

# Vergara, Pedro

## List of Publications by Year in descending order

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29  
papers

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citations

758635

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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.	6.2	74
2	Optimal Operation of Unbalanced Three-Phase Islanded Droop-Based Microgrids. IEEE Transactions on Smart Grid, 2019, 10, 928-940.	6.2	56
3	Security-constrained optimal energy management system for three-phase residential microgrids. Electric Power Systems Research, 2017, 146, 371-382.	2.1	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.	4.3	36
5	Distributed Strategy for Optimal Dispatch of Unbalanced Three-Phase Islanded Microgrids. IEEE Transactions on Smart Grid, 2019, 10, 3210-3225.	6.2	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.	6.2	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.	3.3	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.	2.1	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.	3.3	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.	3.3	16
13	Droop-free hierarchical control strategy for inverter-based AC microgrids. IET Power Electronics, 2020, 13, 1403-1415.	1.5	14
14	Conditional Multivariate Elliptical Copulas to Model Residential Load Profiles From Smart Meter Data. IEEE Transactions on Smart Grid, 2021, 12, 4280-4294.	6.2	12
15	Optimal Operation of Radial Distribution Systems Using Extended Dynamic Programming. IEEE Transactions on Power Systems, 2018, 33, 1352-1363.	4.6	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.	3.1	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.	1.7	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.	2.1	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.	0.2	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