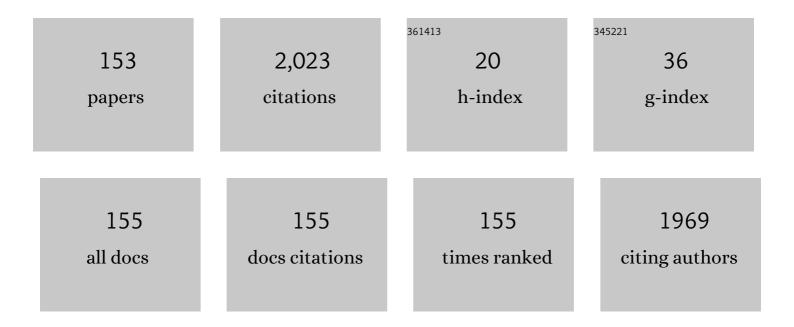
## Federico Silvestro

List of Publications by Year in descending order

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| #  | Article  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Fault Detection and Localization in Active Distribution Networks Using Optimally Placed Phasor<br>Measurements Units. IEEE Transactions on Power Systems, 2023, 38, 714-727.   | 6.5 | 11        |
| 2  | Equivalent dynamic modeling of active distribution networks for TSO-DSO interactions. , 2022, , 227-275.   |     | 0         |
| 3  | Siting and Sizing of Energy Storage Systems: Towards a Unified Approach for Transmission and<br>Distribution System Operators for Reserve Provision and Grid Support. Electric Power Systems<br>Research, 2021, 190, 106660. | 3.6 | 12        |
| 4  | Electrical consumption forecasting in hospital facilities. , 2021, , 195-211.  |     | 0         |
| 5  | Experimental Validation of a Dynamic Equivalent Model for Microgrids. IEEE Transactions on Industry Applications, 2021, 57, 2202-2211.   | 4.9 | 8         |
| 6  | VIRTUS Project: A Scalable Aggregation Platform for the Intelligent Virtual Management of Distributed Energy Resources. Energies, 2021, 14, 3663.  | 3.1 | 4         |
| 7  | Flexibility Evaluation of Domestic Electric Water Heater Aggregates. , 2021, , .   |     | 3         |
| 8  | A method for optimal integration of energy storage in distribution networks: a business case. , 2021, , .  |     | 0         |
| 9  | Performance analysis of frequency regulation services provided by aggregates of domestic<br>thermostatically controlled loads. International Journal of Electrical Power and Energy Systems,<br>2021, 131, 107050.           | 5.5 | 13        |
| 10 | Small-Signal Stability Analysis of a DC Shipboard Microgrid With Droop-Controlled Batteries and Constant Power Resources. , 2021, , .  |     | 1         |
| 11 | Assessment of the Potential Shore to Ship Load Demand: the Italian Scenario. , 2021, , .   |     | 6         |
| 12 | Day-Ahead and Intra-Day Planning of Integrated BESS-PV Systems Providing Frequency Regulation. IEEE Transactions on Sustainable Energy, 2020, 11, 1797-1806.   | 8.8 | 54        |
| 13 | Performance Comparative Assessment of Grid Connected Power Converters Control Strategies. , 2020, , .  |     | 2         |
| 14 | Frequency stability assessment of modern power systems: Models definition and parameters identification. Sustainable Energy, Grids and Networks, 2020, 23, 100384.   | 3.9 | 9         |
| 15 | An Instantaneous Growing Stream Clustering Algorithm for Probabilistic Load Modeling/Profiling. ,<br>2020, , .   |     | 4         |
| 16 | Development of a Multiphysics Real-Time Simulator for Model-Based Design of a DC Shipboard<br>Microgrid. Energies, 2020, 13, 3580.   | 3.1 | 12        |
| 17 | Frequency Fluctuations in Marine Microgrids: Origins and Identification Tools. IEEE Electrification Magazine, 2020, 8, 40-46.  | 1.8 | 9         |
| 18 | Experimental Validation of a Dynamic Equivalent Model for Microgrids. , 2020, , .  |     | 1         |

| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Control Strategy and Architecture for Integrating Distributed Fuel Cells on board Large Cruise Ships. , 2020, , .   |     | 4         |
| 20 | A quasi-optimal energy resources management technique for low voltage microgrids. International<br>Journal of Electrical Power and Energy Systems, 2020, 121, 106080.                           | 5.5 | 3         |
| 21 | Probabilistic Planning for Distribution Networks including Optimal DER Regulation and Storage Allocation. , 2020, , .   |     | 2         |
| 22 | The ShIL Project: a new laboratory infrastructure for co-simulation of multi-domain marine applications. , 2020, , .  |     | 2         |
| 23 | A Markov Chain Load Modeling Approach through a Stream Clustering Algorithm. , 2020, , .  |     | 2         |
| 24 | Distribution Level Aggregator Platform for DSO Support—Integration of Storage, Demand Response,<br>and Renewables. Frontiers in Energy Research, 2019, 7, .                                     | 2.3 | 5         |
| 25 | Frequency Regulation Services by a BESS-Generator System using Predictive Control. , 2019, , .  |     | 3         |
| 26 | The Podcast Project: An Application of Volt/Var Optimization to the Electric Distribution Network of Sanremo (Italy). , 2019, , .   |     | 3         |
| 27 | Synthetic Inertia and Primary Frequency Regulation Services by Domestic Thermal Loads. , 2019, , .  |     | 6         |
| 28 | Optimal DER Regulation and Storage Allocation in Distribution Networks: Volt/Var optimization and Congestion Relief. , 2019, , .  |     | 5         |
| 29 | Modeling of harmonic propagation of fast DC EV charging station in a Low Voltage network. , 2019, , .   |     | 7         |
| 30 | Aggregation Strategy for Reactive Power Compensation Techniques—Validation. Energies, 2019, 12, 2047.   | 3.1 | 1         |
| 31 | A Hybrid Technique for Day-Ahead PV Generation Forecasting Using Clear-Sky Models or Ensemble of<br>Artificial Neural Networks According to a Decision Tree Approach. Energies, 2019, 12, 1298. | 3.1 | 32        |
| 32 | Shipboard distributed energy resources: Motivations, challenges and possible solutions in the cruise ship arena. International Shipbuilding Progress, 2019, 66, 181-199.                        | 0.4 | 6         |
| 33 | DC Shipboard Microgrid Modeling for Fuel Cell Integration Study. , 2019, , .  |     | 6         |
| 34 | Simplified State Space Building Energy Model and Transfer Learning Based Occupancy Estimation for HVAC Optimal Control. , 2019, , .   |     | 4         |
| 35 | Algorithm for Optimal Microgrid Operation and Control with Adaptable Constraints and Flexible Objective Function. , 2019, , .   |     | 1         |
| 36 | Integration of Shipboard Microgrids Within Land Distribution Networks: Employing a Ship Microgrid<br>to Meet Critical Needs. IEEE Electrification Magazine, 2019, 7, 69-80.                     | 1.8 | 12        |

