

# Aziz Derouich

## List of Publications by Year in descending order

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Version: 2024-02-01

65  
papers

1,668  
citations

279487

23  
h-index

329751

37  
g-index

68  
all docs

68  
docs citations

68  
times ranked

971  
citing authors

#	ARTICLE	IF	CITATIONS
1	Observer backstepping control of DFIG-Generators for wind turbines variable-speed: FPGA-based implementation. <i>Renewable Energy</i> , 2015, 81, 903-917.	4.3	128
2	Evaluation of wind energy potential in Morocco's coastal regions. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 72, 311-324.	8.2	124
3	Modeling of Photovoltaic System with Modified Incremental Conductance Algorithm for Fast Changes of Irradiance. <i>International Journal of Photoenergy</i> , 2018, 2018, 1-13.	1.4	114
4	Modern improvement techniques of direct torque control for induction motor drives - a review. <i>Protection and Control of Modern Power Systems</i> , 2019, 4, .	4.3	76
5	Improved DTC strategy of doubly fed induction motor using fuzzy logic controller. <i>Energy Reports</i> , 2019, 5, 271-279.	2.5	69
6	Integral sliding mode control for DFIG based WECS with MPPT based on artificial neural network under a real wind profile. <i>Energy Reports</i> , 2021, 7, 4809-4824.	2.5	67
7	Development of a low-cost PV system using an improved INC algorithm and a PV panel Proteus model. <i>Journal of Cleaner Production</i> , 2018, 204, 355-365.	4.6	60
8	Design and construction of a test bench to investigate the potential of floating PV systems. <i>Journal of Cleaner Production</i> , 2021, 278, 123917.	4.6	59
9	MIL and SIL and PIL tests for MPPT algorithm. <i>Cogent Engineering</i> , 2017, 4, 1378475.	1.1	57
10	A simple and low-cost active dual-axis solar tracker. <i>Energy Science and Engineering</i> , 2018, 6, 607-620.	1.9	51
11	Optimization and control of water pumping PV systems using fuzzy logic controller. <i>Energy Reports</i> , 2019, 5, 853-865.	2.5	48
12	Low-cost virtual instrumentation of PV panel characteristics using Excel and Arduino in comparison with traditional instrumentation. <i>Renewables: Wind, Water, and Solar</i> , 2018, 5, .	2.5	42
13	Modeling of Photovoltaic Panel by using Proteus. <i>Journal of Engineering Science and Technology Review</i> , 2017, 10, 8-13.	0.2	39
14	Direct torque control of doubly fed induction motor using three-level NPC inverter. <i>Protection and Control of Modern Power Systems</i> , 2019, 4, .	4.3	36
15	A New Strategy-Based PID Controller Optimized by Genetic Algorithm for DTC of the Doubly Fed Induction Motor. <i>Systems</i> , 2021, 9, 37.	1.2	35
16	Power control of variable speed wind turbine based on doubly fed induction generator using indirect field-oriented control with fuzzy logic controllers for performance optimization. <i>Energy Science and Engineering</i> , 2018, 6, 408-423.	1.9	33
17	Study of a Low-Cost PV Emulator for Testing MPPT Algorithm Under Fast Irradiation and Temperature Change. <i>Technology and Economics of Smart Grids and Sustainable Energy</i> , 2018, 3, 1.	1.8	31
18	Open hardware/software test bench for solar tracker with virtual instrumentation. <i>Sustainable Energy Technologies and Assessments</i> , 2019, 31, 9-16.	1.7	30

#	ARTICLE	IF	CITATIONS
19	A novel hybrid GWO-PSO-based maximum power point tracking for photovoltaic systems operating under partial shading conditions. <i>Scientific Reports</i> , 2022, 12, .	1.6	30
20	Improvement control of photovoltaic based water pumping system without energy storage. <i>Solar Energy</i> , 2019, 190, 319-328.	2.9	29
21	An improved control strategy for charging solar batteries in off-grid photovoltaic systems. <i>Solar Energy</i> , 2021, 220, 927-941.	2.9	28
22	Shading Effect to Energy Withdrawn from the Photovoltaic Panel and Implementation of DMPPT Using C Language. <i>International Review of Automatic Control</i> , 2016, 9, 88.	0.2	27
23	Speed variable adaptive backstepping control of the doubly-fed induction machine drive. <i>International Journal of Automation and Control</i> , 2016, 10, 12.	0.3	24
24	SEITI RMLab: A costless and effective remote measurement laboratory in electrical engineering. <i>International Journal of Electrical Engineering and Education</i> , 2019, 56, 3-23.	0.4	24
25	Trusted Simulation Using Proteus Model for a PV System: Test Case of an Improved HC MPPT Algorithm. <i>Energies</i> , 2020, 13, 1943.	1.6	22
26	Proposal and implementation of a novel perturb and observe algorithm using embedded software. , 2015, , .		21
27	A comparative study between FOC and DTC control of the Doubly Fed Induction Motor (DFIM). , 2017, , .		20
28	Enhancement of the Direct Torque Control by using Artificial Neuron Network for a Doubly Fed Induction Motor. <i>Intelligent Systems With Applications</i> , 2022, 13, 200060.	1.9	20
29	Nonlinear backstepping control for PMSG wind turbine used on the real wind profile of the Dakhla-Morocco city. <i>International Transactions on Electrical Energy Systems</i> , 2020, 30, e12297.	1.2	18
30	Real-time virtual instrumentation of Arduino and LabVIEW based PV panel characteristics. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018, 161, 012019.	0.2	17
31	High-Performance Standalone Photovoltaic Water Pumping System Using Induction Motor. <i>International Journal of Photoenergy</i> , 2020, 2020, 1-13.	1.4	17
32	A new intelligent adaptation mechanism of MRAS based on a genetic algorithm applied to speed sensorless direct torque control for induction motor. <i>International Journal of Dynamics and Control</i> , 2022, 10, 2095-2110.	1.5	17
33	Real-time implementation in dSPACE of DTC-backstepping for a doubly fed induction motor. <i>European Physical Journal Plus</i> , 2019, 134, 1.	1.2	16
34	Performance analysis of a robust adaptive fuzzy logic controller for wind turbine power limitation. <i>Journal of Cleaner Production</i> , 2020, 265, 121659.	4.6	16
35	Robust adaptive Backstepping control approach of DFIG generators for wind turbines variable-speed. , 2014, , .		15
36	Direct Torque Control Strategy Based on Fuzzy Logic Controller for a Doubly Fed Induction Motor. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018, 161, 012004.	0.2	15

