

# Vergara, Pedro

## List of Publications by Year in descending order

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29  
papers

492  
citations

759233

12  
h-index

888059

17  
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all docs

33  
docs citations

33  
times ranked

506  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Optimal Management of Energy Consumption and Comfort for Smart Buildings Operating in a Microgrid. IEEE Transactions on Smart Grid, 2019, 10, 3236-3247.   | 9.0 | 74        |
| 2  | Optimal Operation of Unbalanced Three-Phase Islanded Droop-Based Microgrids. IEEE Transactions on Smart Grid, 2019, 10, 928-940.   | 9.0 | 56        |
| 3  | Security-constrained optimal energy management system for three-phase residential microgrids. Electric Power Systems Research, 2017, 146, 371-382.   | 3.6 | 52        |
| 4  | A comprehensive assessment of PV inverters operating with droop control for overvoltage mitigation in LV distribution networks. Renewable Energy, 2020, 159, 172-183.  | 8.9 | 36        |
| 5  | Distributed Strategy for Optimal Dispatch of Unbalanced Three-Phase Islanded Microgrids. IEEE Transactions on Smart Grid, 2019, 10, 3210-3225.   | 9.0 | 35        |
| 6  | A Generalized Model for the Optimal Operation of Microgrids in Grid-Connected and Islanded Droop-Based Mode. IEEE Transactions on Smart Grid, 2019, 10, 5032-5045.   | 9.0 | 30        |
| 7  | A stochastic programming model for the optimal operation of unbalanced three-phase islanded microgrids. International Journal of Electrical Power and Energy Systems, 2020, 115, 105446.                       | 5.5 | 28        |
| 8  | Towards a real-time Energy Management System for a Microgrid using a multi-objective genetic algorithm. , 2015, , .  |     | 23        |
| 9  | Adaptive coordination of sequential droop control for PV inverters to mitigate voltage rise in PV-Rich LV distribution networks. Electric Power Systems Research, 2021, 192, 106931.                           | 3.6 | 22        |
| 10 | Optimal dispatch of PV inverters in unbalanced distribution systems using Reinforcement Learning. International Journal of Electrical Power and Energy Systems, 2022, 136, 107628.                             | 5.5 | 18        |
| 11 | Increasing the PV hosting capacity with OLTC technology and PV VAR absorption in a MV/LV rural Brazilian distribution system. , 2016, , .  |     | 16        |
| 12 | A Linear AC-OPF Formulation for Unbalanced Distribution Networks. IEEE Transactions on Industry Applications, 2021, 57, 4462-4472.   | 4.9 | 16        |
| 13 | Droop-free hierarchical control strategy for inverter-based AC microgrids. IET Power Electronics, 2020, 13, 1403-1415.   | 2.1 | 14        |
| 14 | Conditional Multivariate Elliptical Copulas to Model Residential Load Profiles From Smart Meter Data. IEEE Transactions on Smart Grid, 2021, 12, 4280-4294.  | 9.0 | 12        |
| 15 | Optimal Operation of Radial Distribution Systems Using Extended Dynamic Programming. IEEE Transactions on Power Systems, 2018, 33, 1352-1363.  | 6.5 | 11        |
| 16 | Gaussian Mixture Based Uncertainty Modeling to Optimize Energy Management of Heterogeneous Building Neighborhoods: A Case Study of a Dutch University Medical Campus. Energy and Buildings, 2020, 224, 110150. | 6.7 | 11        |
| 17 | An MILP model for optimal management of energy consumption and comfort in smart buildings. , 2017, , .   |     | 7         |
| 18 | Comparative analysis of design criteria for hybrid photovoltaic/wind/battery systems. IET Renewable Power Generation, 2017, 11, 253-261.   | 3.1 | 6         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Feasibility and Performance Assessment of Commercial PV Inverters Operating with Droop Control for Providing Voltage Support Services. , 2019, , . |     | 6         |
| 20 | Community energy storage operation via reinforcement learning with eligibility traces. Electric Power Systems Research, 2022, 212, 108515.         | 3.6 | 6         |
| 21 | A Novel Linear Optimal Power Flow Model for Three-Phase Electrical Distribution Systems. , 2020, , .   |     | 4         |
| 22 | Distributed consensus-based economic dispatch considering grid operation. , 2017, , .  |     | 2         |
| 23 | Optimal schedule of dispatchable DG in electrical distribution systems with extended dynamic programming. , 2016, , .                              |     | 1         |
| 24 | A Stochastic Market-Clearing Model Using Semidefinite Relaxation. , 2019, , .  |     | 1         |
| 25 | Economic Impact of the Active Power Droop Gain in Droop-Based Islanded Microgrids. , 2019, , .   |     | 1         |
| 26 | Generalities about Design and Operation of Microgrids. DYNA (Colombia), 2015, 82, 109-119.   | 0.4 | 1         |
| 27 | Generalization of the $\hat{\mu}$ -method for decentralized economic dispatch considering reactive resources. , 2017, , .                          |     | 0         |
| 28 | Local hierarchical control for industrial microgrids with improved frequency regulation. , 2018, , .   |     | 0         |
| 29 | Operation of unbalanced three-phase islanded microgrids. , 2021, , 63-82.  |     | 0         |