
33	<b>2020</b> ,		4
32	Delta-Modulator-Based Quantised Output Feedback Controller for Linear Networked Control Systems. <i>IEEE Access</i> , <b>2020</b> , 8, 175169-175179	3.5	4
31	. <i>IEEE Access</i> , <b>2020</b> , 8, 178130-178166	3.5	32
30	Fast charging converter and control algorithm for solar PV battery and electrical grid integrated electric vehicle charging station. <i>Automatika</i> , <b>2020</b> , 61, 614-625	1.6	14
29	. <i>IEEE Access</i> , <b>2020</b> , 8, 161787-161804	3.5	1
28	A Generalized Multilevel Inverter Topology With Reduction of Total Standing Voltage. <i>IEEE Access</i> , <b>2020</b> , 8, 168941-168950	3.5	8
27	An Adaptive Resistance Perturbation Based MPPT Algorithm for Photovoltaic Applications. <i>IEEE Access</i> , <b>2020</b> , 8, 196890-196901	3.5	6
26	. <i>IEEE Access</i> , <b>2020</b> , 8, 197730-197744	3.5	9
25	Sliding mode control as binary-based quantizers. <i>Asian Journal of Control</i> , <b>2020</b> , 22, 1090-1098	1.7	
24	Two-level quantised control systems: sliding-mode approach. <i>International Journal of Control</i> , <b>2020</b> , 93, 680-688	1.5	6
23	Reduced Switch Count Based Single Source 7L Boost Inverter Topology. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2020</b> , 67, 3252-3256	3.5	27
22	Cross Connected Compact Switched-Capacitor Multilevel Inverter (C3-SCMLI) Topology With Reduced Switch Count. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2020</b> , 67, 3287-3291	3.5	18
21	Robust Tracking and Disturbance Rejection Performance for Vehicle Dynamics. <i>IEEE Access</i> , <b>2019</b> , 7, 118598-118607	3.5	39

- 20 A Generalized One-Bit Control System Using a  $\Delta\Sigma$ -Quantizer. *IEEE Access*, **2019**, 7, 117009-117018
- 19 Stability and  $H_\infty$  Control of Discrete-Time Switched Systems via One-Step Ahead Lyapunov Function Approach **2019**, 75-90
- 18 Stability,  $H_2$ -Gain and Robust  $H_\infty$  Control of Switched Systems via Multistep Ahead Nonmonotonic Approach **2019**, 91-110
- 17 Robust  $H_\infty$  Filtering for Average Dwell-Time Switched Systems via a Nonmonotonic Function Approach **2019**, 111-130
- 16 Dissipative Dynamic Output Feedback Control for Switched Systems via Multistep Lyapunov Function Approach **2019**, 131-147
- 15 Robust  $H_\infty$  Control of Discrete-Time Nonhomogenous Markovian Jump Systems via Multistep Ahead Lyapunov Function Approach **2019**, 149-174
- 14 Robust  $H_\infty$  Filtering of Nonhomogeneous Markovian Jump Delay Systems via N-Step Ahead Lyapunov-Krasovskii Function Approach **2019**, 175-200
- 13 Hybrid delta modulator: stability analysis using sliding mode theory. *Systems Science and Control Engineering*, **2019**, 7, 234-242 2 0
- 12 Investigations of AC Microgrid Energy Management Systems Using Distributed Energy Resources and Plug-in Electric Vehicles. *Energies*, **2019**, 12, 2834 3.1 6
- 11 An Improved Harmonics Mitigation Scheme for a Modular Multilevel Converter. *IEEE Access*, **2019**, 7, 147244-147255 3.5 15
- 10 Investigation for Performances Comparison PI, Adaptive PI, Fuzzy Speed Control Induction Motor for Centrifugal Pumping Application **2019**, 5
- 9 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
- 8 Stabilisation of discrete-time polynomial fuzzy systems via a polynomial lyapunov approach. *International Journal of Systems Science*, **2018**, 49, 557-566 2.3 2
- 7 Reducing Conservatism in an  $H_\infty$  Robust State-Feedback Control Design of TS Fuzzy Systems: A Nonmonotonic Approach. *IEEE Transactions on Fuzzy Systems*, **2018**, 26, 386-390 8.3 28
- 6 An Adaptive Two-Level Quantizer for Networked Control Systems. *IEEE Transactions on Control Systems Technology*, **2017**, 25, 1084-1091 4.8 22
- 5 Robust  $H_2$  output feedback control of bidirectional inductive power transfer systems. *Archives of Control Sciences*, **2017**, 27, 41-62 5
- 4 The dynamic behaviour of data-driven EM and  $\bar{EM}$  in sliding mode control. *International Journal of Control*, **2017**, 90, 2406-2414 1.5 11
- 3 Robust output feedback controller design of discrete-time Takagi-Sugeno fuzzy systems: a non-monotonic Lyapunov approach. *IET Control Theory and Applications*, **2016**, 10, 545-553 2.5 27

2	Single-bit modulator based controller for capacitive power transfer system <b>2016</b> ,	2
1	Stability and Performance Analysis of Bit-Stream-Based Feedback Control Systems. <i>IEEE Transactions on Industrial Electronics</i> , <b>2015</b> , 62, 4319-4327	8,9 16