

# 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  | An intelligent decentralized energy management strategy for the optimal electric vehicles' charging in low-voltage islanded microgrids. <i>International Journal of Energy Research</i> , 2022, 46, 2988-3016. | 4.5 | 33        |
| 2  | Determination of the Insulation Condition in Synchronous Generators: Industrial Methods and A Case Study. <i>IEEE Industry Applications Magazine</i> , 2022, 28, 67-77.  | 0.4 | 5         |
| 3  | Advances in Power Quality Analysis Techniques for Electrical Machines and Drives: A Review. <i>Energies</i> , 2022, 15, 1909.  | 3.1 | 12        |
| 4  | Digital Twin in Electrical Machine Control and Predictive Maintenance: State-of-the-Art and Future Prospects. <i>Energies</i> , 2021, 14, 5933.  | 3.1 | 34        |
| 5  | Investigation of Factors Affecting Partial Discharges on Epoxy Resin: Simulation, Experiments, and Reference on Electrical Machines. <i>Energies</i> , 2021, 14, 6621.   | 3.1 | 5         |
| 6  | Investigation on Electrical and Thermal Performance of Glass Fiber Reinforced Epoxy-MgO Nanocomposites. <i>Energies</i> , 2021, 14, 8005.  | 3.1 | 5         |
| 7  | A Fuzzy Energy Management Strategy for the Coordination of Electric Vehicle Charging in Low Voltage Distribution Grids. <i>Energies</i> , 2020, 13, 3709.  | 3.1 | 34        |
| 8  | Commutation Angle Self-Calibrating Technique for Brushless DC Motor Drives with Defective Hall-effect Position Sensors. , 2020, , .  |     | 1         |
| 9  | Improved Fault-Ride-Through Control Scheme without Requiring Fault-Detection System for a Doubly Fed Induction Generator in a Wind System. , 2020, , .   |     | 0         |
| 10 | A Study on the V2G Technology Incorporation in a DC Nanogrid and on the Provision of Voltage Regulation to the Power Grid. <i>Energies</i> , 2020, 13, 2655.   | 3.1 | 5         |
| 11 | Real-time energy storage management system of a nanogrid integrating photovoltaics and V2G operation. <i>Journal of Engineering</i> , 2020, 2020, 32-40.   | 1.1 | 4         |
| 12 | Study on fault diagnosis of broken rotor bars in squirrel cage induction motors: a multi-agent system approach using intelligent classifiers. <i>IET Electric Power Applications</i> , 2020, 14, 245-255.      | 1.8 | 28        |
| 13 | Diagnosis of Stator Faults in Synchronous Generators: Short Review and Practical Case. , 2020, , .   |     | 4         |
| 14 | Optimized Efficiency Predictive Controller for Induction Motor Drives in Electric Ships. , 2020, , .   |     | 1         |
| 15 | Review of Segmented Stator and Rotor Designs for AC Electric Machines. , 2020, , .   |     | 11        |
| 16 | Design of a Management Algorithm for Energy Trading in Microgrids. <i>Recent Advances in Electrical and Electronic Engineering</i> , 2020, 13, 1028-1040.  | 0.3 | 0         |
| 17 | Design Methodology of a DC Nanogrid incorporating the V2G Technology. , 2019, , .  |     | 3         |
| 18 | A combined control strategy of a DFIG based on a sensorless power control through modified phase-locked loop and fuzzy logic controllers. <i>Renewable Energy</i> , 2018, 121, 489-501.                        | 8.9 | 25        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Investigation of a DC Microgrid's Operation Incorporating Renewable Energy Sources and Batteries. , 2018, , .  |     | 0         |
| 20 | A bidirectional dual active bridge converter for V2G applications based on DC microgrid. , 2018, , .   |     | 16        |
| 21 | A Novel Control Algorithm for DC Motors Supplied by PVs Using Fuzzy Cognitive Networks. IEEE Access, 2018, 6, 24866-24876.   | 4.2 | 10        |
| 22 | Provision of frequency regulation by a residential microgrid integrating PVs, energy storage and electric vehicle. , 2017, , .   |     | 5         |
| 23 | A view on humidity effects in high voltage electric generator's insulation. , 2017, , .  |     | 0         |
| 24 | Comparative study on the crowbar protection topologies for a DFIG wind turbine. , 2017, , .  |     | 1         |
| 25 | Joint Chapters of Greece Support Workshop on Powering Light-Emitting Diodes [Society News]. IEEE Power Electronics Magazine, 2017, 4, 80-81.   | 0.7 | 0         |
| 26 | A novel dynamic demand control of an electric vehicle integrated in a solar nanogrid with energy storage. , 2017, , .  |     | 4         |
| 27 | Electrical machine insulation: Partial discharges, consequences and diagnostic technique. , 2017, , .  |     | 2         |
| 28 | 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         |
| 29 | Energy Saving in Elevators using Flywheels or Supercapacitors. Recent Advances in Electrical and Electronic Engineering, 2017, 10, .   | 0.3 | 0         |
| 30 | Epoxy resin insulation: The influence of nanoparticles on the flashover voltage and possible alternatives for Electrical Machines Insulation. , 2016, , .                                    |     | 3         |
| 31 | Modeling, simulation and performance evaluation of a low-speed battery electric vehicle. , 2016, , .   |     | 3         |
| 32 | 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         |
| 33 | A study on the dynamic behavior of a DFIG with sensorless-based control in cooperation with a fuzzy controlled energy storage system. , 2016, , .  |     | 1         |
| 34 | Supercapacitors based energy saving mode of electromechanical elevator's operation. , 2016, , .  |     | 2         |
| 35 | Comparison of flywheels and supercapacitors for energy saving in elevators. , 2016, , .  |     | 3         |
| 36 | The effect of water droplets and salinity on the offshore wind turbines windings insulation: A short review. , 2015, , .   |     | 1         |

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 37 | Energy consumption estimation on lift systems: The advantages of VVVF drives. , 2014, , .   |      | 7         |
| 38 | Development of a software platform for a plug-in hybrid electric vehicle simulator. Open Engineering, 2012, 2, .  | 1.6  | 0         |
| 39 | Partial discharge diagnostics in wind turbine insulation. Journal of Zhejiang University: Science C, 2011, 12, 515-522.   | 0.7  | 3         |
| 40 | 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         |
| 41 | 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        |
| 42 | 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         |
| 43 | Fuzzy Cognitive Networks for Maximum Power Point Tracking in Photovoltaic Arrays. Studies in Fuzziness and Soft Computing, 2010, , 231-257.   | 0.8  | 7         |
| 44 | 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         |
| 45 | Modeling and Simulation of a Series Parallel Hybrid Electric Vehicle Using REVS. Proceedings of the American Control Conference, 2007, , .  | 0.0  | 10        |
| 46 | 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        |
| 47 | 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       |
| 48 | 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         |
| 49 | Wind energy surveying and technoeconomic assessment of identifiable WEC system installations. Energy Conversion and Management, 2001, 42, 49-67.  | 9.2  | 10        |
| 50 | A systematic assessment of the technical feasibility and economic viability of small hydroelectric system installations. Renewable Energy, 2000, 20, 253-262.   | 8.9  | 27        |