Murali Baggu

List of Publications by Year
in descending order

37 papers	532 citations	1040056 9 h-index	1281871 11 g-index
39 all docs	39 docs citations	39 times ranked	433 citing authors

#	Article	IF	Citations
1	Coordinated Use of Smart Inverters With Legacy Voltage Regulating Devices in Distribution Systems With High Distributed PV Penetration—Increase CVR Energy Savings. IEEE Transactions on Smart Grid, 2023, 14, 1804-1813.	9.0	30
2	Dynamic P-Q Capability and Abnormal Operation Analysis of a Wind Turbine With Doubly Fed Induction Generator. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 4854-4864.	5.4	3
3	Integration of Utility Distributed Energy Resource Management System and Aggregators for Evolving Distribution System Operators. Journal of Modern Power Systems and Clean Energy, 2022, 10, 277-285.	5.4	22
4	Evaluation of Data-Enhanced Hierarchical Control for Distribution Feeders With High PV Penetration. IEEE Access, 2022, 10, 42860-42872.	4.2	9
5	Improving the Performance of Integrated Power-Hardware-in-the-Loop and Quasi-Static Time-Series Simulations. IEEE Transactions on Industrial Electronics, 2021, 68, 10938-10948.	7.9	11
6	Evaluation of Centralized Model based FLISR in a Lab Setup. , 2021, , .		4
7	Peak Load Management in Distribution Systems Using Legacy Utility Equipment and Distributed Energy Resources. , 2021, , .		5
8	Event-Driven Predictive Approach for Real-Time Volt/VAR Control With CVR in Solar PV Rich Active Distribution Network. IEEE Transactions on Power Systems, 2021, 36, 3849-3864.	6.5	25
9	Voltage Regulation Performance Evaluation of Distributed Energy Resource Management via Advanced Hardware-in-the-Loop Simulation. Energies, 2021, 14, 6734.	3.1	17
10	A Machine Learning-based Method to Estimate Transformer Primary-Side Voltages with Limited Customer-Side AMI Measurements. , 2021, , .		1
11	Performance Evaluation of Distributed Energy Resource Management via Advanced Hardware-in-the-Loop Simulation. , 2020, , .		22
12	The Impact of Behind-the-Meter Heterogeneous Distributed Energy Resources on Distribution Grids. , 2020, , .		3
13	Using an Advanced Distribution Management System Test Bed to Evaluate the Impact of Model Quality on Volt/VAR Optimization. , 2020, , .		3
14	Coordinated Optimization of Multiservice Dispatch for Energy Storage Systems With Degradation Model for Utility Applications. IEEE Transactions on Sustainable Energy, 2019, 10, 886-894.	8.8	17
15	Techno-Economic Analysis for Grid Edge Intelligence: A Preliminary Study on Smart Voltage Regulator Controls. , 2019, , .		3
16	Defining a Use Case for ADMS Testbed: Data Quality Requirements for ADMS Deployment. , 2019, , .		5
17	A Distributed Power System Control Architecture for Improved Distribution System Resiliency. IEEE Access, 2019, 7, 9957-9970.	4.2	52
18	Integrated Synchronization Control of Grid-Forming Inverters for Smooth Microgrid Transition. , 2019, , .		26

#	Article	IF	Citations
19	Considerations for AMI-Based Operations for Distribution Feeders. , 2019, , .		8
20	Data-Enhanced Hierarchical Control to Improve Distribution Voltage with Extremely High PV Penetration. , 2019, , .		6
21	Coordinated Use of Smart Inverters with Legacy Voltage Regulating Devices in Distribution Systems with High Distributed PV Penetrationâ€"Increase CVR Energy Savings. , 2019, , .		3
22	A Test Bed to Evaluate Advanced Distribution Management Systems for Modern Power Systems. , 2019, , .		21
23	Design of a Microgrid Transition Controller II: System Recovery Under Abnormal Conditions. , 2018, , .		4
24	Maximizing the Benefits of Volt/VAR Optimization in the Presence of Community Energy Storage. , 2018, , .		2
25	Development of Application Function Blocks for Power-Hardware-in-the-Loop Testing of Grid-Connected Inverters. , 2018, , .		4
26	Design of an advanced energy management system for microgrid control using a state machine. Applied Energy, 2018, 228, 2407-2421.	10.1	37
27	Design of a State Machine for smooth microgrid transition operation. , 2018, , .		2
28	Developing Use Cases for the Evaluation of ADMS Applications to Accelerate Technology Adoption. , 2017, , .		14
29	Microgrid Controllers : Expanding Their Role and Evaluating Their Performance. IEEE Power and Energy Magazine, 2017, 15, 41-49.	1.6	35
30	Application of autonomous smart inverter Volt-VAR function for voltage reduction energy savings and power quality in electric distribution systems. , 2017, , .		23
31	Performance and health test procedure for grid energy storage systems. , 2017, , .		3
32	Advanced inverter functions and communication protocols for distribution management. , 2016, , .		1
33	Modeling and compensation design for a power hardware-in-the-loop simulation of an AC distribution system. , 2016, , .		25
34	Improving advanced inverter control convergence in distribution power flow. , 2016, , .		3
35	Interconnection assessment methodology and cost benefit analysis for high-penetration PV deployment in the Arizona Public Service system. , 2015, , .		7
36	Feeder model validation and simulation for high-penetration photovoltaic deployment in the Arizona Public Service system. , 2014, , .		11

#	Article	IF	Citations
37	Accurate power prediction of spatially distributed PV systems using localized irradiance measurements. , 2014, , .		10