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|----|--|-----|-----------|
| 37 | Modeling and Real-Time Simulation of a DC Shipboard Microgrid. , 2019, , .   |     | 1         |
| 38 | Implementation of advanced functionalities for Distribution Management Systems: Load forecasting<br>and modeling through Artificial Neural Networks ensembles. Electric Power Systems Research, 2019,<br>167, 230-239. | 3.6 | 55        |
| 39 | Optimal Sizing of Energy Storage Systems for Shipboard Applications. IEEE Transactions on Energy Conversion, 2019, 34, 801-811.  | 5.2 | 66        |
| 40 | Operational constrained nonlinear modeling and identification of active distribution networks.<br>Electric Power Systems Research, 2019, 168, 92-104.  | 3.6 | 35        |
| 41 | Mixed-Integer Algorithm for Optimal Dispatch of Integrated PV-Storage Systems. IEEE Transactions on<br>Industry Applications, 2019, 55, 238-247.   | 4.9 | 30        |
| 42 | A Stochastic Optimization Method for Planning and Real-Time Control of Integrated PV-Storage<br>Systems: Design and Experimental Validation. IEEE Transactions on Sustainable Energy, 2018, 9, 1188-1197.              | 8.8 | 42        |
| 43 | A Stochastic Approach to Shipboard Electric Loads Power Modeling and Simulation. , 2018, , .   |     | 3         |
| 44 | Mitigation of Voltage Deviations in DC Shipboard Microgrids Through the Active Utilization of Battery Energy Storage Systems. , 2018, , .  |     | 0         |
| 45 | Frequency Regulation by Thermostatically Controlled Loads: a Technical and Economic Analysis. , 2018, , .  |     | 4         |
| 46 | Participation of Customers to Virtual Power Plants for Reactive Power Provision. , 2018, , .   |     | 6         |
| 47 | A Collaborative Laboratory for Shipboard Microgrid: Research and Training. , 2018, , .   |     | 2         |
| 48 | Performance Analysis of Distributed Control Strategies for Frequency Regulation Support by Domestic Thermal Loads. , 2018, , .   |     | 0         |
| 49 | Design and Validation of a Detailed Building Thermal Model Considering Occupancy and Temperature Sensors. , 2018, , .  |     | 4         |
| 50 | Virtual Power Plant for Improving Power System Protection Issues: Solution to the Problem of Power System Reliability under Distributed Energy Resources. , 2018, , .  |     | 0         |
| 51 | Efficiency Improvement of a Natural Gas Marine Engine Using a Hybrid Turbocharger. Energies, 2018, 11, 1924.   | 3.1 | 17        |
| 52 | Optimal Sizing of a Storage System Coupled with Grid Connected Renewable Generation Respecting<br>Day-Ahead Dispatch Profile. , 2018, , .  |     | 0         |
| 53 | A Risk-Based Methodology and Tool Combining Threat Analysis and Power System Security Assessment.<br>Energies, 2018, 11, 83.   | 3.1 | 10        |
| 54 | An Efficient Method to Take into Account Forecast Uncertainties in Large Scale Probabilistic Power<br>Flow. , 2018, , .  |     | 1         |

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|----|--|-----|-----------|
| 55 | Stochastic modelling of aggregated thermal loads for impact analysis of demand side frequency<br>regulation in the case of Sardinia in 2020. International Journal of Electrical Power and Energy<br>Systems, 2017, 93, 291-307. | 5.5 | 20        |
| 56 | Equivalent modelling of reciprocating engines generators for microgrid frequency response analysis. , 2017, , .  |     | 6         |
| 57 | Mixed-integer algorithm for optimal dispatch of integrated PV-storage systems. , 2017, , .   |     | 4         |
| 58 | Low voltage microgrid islanding through adaptive load shedding. , 2017, , .  |     | 3         |
| 59 | Mixed-Integer Linear optimization algorithm for Volt/Var Control on a distribution grid with renewable penetration. , 2017, , .  |     | 0         |
| 60 | Day-Ahead Planning and Real-Time Control of Integrated PV-Storage Systems by Stochastic Optimization. IFAC-PapersOnLine, 2017, 50, 7717-7723.  | 0.9 | 10        |
| 61 | Real time control of a low voltage microgrid through a Distribution Management System. , 2017, , .   |     | 2         |
| 62 | Dynamic equivalent modelling of active distribution networks for TSO-DSO interactions. , 2017, , .   |     | 15        |
| 63 | A load management algorithm for PCC interface breaker. , 2017, , .   |     | 1         |
| 64 | Stochastic approach for power generation optimal design and scheduling on ships. , 2017, , .   |     | 9         |
| 65 | Wind farm contribution to frequency regulation by distributed adaptive kinetic energy control. , 2017,   |     | 2         |
| 66 | Risk-Based Dynamic Security Assessment for Power System Operation and Operational Planning.<br>Energies, 2017, 10, 475.  | 3.1 | 21        |
| 67 | Energy efficient policy and real time energy monitoring in a large hospital facility: A case study.<br>International Journal of Heat and Technology, 2017, 35, S221-S227.  | 0.6 | 8         |
| 68 | Multi facility energy monitoring in medical structures: Defining KPIs for energy saving and exporting best practices. International Journal of Heat and Technology, 2017, 35, S214-S220.   | 0.6 | 2         |
| 69 | Implementation of a distribution state estimation algorithm on a low voltage test facility with distributed energy resources. , 2016, , .  |     | 9         |
| 70 | Analysis of the impact of AFE active front end on the THD on a shipboard power system: A comparison study using different simulation approaches. , 2016, , .   |     | 2         |
| 71 | Ship electrical load analysis and power generation optimisation to reduce operational costs. , 2016, , .   |     | 9         |
| 72 | Net transfer capacity assessment using point estimate method for probabilistic power flow. , 2016, , .   |     | 0         |

