

# Ahmed Abokhalil

## List of Publications by Citations

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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.

65  
papers

755  
citations

17  
h-index

25  
g-index

72  
ext. papers

1,143  
ext. citations

3.6  
avg, IF

5.19  
L-index

#	Paper	IF	Citations
65	MPPT Control of Wind Generation Systems Based on Estimated Wind Speed Using SVR. <i>IEEE Transactions on Industrial Electronics</i> , <b>2008</b> , 55, 1489-1490	8.9	107
64	MHD Flow and Heat Transfer over Vertical Stretching Sheet with Heat Sink or Source Effect. <i>Symmetry</i> , <b>2019</b> , 11, 297	2.7	47
63	. <i>IEEE Access</i> , <b>2020</b> , 8, 10048-10060	3.5	46
62	Synchronization of DFIG output voltage to utility grid in wind power system. <i>Renewable Energy</i> , <b>2012</b> , 44, 193-198	8.1	37
61	Solar Energy Resource Analysis and Evaluation of Photovoltaic System Performance in Various Regions of Saudi Arabia. <i>Sustainability</i> , <b>2018</b> , 10, 1129	3.6	34
60	Simulation and experimental validation of fast adaptive particle swarm optimization strategy for photovoltaic global peak tracker under dynamic partial shading. <i>Renewable and Sustainable Energy Reviews</i> , <b>2020</b> , 124, 109719	16.2	31
59	Performance analysis of various hybrid renewable energy systems using battery, hydrogen, and pumped hydro-based storage units. <i>International Journal of Energy Research</i> , <b>2019</b> , 43, 6296-6321	4.5	25
58	Comparative Study of Passive and Active Islanding Detection Methods for PV Grid-Connected Systems. <i>Sustainability</i> , <b>2018</b> , 10, 1798	3.6	24
57	Optimum Resilient Operation and Control DC Microgrid Based Electric Vehicles Charging Station Powered by Renewable Energy Sources. <i>Energies</i> , <b>2019</b> , 12, 4240	3.1	22
56	Control of Back-to-Back PWM Converters for DFIG Wind Turbine Systems under Unbalanced Grid Voltage <b>2007</b> ,		22
55	NPC Based Design Optimization for a Net Zero Office Building in Hot Climates with PV Panels as Shading Device. <i>Energies</i> , <b>2018</b> , 11, 1391	3.1	21
54	A novel PSO strategy for improving dynamic change partial shading photovoltaic maximum power point tracker. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , <b>2020</b> , 1-15	1.6	20
53	Current controller design for DFIG-based wind turbines using state feedback control. <i>IET Renewable Power Generation</i> , <b>2019</b> , 13, 1938-1948	2.9	20
52	Dynamic Modeling of Wind Turbines Based on Estimated Wind Speed under Turbulent Conditions. <i>Energies</i> , <b>2019</b> , 12, 1907	3.1	19
51	Design of State Feedback Current Controller for Fast Synchronization of DFIG in Wind Power Generation Systems. <i>Energies</i> , <b>2019</b> , 12, 2427	3.1	19
50	An insight to the energy policy of GCC countries to meet renewable energy targets of 2030. <i>Energy Policy</i> , <b>2020</b> , 147, 111864	7.2	19
49	Sensorless Active and Reactive Control for DFIG Wind Turbines Using Opposition-Based Learning Technique. <i>Sustainability</i> , <b>2020</b> , 12, 3583	3.6	17

