

# Athanasios Karlis

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

707  
citations

933447

10  
h-index

580821

25  
g-index

50  
all docs

50  
docs citations

50  
times ranked

654  
citing authors

#	ARTICLE	IF	CITATIONS
1	New Maximum Power Point Tracker for PV Arrays Using Fuzzy Controller in Close Cooperation With Fuzzy Cognitive Networks. IEEE Transactions on Energy Conversion, 2006, 21, 793-803.	5.2	264
2	A novel maximum power point tracking method for PV systems using fuzzy cognitive networks (FCN). Electric Power Systems Research, 2007, 77, 315-327.	3.6	80
3	A Fuzzy Energy Management Strategy for the Coordination of Electric Vehicle Charging in Low Voltage Distribution Grids. Energies, 2020, 13, 3709.	3.1	34
4	Digital Twin in Electrical Machine Control and Predictive Maintenance: State-of-the-Art and Future Prospects. Energies, 2021, 14, 5933.	3.1	34
5	An intelligent decentralized energy management strategy for the optimal electric vehicles' charging in low-voltage islanded microgrids. International Journal of Energy Research, 2022, 46, 2988-3016.	4.5	33
6	Study on fault diagnosis of broken rotor bars in squirrel cage induction motors: a multi-agent system approach using intelligent classifiers. IET Electric Power Applications, 2020, 14, 245-255.	1.8	28
7	A systematic assessment of the technical feasibility and economic viability of small hydroelectric system installations. Renewable Energy, 2000, 20, 253-262.	8.9	27
8	A combined control strategy of a DFIG based on a sensorless power control through modified phase-locked loop and fuzzy logic controllers. Renewable Energy, 2018, 121, 489-501.	8.9	25
9	A bidirectional dual active bridge converter for V2G applications based on DC microgrid. , 2018, , .		16
10	A review on electrical machines insulation aging and its relation to the power electronics arrangements with emphasis on wind turbine generators. Renewable and Sustainable Energy Reviews, 2011, 15, 1748-1752.	16.4	12
11	Advances in Power Quality Analysis Techniques for Electrical Machines and Drives: A Review. Energies, 2022, 15, 1909.	3.1	12
12	Review of Segmented Stator and Rotor Designs for AC Electric Machines. , 2020, , .		11
13	Wind energy surveying and technoeconomic assessment of identifiable WEC system installations. Energy Conversion and Management, 2001, 42, 49-67.	9.2	10
14	Modeling and Simulation of a Series Parallel Hybrid Electric Vehicle Using REVS. Proceedings of the American Control Conference, 2007, , .	0.0	10
15	A Novel Control Algorithm for DC Motors Supplied by PVs Using Fuzzy Cognitive Networks. IEEE Access, 2018, 6, 24866-24876.	4.2	10
16	Energy consumption estimation on lift systems: The advantages of VVVF drives. , 2014, , .		7
17	Fuzzy Cognitive Networks for Maximum Power Point Tracking in Photovoltaic Arrays. Studies in Fuzziness and Soft Computing, 2010, , 231-257.	0.8	7
18	Development of linear models of static var compensators and design of controllers suitable for enhancing dynamic/transient performance of power systems including wind farms. Electric Power Systems Research, 2011, 81, 922-929.	3.6	6