| #  | Article  | IF  | CITATIONS |
|----|--|-----|-----------|
| 73 | Reliability assessment of distribution systems incorporating feeder restoration actions. , 2016, , .   |     | 5         |
| 74 | Frequency control services by a building cooling system aggregate. Electric Power Systems Research, 2016, 141, 137-146.                            | 3.6 | 17        |
| 75 | Performance evaluation of algorithms for the State of Charge estimation of storage devices in microgrid operation. , 2016, , .                     |     | 10        |
| 76 | Probabilistic assessment of Net Transfer Capacity considering forecast uncertainties. , 2016, , .  |     | 0         |
| 77 | Intentional islanding of Microgrid by frequency support with building HVAC system. , 2016, , .   |     | 1         |
| 78 | Dynamic Modeling of a Supply Vessel Power System for DP3 Protection System. IEEE Transactions on Transportation Electrification, 2016, 2, 570-579. | 7.8 | 21        |
| 79 | Advanced operational functionalities for a low voltage Microgrid test site. , 2015, , .  |     | 13        |
| 80 | Dynamic models for Distributed Energy Resources in a Microgrid environment. , 2015, , .  |     | 1         |
| 81 | Dynamic modeling of a supply vessel electrical grid for DP3 protection system. , 2015, , .   |     | 2         |
| 82 | Stochastic Volt-Var optimization function for planning of MV distribution networks. , 2015, , .  |     | 2         |
| 83 | Smart management of demand in naval application: Prospects and technologies for distributed control of loads. , 2015, , .                          |     | 2         |
| 84 | A Two-Stage Margin-Based Algorithm for Optimal Plug-in Electric Vehicles Scheduling. IEEE<br>Transactions on Smart Grid, 2015, 6, 759-766.         | 9.0 | 24        |
| 85 | Distributed Energy Resources Management in a Low-Voltage Test Facility. IEEE Transactions on<br>Industrial Electronics, 2015, 62, 2593-2603.       | 7.9 | 27        |
| 86 | Electrical consumption forecasting in hospital facilities: An application case. Energy and Buildings, 2015, 103, 261-270.                          | 6.7 | 89        |
| 87 | An innovative probabilistic methodology for net transfer capacity evaluation. , 2015, , .  |     | 2         |
| 88 | Coordinated closed-loop voltage control by using a real-time Volt/VAR Optimization function for MV distribution Networks. , 2015, , .              |     | 3         |
| 89 | Volt/VAR Optimization function with load uncertainty for planning of MV distribution networks. , 2015, , .   |     | 1         |
| 90 | An optimal model-based control technique to improve wind farm participation to frequency regulation. , 2015, , .                                   |     | 1         |