48	Photovoltaic maximum power point tracking under dynamic partial shading changes by novel adaptive particle swarm optimization strategy. <i>Transactions of the Institute of Measurement and Control</i> , <b>2020</b> , 42, 104-115	1.8	16
47	A novel scanning bat algorithm strategy for maximum power point tracker of partially shaded photovoltaic energy systems. <i>Ain Shams Engineering Journal</i> , <b>2020</b> , 11, 1093-1103	4.4	15
46	Dynamic Control of a DFIG Wind Power Generation System to Mitigate Unbalanced Grid Voltage. <i>IEEE Access</i> , <b>2020</b> , 8, 39091-39103	3.5	12
45	Model-based optimal efficiency control of induction generators for wind power systems <b>2011</b> ,		12
44	Thermodynamic and exergoeconomic analyses and optimization of an auxiliary tri-generation system for a ship utilizing exhaust gases from its engine. <i>Journal of Cleaner Production</i> , <b>2021</b> , 287, 125012	10.3	12
43	Wind speed characteristics and energy potential for selected sites in Saudi Arabia. <i>Journal of King Saud University, Engineering Sciences</i> , <b>2021</b> , 33, 119-128	2.2	11
42	A new wind turbine simulator using a squirrel-cage motor for wind power generation systems <b>2011</b> ,		10
41	MPPT for a PV Grid-Connected System to Improve Efficiency under Partial Shading Conditions. <i>Sustainability</i> , <b>2020</b> , 12, 10310	3.6	8
40	Maximum Power Point Tracking of PV Systems under Partial Shading Conditions Based on Opposition-Based Learning Firefly Algorithm. <i>Sustainability</i> , <b>2021</b> , 13, 2656	3.6	8
39	Multi-Port PWM DC-DC Power Converter for Renewable Energy Applications. <i>Energies</i> , <b>2021</b> , 14, 3490	3.1	8
38	Electric vehicle impact on energy industry, policy, technical barriers, and power systems. <i>International Journal of Thermofluids</i> , <b>2022</b> , 13, 100134	5.6	7
37	Energy-Saving of Battery Electric Vehicle Powertrain and Efficiency Improvement during Different Standard Driving Cycles. <i>Sustainability</i> , <b>2020</b> , 12, 10466	3.6	6
36	A New Single-Phase Direct Frequency Controller Having Reduced Switching Count without Zero-Crossing Detector for Induction Heating System. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 430	2.6	6
35	Sensorless control for DFIG wind turbines based on support vector regression <b>2012</b> ,		6
34	Loss Minimization Control for Doubly-Fed Induction Generators in Variable Speed Wind Turbines <b>2007</b> ,		6
33	Performance enhancement of a humidification-dehumidification desalination system. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2020</b> , 140, 309-319	4.1	6
32	Economic analysis of cross-breed power arrangement for Salalah region in the Al-Khareef season. <i>International Journal of Sustainable Energy</i> , <b>2021</b> , 40, 188-206	2.7	6
31	Torque Ripple Elimination for Doubly-Fed Induction Motors under Unbalanced Source Voltage <b>2007</b> ,		5