#	ARTICLE	IF	CITATIONS
19	A Short Review on the Offshore Wind Turbine Generator Windings's™ Insulation and the Effect of Water Droplets and Salinity. IEEE Transactions on Industry Applications, 2016, 52, 4610-4618.	4.9	6
20	Diagnostic Techniques in Rotating Machine Insulation: A Diagnostic Technique for Model Stator Bars Based on the Maximum Partial Discharge Magnitude. Electric Power Components and Systems, 2006, 34, 905-916.	1.8	5
21	Maximum Partial Discharge Magnitude Hysteresis Curves as a Diagnostic Technique for Model Stator Bars. IEEE Transactions on Industry Applications, 2008, 44, 1552-1558.	4.9	5
22	Provision of frequency regulation by a residential microgrid integrating PVs, energy storage and electric vehicle. , 2017, , .		5
23	A Study on the V2G Technology Incorporation in a DC Nanogrid and on the Provision of Voltage Regulation to the Power Grid. Energies, 2020, 13, 2655.	3.1	5
24	Investigation of Factors Affecting Partial Discharges on Epoxy Resin: Simulation, Experiments, and Reference on Electrical Machines. Energies, 2021, 14, 6621.	3.1	5
25	Investigation on Electrical and Thermal Performance of Glass Fiber Reinforced Epoxy'sMgO Nanocomposites. Energies, 2021, 14, 8005.	3.1	5
26	Determination of the Insulation Condition in Synchronous Generators: Industrial Methods and A Case Study. IEEE Industry Applications Magazine, 2022, 28, 67-77.	0.4	5
27	A novel dynamic demand control of an electric vehicle integrated in a solar nanogrid with energy storage. , 2017, , .		4
28	Real-time energy storage management system of a nanogrid integrating photovoltaics and V2G operation. Journal of Engineering, 2020, 2020, 32-40.	1.1	4
29	Diagnosis of Stator Faults in Synchronous Generators: Short Review and Practical Case. , 2020, , .		4
30	Partial discharge diagnostics in wind turbine insulation. Journal of Zhejiang University: Science C, 2011, 12, 515-522.	0.7	3
31	Epoxy resin insulation: The influence of nanoparticles on the flashover voltage and possible alternatives for Electrical Machines Insulation. , 2016, , .		3
32	Modeling, simulation and performance evaluation of a low-speed battery electric vehicle. , 2016, , .		3
33	Comparison of flywheels and supercapacitors for energy saving in elevators. , 2016, , .		3
34	Design Methodology of a DC Nanogrid incorporating the V2G Technology. , 2019, , .		3
35	Some Observations on the Dielectric Breakdown and the Importance of Cavities in Insulating Materials used for Cables and Electrical Machines. Advances in Electrical and Computer Engineering, 2011, 11, 123-126.	0.9	3
36	Supercapacitors based energy saving mode of electromechanical elevator's operation. , 2016, , .		2

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37	Electrical machine insulation: Partial discharges, consequences and diagnostic technique. , 2017, , .		2
38	The effect of water droplets and salinity on the offshore wind turbines windings insulation: A short review. , 2015, , .		1
39	A study on the dynamic behavior of a DFIG with sensorless-based control in cooperation with a fuzzy controlled energy storage system. , 2016, , .		1
40	Comparative study on the crowbar protection topologies for a DFIG wind turbine. , 2017, , .		1
41	Commutation Angle Self-Calibrating Technique for Brushless DC Motor Drives with Defective Hall-effect Position Sensors. , 2020, , .		1
42	An Approach of Non-Linear Systems Through Fuzzy Control Based on Takagi-Sugeno Method. Advances in Experimental Medicine and Biology, 2017, 988, 113-126.	1.6	1
43	Optimized Efficiency Predictive Controller for Induction Motor Drives in Electric Ships. , 2020, , .		1
44	Development of a software platform for a plug-in hybrid electric vehicle simulator. Open Engineering, 2012, 2, .	1.6	0
45	A view on humidity effects in high voltage electric generator's insulation. , 2017, , .		0
46	Joint Chapters of Greece Support Workshop on Powering Light-Emitting Diodes [Society News]. IEEE Power Electronics Magazine, 2017, 4, 80-81.	0.7	0
47	Investigation of a DC Microgrid's Operation Incorporating Renewable Energy Sources and Batteries. , 2018, , .		0
48	Improved Fault-Ride-Through Control Scheme without Requiring Fault-Detection System for a Doubly Fed Induction Generator in a Wind System. , 2020, , .		0
49	Energy Saving in Elevators using Flywheels or Supercapacitors. Recent Advances in Electrical and Electronic Engineering, 2017, 10, .	0.3	0
50	Design of a Management Algorithm for Energy Trading in Microgrids. Recent Advances in Electrical and Electronic Engineering, 2020, 13, 1028-1040.	0.3	0