

Adel Merabet

List of Publications by Year in descending order

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85
papers

1,927
citations

361413

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289244

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87
all docs

87
docs citations

87
times ranked

1586
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy Management and Control System for Laboratory Scale Microgrid Based Wind-PV-Battery. IEEE Transactions on Sustainable Energy, 2017, 8, 145-154.	8.8	331
2	Technico-economic analysis of off grid solar PV/Fuel cell energy system for residential community in desert region. International Journal of Hydrogen Energy, 2020, 45, 11460-11470.	7.1	214
3	Grid-tied and stand-alone hybrid solar power system for desalination plant. Desalination, 2018, 435, 172-180.	8.2	98
4	Techno-economical optimization of an integrated stand-alone hybrid solar PV tracking and diesel generator power system in Khorfakkan, United Arab Emirates. Energy, 2020, 190, 116475.	8.8	88
5	Analysis of cooling load on commercial building in UAE climate using building integrated photovoltaic facade system. Solar Energy, 2020, 199, 617-629.	6.1	70
6	Implementation of Sliding Mode Control System for Generator and Grid Sides Control of Wind Energy Conversion System. IEEE Transactions on Sustainable Energy, 2016, 7, 1327-1335.	8.8	67
7	Robust Feedback Linearizing Control With Sliding Mode Compensation for a Grid-Connected Photovoltaic Inverter System Under Unbalanced Grid Voltages. IEEE Journal of Photovoltaics, 2017, 7, 828-838.	2.5	65
8	Real-Time Control of Active and Reactive Power for Doubly Fed Induction Generator (DFIG)-Based Wind Energy Conversion System. Energies, 2015, 8, 10389-10408.	3.1	58
9	Robust Model Predictive Control for Photovoltaic Inverter System With Grid Fault Ride-Through Capability. IEEE Transactions on Smart Grid, 2018, 9, 5699-5709.	9.0	49
10	A Comparative Analysis of the ARIMA and LSTM Predictive Models and Their Effectiveness for Predicting Wind Speed. Energies, 2021, 14, 6782.	3.1	47
11	Solar Power Forecasting Using Deep Learning Techniques. IEEE Access, 2022, 10, 31692-31698.	4.2	47
12	Powerâ€current controller based sliding mode control for DFIGâ€wind energy conversion system. IET Renewable Power Generation, 2018, 12, 1155-1163.	3.1	40
13	Intelligent and Optimized Microgrids for Future Supply Power from Renewable Energy Resources: A Review. Energies, 2022, 15, 3359.	3.1	39
14	Energy management system for optimal cost and storage utilization of renewable hybrid energy microgrid. Energy Conversion and Management, 2022, 252, 115116.	9.2	38
15	Optimization of wind/solar energy microgrid by division algorithm considering human health and environmental impacts for power-water cogeneration. Energy Conversion and Management, 2022, 252, 115064.	9.2	35
16	Application of Long-Short-Term-Memory Recurrent Neural Networks to Forecast Wind Speed. Applied Sciences (Switzerland), 2021, 11, 2387.	2.5	32
17	Elimination of Low-Frequency Ripples and Regulation of Neutral-Point Voltage in Stacked Multicell Converters. IEEE Transactions on Power Electronics, 2017, 32, 164-175.	7.9	31
18	Short-term building electrical load forecasting using adaptive neuro-fuzzy inference system (ANFIS). Journal of Building Engineering, 2022, 52, 104323.	3.4	30

