Vergara, Pedro

List of Publications by Year
in descending order

29 papers	492 citations	759233 12 h-index	888059 17 g-index
33 all docs	33 docs citations	33 times ranked	506 citing authors

#	Article	IF	Citations
1	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
2	Community energy storage operation via reinforcement learning with eligibility traces. Electric Power Systems Research, 2022, 212, 108515.	3.6	6
3	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
4	Operation of unbalanced three-phase islanded microgrids. , 2021, , 63-82.		0
5	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
6	A Linear AC-OPF Formulation for Unbalanced Distribution Networks. IEEE Transactions on Industry Applications, 2021, 57, 4462-4472.	4.9	16
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	Droopâ€free hierarchical control strategy for inverterâ€based AC microgrids. IET Power Electronics, 2020, 13, 1403-1415.	2.1	14
9	A Novel Linear Optimal Power Flow Model for Three-Phase Electrical Distribution Systems. , 2020, , .		4
10	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
11	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
12	A Stochastic Market-Clearing Model Using Semidefinite Relaxation. , 2019, , .		1
13	Economic Impact of the Active Power Droop Gain in Droop-Based Islanded Microgrids. , 2019, , .		1
14	Feasibility and Performance Assessment of Commercial PV Inverters Operating with Droop Control for Providing Voltage Support Services. , 2019, , .		6
15	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
16	Optimal Operation of Unbalanced Three-Phase Islanded Droop-Based Microgrids. IEEE Transactions on Smart Grid, 2019, 10, 928-940.	9.0	56
17	Distributed Strategy for Optimal Dispatch of Unbalanced Three-Phase Islanded Microgrids. IEEE Transactions on Smart Grid, 2019, 10, 3210-3225.	9.0	35
18	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

#	ARTICLE	IF	CITATIONS
19	Optimal Operation of Radial Distribution Systems Using Extended Dynamic Programming. IEEE Transactions on Power Systems, 2018, 33, 1352-1363.	6.5	11
20	Local hierarchical control for industrial microgrids with improved frequency regulation. , 2018, , .		0
21	Security-constrained optimal energy management system for three-phase residential microgrids. Electric Power Systems Research, 2017, 146, 371-382.	3.6	52
22	Comparative analysis of design criteria for hybrid photovoltaic/wind/battery systems. IET Renewable Power Generation, 2017, 11, 253-261.	3.1	6
23	Distributed consensus-based economic dispatch considering grid operation. , 2017, , .		2
24	An MILP model for optimal management of energy consumption and comfort in smart buildings. , 2017, , .		7
25	Generalization of the Î»-method for decentralized economic dispatch considering reactive resources. , 2017, , .		0
26	Increasing the PV hosting capacity with OLTC technology and PV VAr absorption in a MV/LV rural Brazilian distribution system. , 2016, , .		16
27	Optimal schedule of dispatchable DG in electrical distribution systems with extended dynamic programming. , 2016, , .		1
28	Towards a real-time Energy Management System for a Microgrid using a multi-objective genetic algorithm. , 2015, , .		23
29	Generalities about Design and Operation of Microgrids. DYNA (Colombia), 2015, 82, 109-119.	0.4	1