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| #   | Article   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 91  | Demand side response for frequency control in a regional power system. , 2015, , .  |     | 7         |
| 92  | An Optimal Model-Based Control Technique to Improve Wind Farm Participation to Frequency<br>Regulation. IEEE Transactions on Sustainable Energy, 2015, 6, 993-1003.                                 | 8.8 | 58        |
| 93  | Applying full MILP model to volt-var optimization problem for MV distribution networks. , 2014, , .   |     | 10        |
| 94  | An aggregator for demand side management at domestic level including PEVs. , 2014, , .  |     | 1         |
| 95  | Optimal charging strategy algorithm for PEVs: A Monte Carlo validation. , 2014, , .   |     | 1         |
| 96  | A novel approach to account for uncertainty and correlations in probabilistic power flow. , 2014, , .   |     | 8         |
| 97  | Pseudo-measurements modeling using neural network and Fourier decomposition for distribution state estimation. , 2014, , .  |     | 17        |
| 98  | Hierarchical Voltage Regulation of Transmission Systems with Renewable Power Plants: an overview of the Italian case. , 2014, , .   |     | 10        |
| 99  | Management strategy for unbalanced LV distribution network with electric vehicles, heat pumps and domestic photovoltaic penetration. , 2014, , .  |     | 6         |
| 100 | Artificial neural network application to load forecasting in a large hospital facility. , 2014, , .   |     | 12        |
| 101 | Using the advanced DMS functions to handle the impact of plug-in Electric vehicles on distribution networks. , 2014, , .  |     | 1         |
| 102 | Frequency regulation by management of building cooling systems through Model Predictive Control. , 2014, , .  |     | 16        |
| 103 | Impact analysis of load control for frequency regulation: The case of Sardinia in 2020. , 2014, , .   |     | 2         |
| 104 | Experimental testing procedures and dynamic model validation for vanadium redox flow battery storage system. Journal of Power Sources, 2014, 254, 277-286.  | 7.8 | 25        |
| 105 | Coordinated contribution of wind turbines to frequency regulation by model predictive control.<br>IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 3645-3650. | 0.4 | 1         |
| 106 | An Integrated Platform for Power System Security Assessment Implementing Probabilistic and Deterministic Methodologies. IEEE Systems Journal, 2013, 7, 845-853.                                     | 4.6 | 24        |
| 107 | An architecture for implementing state estimation application in Distribution Management System (DMS). , 2013, , .  |     | 11        |
| 108 | Demand side integration aspects in active distribution planning. , 2013, , .  |     | 10        |

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| #   | Article   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 109 | Integration of renewable energy sources, energy storage systems, and electrical vehicles with smart power distribution networks. Journal of Ambient Intelligence and Humanized Computing, 2013, 4, 663-671. | 4.9 | 43        |
| 110 | Intelligent load management for a shopping mall model in a smartgrid enviroment. , 2013, , .  |     | 6         |
| 111 | Low Voltage Microgrid under Islanded Operation: Control Strategies and Experimental Tests. , 2012, , .  |     | 3         |
| 112 | An innovative platform integrating deterministic and probabilistic tools for power system security assessment within a unified approach. , 2012, , .  |     | 1         |
| 113 | Load management by advanced protection systems in low voltage microgrids. , 2012, , .   |     | 3         |
| 114 | Optimal Management Strategy of a Battery-Based Storage System to Improve Renewable Energy<br>Integration in Distribution Networks. IEEE Transactions on Smart Grid, 2012, 3, 950-958.                       | 9.0 | 134       |
| 115 | An analytical method for probabilistic load flow applied to multi-terminal HVDC networks for offshore wind farm integration. , 2012, , .  |     | 3         |
| 116 | Evaluation of requirements for Volt/Var control and optimization function in distribution management systems. , 2012, , .   |     | 39        |
| 117 | Model of a real medium voltage distribution network for analysis of distributed generation penetration in a SmartGrid scenario. , 2012, , .   |     | 9         |
| 118 | Planning and optimisation of active distribution systems - an overview of CIGRE Working Group C6.19 activities. , 2012, , .   |     | 13        |
| 119 | Power and energy control strategies for a Vanadium Redox Flow Battery and wind farm combined system. , 2011, , .  |     | 16        |
| 120 | An innovative risk control strategy in power systems involving advanced HVDC networks. , 2011, , .  |     | 0         |
| 121 | A Gas Turbine Model for Studies on Distributed Generation Penetration Into Distribution Networks.<br>IEEE Transactions on Power Systems, 2011, 26, 992-999.   | 6.5 | 39        |
| 122 | A gas turbine model for studies on distributed generation penetration into distribution networks. , 2011, , .   |     | 2         |
| 123 | Short-Term Scheduling and Control of Active Distribution Systems With High Penetration of Renewable Resources. IEEE Systems Journal, 2010, 4, 313-322.  | 4.6 | 209       |
| 124 | Microturbine Control Modeling to Investigate the Effects of Distributed Generation in Electric Energy Networks. IEEE Systems Journal, 2010, 4, 303-312.   | 4.6 | 44        |
| 125 | Operational Risk Assessment and control: A probabilistic approach. , 2010, , .  |     | 12        |
| 126 | Impact evaluation of plug-in electric vehicles (PEV) on electric distribution networks. , 2010, , .   |     | 22        |