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19	Speed control of sensorless induction generator by artificial neural network in wind energy conversion system. IET Renewable Power Generation, 2016, 10, 1597-1606.	3.1	26
20	Dual-mode operation based second-order sliding mode control for grid-connected solar photovoltaic energy system. International Journal of Electrical Power and Energy Systems, 2019, 111, 459-474.	5.5	21
21	Signal-Based Sensor Fault Detection and Isolation for PMSG in Wind Energy Conversion Systems. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 2403-2412.	4.7	20
22	Artificial Neural Network and Kalman Filter for Estimation and Control in Standalone Induction Generator Wind Energy DC Microgrid. Energies, 2020, 13, 1743.	3.1	20
23	Torque and pitch angle control for variable speed wind turbines in all operating regimes. , 2011, , .		18
24	Modeling and optimization of hybrid solar-diesel-battery power system. , 2017, , .		18
25	Modeling solar photovoltaic cell and simulated performance analysis of a 250W PV module. , 2013, , .		17
26	Wind turbine emulator using OPAL-RT real-time HIL/RCP laboratory. , 2014, , .		17
27	Design and implementation of a fractional nonlinear synergetic controller for generator and grid converters of wind energy conversion system. Energy, 2019, 186, 115861.	8.8	17
28	Optimization of Wind Energy Battery Storage Microgrid by Division Algorithm Considering Cumulative Exergy Demand for Power-Water Cogeneration. Energies, 2021, 14, 3777.	3.1	17
29	Bacteria foraging optimisation algorithm based optimal control for doublyâ€fed induction generator wind energy system. IET Renewable Power Generation, 2020, 14, 1850-1859.	3.1	17
30	Nonlinear Predictive Control with Disturbance Observer for Induction Motor Drive. , 2006, , .		16
31	Power Balance Modes and Dynamic Grid Power Flow in Solar PV and Battery Storage Experimental DC-Link Microgrid. IEEE Access, 2020, 8, 219847-219858.	4.2	16
32	Torque and state estimation for realâ€time implementation of multivariable control in sensorless induction motor drives. IET Electric Power Applications, 2017, 11, 653-663.	1.8	15
33	Time Series Analysis of Electricity Consumption Forecasting Using ARIMA Model. , 2021, , .		15
34	Adaptive sliding mode speed control for wind turbine systems. , 2011, , .		13
35	Adaptive Sliding Mode Speed Control for Wind Energy Experimental System. Energies, 2018, 11, 2238.	3.1	12
36	Review of Latest Advances and Prospects of Energy Storage Systems: Considering Economic, Reliability, Sizing, and Environmental Impacts Approach. Clean Technologies, 2022, 4, 477-501.	4.2	12

#	ARTICLE	IF	CITATIONS
37	Improved Feedback Control and Optimal Management for Battery Storage System in Microgrid Operating in Bi-Directional Grid Power Transfer. IEEE Transactions on Sustainable Energy, 2022, 13, 2106-2118.	8.8	12
38	Cascaded predictive controller design for speed control and load torque rejection of induction motor. , 2008, , .		11
39	Control of Simulated Solar PV Microgrid Operating in Grid-Tied and Islanded Modes. , 2018, , .		11
40	Modeling and Control of Three-level Bi-directional Flying Capacitor DC- DC converter in DC microgrid. , 2019, , .		11
41	Implementation of Water Cycle Optimization for Parametric Tuning of PI Controllers in Solar PV and Battery Storage Microgrid System. IEEE Systems Journal, 2022, 16, 1751-1762.	4.6	11
42	Sequential Phase-Shifted Model Predictive Control for a Five-Level Flying Capacitor Converter. , 2019, , .		10
43	Cascade Second Order Sliding Mode Control for Permanent Magnet Synchronous Motor Drive. Electronics (Switzerland), 2019, 8, 1508.	3.1	10
44	Impact of battery degradation on energy cost and carbon footprint of smart homes. Electric Power Systems Research, 2022, 209, 107955.	3.6	10
45	The role of the solar-based stand-alone microgrid to enhance environmental sustainability: A case study. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2022, 44, 6523-6536.	2.3	10
46	Design, Optimization and Control of Standalone Solar PV/Fuel Cell Hybrid Power System. , 2017, , .		9
47	Nonlinear model predictive controller with state observer for speed sensorless induction generator wind turbine systems. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2013, 227, 198-213.	1.0	8
48	Multivariable control algorithm for laboratory experiments in wind energy conversion. Renewable Energy, 2015, 83, 162-170.	8.9	8
49	Solar Photovoltaic Microgrid Simulation Platform for Energy Management Testing. , 2019, , .		8
50	Robust decoupling strategy for speed control of permanent magnet synchronous generator in wind energy conversion systems. , 2011, , .		7
51	A rotor speed estimation algorithm in variable speed permanent magnet synchronous generator wind energy conversion system. International Journal of Robust and Nonlinear Control, 2013, 23, 1880-1890.	3.7	6
52	Online parameter identification for a DFIG driven wind turbine generator based on recursive least squares algorithm. , 2015, , .		6
53	Fixed Frequency Model Predictive Control of Three-level Bi-directional Flying Capacitor DC-DC converter in DC microgrid. , 2019, , .		6
54	Experimental evaluation of water cycle technique for control parameters optimization of double-fed induction generator-based wind turbine. Engineering Science and Technology, an International Journal, 2021, 24, 890-898.	3.2	6