30	Sensorless control for PMSM using model reference adaptive system. <i>International Transactions on Electrical Energy Systems</i> , <b>2021</b> , 31, e12733	2.2	5
29	MPPT of Permanent Magnet Synchronous Generator in Tidal Energy Systems Using Support Vector Regression. <i>Sustainability</i> , <b>2021</b> , 13, 2223	3.6	5
28	Intelligent and Optimized Microgrids for Future Supply Power from Renewable Energy Resources: A Review. <i>Energies</i> , <b>2022</b> , 15, 3359	3.1	5
27	Hybrid control of a multi-area multi-machine power system with FACTS devices using non-linear modelling. <i>IET Generation, Transmission and Distribution</i> , <b>2020</b> , 14, 1993-2003	2.5	4
26	Condition Monitoring of DC-Link Electrolytic Capacitors in PWM Power Converters Using OBL Method. <i>Sustainability</i> , <b>2020</b> , 12, 3719	3.6	4
25	SVR-based Wind Speed Estimation for Power Control of Wind Energy Generation System <b>2007</b> ,		4
24	Phase change materials based on nanoparticles for enhancing the performance of solar photovoltaic panels: A review. <i>Journal of Energy Storage</i> , <b>2022</b> , 48, 103937	7.8	4
23	A Review of DC-AC Converters for Electric Vehicle Applications. <i>Energies</i> , <b>2022</b> , 15, 1241	3.1	4
22	Water-Pumping Using Powered Solar System - More Than an Environmentally Alternative: The Case of Toshka, Egypt. <i>Journal of Energy and Natural Resources</i> , <b>2016</b> , 5, 19	1.2	4
21	A Sensorless Wind Speed and Rotor Position Control of PMSG in Wind Power Generation Systems. <i>Sustainability</i> , <b>2020</b> , 12, 8481	3.6	4
20	Maximum Power Point Tracking for a PV System Using Tuned Support Vector Regression by Particle Swarm Optimization. <i>Journal of Engineering Research</i> , <b>2020</b> , 8,	2	3
19	Maximum Power Point Tracking Strategies of Grid-Connected Wind Energy Conversion Systems. <i>Green Energy and Technology</i> , <b>2021</b> , 193-225	0.6	3
18	Real-Time Reliability Monitoring of DC-Link Capacitors in Back-to-Back Converters. <i>Energies</i> , <b>2019</b> , 12, 2369	3.1	2
17	A novel islanding detection method for three-phase photovoltaic generation systems <b>2013</b> ,		2
16	Energy Management and Control Strategy of DC Microgrid Including Multiple Energy Storage Systems <b>2019</b> ,		2
15	A review of solar chimney for natural ventilation of residential and non-residential buildings. <i>Sustainable Energy Technologies and Assessments</i> , <b>2022</b> , 52, 102082	4.7	2
14	Battery thermal management systems based on nanofluids for electric vehicles. <i>Journal of Energy Storage</i> , <b>2022</b> , 50, 104385	7.8	2
13	Achieving Cost Minimization and Fairness in Multi-Supplier Smart Grid Environment. <i>Energies</i> , <b>2018</b> , 11, 1367	3.1	1

12	Grid Connection of Doubly-Fed Induction Generators in Wind Energy Conversion System <b>2006</b> ,		1
11	Hydrogen production using solar energy and injection into a solid oxide fuel cell for CO2 emission reduction; Thermoeconomic assessment and tri-objective optimization. <i>Sustainable Energy Technologies and Assessments</i> , <b>2022</b> , 50, 101767	4.7	1
10	Modeling and control of unbalanced and distorted grid voltage of grid-connected DFIG wind turbine. <i>International Transactions on Electrical Energy Systems</i> , <b>2021</b> , 31, e12857	2.2	1
9	Robust Control Based on H <sub>∞</sub> and Linear Quadratic Gaussian of Load Frequency Control of Power Systems Integrated with Wind Energy System. <i>Green Energy and Technology</i> , <b>2021</b> , 73-86	0.6	1
8	Thermal management systems based on heat pipes for batteries in EVs/HEVs. <i>Journal of Energy Storage</i> , <b>2022</b> , 51, 104384	7.8	1
7	A modified active frequency islanding detection method based on load frequency and chopping fraction changes. <i>International Transactions on Electrical Energy Systems</i> , e13033	2.2	0
6	Wind Power Plants Control Systems Based on SCADA System. <i>Green Energy and Technology</i> , <b>2021</b> , 109-1516	15.6	0
5	Real-time bald eagle search approach for tracking the maximum generated power of wind energy conversion system. <i>Energy</i> , <b>2022</b> , 249, 123661	7.9	0
4	Coupling DFIG-Based Wind Turbines with the Grid under Voltage Imbalance Conditions. <i>Sustainability</i> , <b>2022</b> , 14, 5076	3.6	0
3	Voltage Source Converter Control Under Unbalanced Grid Voltage. <i>Green Energy and Technology</i> , <b>2021</b> , 57-72	0.6	
2	Design and Comprehensive Analysis of Maximum Power Point Tracking Techniques in Photovoltaic Systems. <i>Green Energy and Technology</i> , <b>2021</b> , 253-284	0.6	
1	Different Approaches for Efficiency Optimization of DFIG Wind Power Generation Systems. <i>Green Energy and Technology</i> , <b>2021</b> , 35-56	0.6	