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37	Sustainable production of wind energy in the main Morocco's sites using permanent magnet synchronous generators. International Transactions on Electrical Energy Systems, 2020, 30, e12390.	1.2	14
38	A New Hybrid Ant Colony Optimization Based PID of the Direct Torque Control for a Doubly Fed Induction Motor. World Electric Vehicle Journal, 2022, 13, 78.	1.6	12
39	Comparison between Kalman filter and incremental conductance algorithm for optimizing photovoltaic energy. Renewables: Wind, Water, and Solar, 2017, 4, .	2.5	10
40	Intelligent control of induction motor for photovoltaic water pumping system. SN Applied Sciences, 2021, 3, 1.	1.5	10
41	An Improved Performance Variable Speed Wind Turbine Driving a Doubly Fed Induction Generator Using Sliding Mode Strategy. , 2020, , .		10
42	Modeling and Simulation of a Photovoltaic Panel Based on a Triple Junction Cells for a Nanosatellite. , 2018, , .		9
43	Optimal Control of Induction Motor for Photovoltaic Water Pumping System. Technology and Economics of Smart Grids and Sustainable Energy, 2020, 5, 1.	1.8	9
44	Field Oriented Control of Doubly Fed Induction Motor using Speed Sliding Mode Controller. E3S Web of Conferences, 2021, 229, 01061.	0.2	9
45	Contribution to the Improvement of the Performances of Doubly Fed Induction Machine Functioning in Motor Mode By the DTC Control. International Journal of Power Electronics and Drive Systems, 2017, 8, 1117.	0.5	9
46	Investigation of Partial Shading Scenarios on a Photovoltaic Array's Characteristics. Electronics (Switzerland), 2022, 11, 96.	1.8	9
47	Rotor Field Oriented Control of Doubly Fed Induction Motor. , 2019, , .		8
48	Global MPPT of photovoltaic system based on scanning method under partial shading condition. SN Applied Sciences, 2020, 2, 1.	1.5	8
49	Study and comparison results of the field oriented control for photovoltaic water pumping system applied on two cities in Morocco. Bulletin of Electrical Engineering and Informatics, 2019, 8, .	0.6	8
50	DTC-SVM Control for Permanent Magnet Synchronous Generator based Variable Speed Wind Turbine. International Journal of Power Electronics and Drive Systems, 2017, 8, 1732.	0.5	7
51	A low-cost PV Emulator for testing MPPT algorithm. IOP Conference Series: Earth and Environmental Science, 2018, 161, 012018.	0.2	6
52	Real-Time Simulation and Analysis of the Induction Machine Performances Operating at Flux Constant. International Journal of Advanced Computer Science and Applications, 2014, 5, .	0.5	6
53	Development of an Improved GMPPT Based on Scanning Method for PV System Operating under a Dynamic Partial Shading Conditions. Technology and Economics of Smart Grids and Sustainable Energy, 2021, 6, 1.	1.8	6
54	Comparative Study Between Backstepping Adaptive and Field Oriented Controls for Doubly Fed Induction Motor. European Journal of Electrical Engineering, 2020, 22, 209-221.	1.1	5

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55	Performance improvement of the variable speed wind turbine driving a DFIG using nonlinear control strategies. International Journal of Power Electronics and Drive Systems, 2021, 12, 2470.	0.5	5
56	Study and implementation of the MPPT strategy applied to a variable speed wind system based on DFIG with PWM-vector control. , 2016, , .		4
57	Determination of the maximum power point in a photovoltaic panel using Kalman Filter on the environment PSIM. , 2016, , .		4
58	A Comparative Study of the Most Influential Learning Styles used in Adaptive Educational Environments. International Journal of Advanced Computer Science and Applications, 2019, 10, .	0.5	4
59	IMS Compliant Ontological Learner Model for Adaptive E-Learning Environments. International Journal of Emerging Technologies in Learning, 2019, 14, 97.	0.8	3
60	Fuzzy-PI Controller for Photovoltaic Water Pumping Systems. , 2019, , .		3
61	Embedded Implementation of Improved IFOC for Solar Photovoltaic Water Pumping System Using dSpace. Green Energy and Technology, 2021, , 435-456.	0.4	3
62	Internet of Things-Based Solar Tracker System. Green Energy and Technology, 2021, , 75-95.	0.4	2
63	Optimized PID Controller by Ant Colony Optimization of DTC for Doubly Fed Induction Motor. Lecture Notes in Networks and Systems, 2022, , 767-778.	0.5	2
64	Erratum to "Modeling of Photovoltaic System with Modified Incremental Conductance Algorithm for Fast Changes of Irradiance". International Journal of Photoenergy, 2019, 2019, 1-2.	1.4	1
65	Design and Implementation of an Open Source and Low-Cost Nanosatellite Platform. Lecture Notes in Networks and Systems, 2021, , 421-432.	0.5	1