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| #   | Article  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 127 | Indices-based voltage stability monitoring of the Italian HV Transmission System. , 2010, , .  |     | 1         |
| 128 | Modeling of DFIG Wind Turbine and Lithium Ion Energy Storage System. , 2010, , .   |     | 1         |
| 129 | Indices for fast contingency ranking in large electric power systems. , 2010, , .  |     | 7         |
| 130 | Coordinated micro-generation and load management for energy saving policies. , 2010, , .   |     | 5         |
| 131 | Short-term scheduling of active distribution systems. , 2009, , .  |     | 15        |
| 132 | A Probabilistic Risk Assessment approach to support the operation of large electric power systems. , 2009, , .   |     | 7         |
| 133 | Influence of feasibility constrains on the bidding strategy selection in a day-ahead electricity market session. Electric Power Systems Research, 2009, 79, 1727-1737. | 3.6 | 12        |
| 134 | Evaluation of some indices for voltage stability assessment. , 2009, , .   |     | 14        |
| 135 | A Solid Oxide Fuel Cell model to investigate load following and stability issues in distribution networks. , 2009, , .   |     | 5         |
| 136 | A procedure for the automatic scheduling of distributed energy resources in medium voltage networks. , 2009, , .   |     | 5         |
| 137 | Bifurcation analysis and Chaos detection in power systems. , 2008, , .   |     | 8         |
| 138 | Modeling of doubly fed induction generator (DFIG) equipped wind turbine for dynamic studies. , 2008, , $\cdot$   |     | 8         |
| 139 | Impact of distributed generation on network security: Effects on loss-of-main protection reliability. , 2008, , .  |     | 8         |
| 140 | An extensive Dynamic Security Assessment analysis on a large realistic electric power system. , 2007, , .  |     | 3         |
| 141 | On - line generation of synthetic information on voltage stability margins. , 2007, , .  |     | 1         |
| 142 | A Two-Stage Scheduler of Distributed Energy Resources. , 2007, , .   |     | 14        |
| 143 | An Energy Resource Scheduler Implemented in the Automatic Management System of a Microgrid Test<br>Facility. , 2007, , .   |     | 18        |
| 144 | ANN Application For On-Line Power System Security Assessment. , 2006, , .  |     | 2         |

ANN Application For On-Line Power System Security Assessment. , 2006, , . 144

| #   | Article   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 145 | An innovative pluralistic Load-Frequency Control scheme for the power flow control along corridors on the Italian border. , 2006, , .   |     | 3         |
| 146 | Bidding strategy selection in a day-ahead electricity auction system. , 2005, , .   |     | 1         |
| 147 | Implementation and comparison of different under frequency load-shedding schemes. , 2001, , .   |     | 125       |
| 148 | Model validation and coordinated operation of a photovoltaic array and a diesel power plant for distributed generation. , 2001, , .   |     | 24        |
| 149 | Operation and management of the electric system for industrial plants: an expert system prototype for load-shedding operator assistance. IEEE Transactions on Industry Applications, 2001, 37, 701-708. | 4.9 | 14        |
| 150 | Operation and management of the electric system for industrial plants: an expert system prototype for load-shedding operator assistance. , 0, , .   |     | 8         |
| 151 | Load control for improving system security and economics. , 0, , .  |     | 9         |
| 152 | Advanced load-shedding methodology and architecture for normal and emergency operation of the Italian power system. , 0, , .  |     | 7         |
| 153 | Wind Turbines Integration with Storage Devices: Modelling and Control Strategies. , 0, , .  |     | 3         |