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55	An Adaptive Dynamic Reference Control for Power Converters in a Microgrid. IEEE Transactions on Power Electronics, 2022, 37, 9164-9174.	7.9	6
56	Optimal battery cycling strategies in workplaces with electric vehicle chargers, energy storage systems and renewable energy generation. IET Renewable Power Generation, 2022, 16, 1121-1133.	3.1	6
57	Robust nonlinear predictive control with modeling uncertainties and unknown disturbance for single-link flexible joint robot. , 2008, , .		5
58	Maximum power point tracking and frequency control for hybrid wind diesel system supplying an isolated load. , 2012, , .		5
59	Power electronics circuit for speed control of experimental wind turbine. , 2012, , .		5
60	Power Management System for Load Banks Supplied by Pitch Controlled Wind Turbine System. Applied Sciences (Switzerland), 2012, 2, 801-815.	2.5	5
61	Finite Control Set Model Predictive Control of an Active Nested Neutral-Point-Clamped Converter. , 2018, , .		5
62	Central Power Management System for Hybrid PV/Battery AC-Bus Microgrid Using Typhoon HIL. , 2019, , .		5
63	<sc>Dual-layer</sc> power scheduling strategy for <sc>EV&ESS&controllable</sc> load in <sc>bi-directional</sc> dynamic markets for <sc>low-cost</sc> implementation. International Transactions on Electrical Energy Systems, 2021, 31, .	1.9	5
64	Integral sliding mode control for back-to-back converter of DFIG wind turbine system. Journal of Engineering, 2020, 2020, 834-842.	1.1	5
65	Advanced Control for Electric Drives: Current Challenges and Future Perspectives. Electronics (Switzerland), 2020, 9, 1762.	3.1	4
66	Coupling DFIG-Based Wind Turbines with the Grid under Voltage Imbalance Conditions. Sustainability, 2022, 14, 5076.	3.2	4
67	Control system for hybrid wind diesel based microgrid. , 2013, , .		3
68	Standalone wind energy conversion system using OPAL-RT real-time HIL/RCP laboratory. , 2016, , .		3
69	Control system simulation for stand-alone hybrid wind diesel system. , 2013, , .		2
70	Second-Order Sliding Mode Control for Variable Speed Wind Turbine Experiment System. Renewable Energy and Power Quality Journal, 0, , 478-482.	0.2	2
71	Advanced Nonlinear Control of Robot Manipulators. , 0, , .		2
72	Predictive tracking controller for induction generator in variable speed wind energy conversion systems. , 2010, , .		1

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73	Predictive speed controller for laboratory size wind turbine experiment system. , 2014, , .		1
74	Feedback linearization control with sliding mode disturbance compensator for PMSG based wind energy conversion system. , 2015, , .		1
75	Real-time platform for controlling DC microgrid based standalone solar energy conversion system. , 2016, , .		1
76	Control Architecture of Solar Photovoltaic AC-Bus Microgrid with Battery Storage System. , 2019, , .		1
77	Time Series Analysis and Forecasting of Wind Speed Data. , 2019, , .		1
78	Discussion on: "Observer Scheme for State and Parameter Estimation in Asynchronous Motors with Application to Speed Control" European Journal of Control, 2006, 12, 417-418.	2.6	0
79	Robust cascaded feedback linearizing control of nonholonomic mobile robot. , 2010, , .		0
80	Modelling and control of a pitch controlled wind turbine experiment workstation. , 2012, , .		0
81	Sliding mode speed control for wind energy conversion systems. , 2015, , .		0
82	Control System for Low-Voltage Ride-Through of Grid-Tied Wind and Photovoltaic Energy Conversion Systems. , 2017, , .		0
83	Low-Voltage Ride-Through Operation of Permanent Magnet Synchronous Generator with Active and Reactive Power Injection. , 2018, , .		0
84	OPAL-RT kullanarak DFIG tabanlı rüzgar enerji sisteminde gÃ¼ç kontrolÃ¼. European Journal of Science and Technology, 0, , .	0.5	0
85	Grid Connected Solar PV System for Green House Desalination Plant. , 2022, , .		0