

Subham Sahoo

List of Publications by Year in descending order

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69
papers

1,738
citations

257450

24
h-index

289244

40
g-index

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all docs

69
docs citations

69
times ranked

963
citing authors

#	ARTICLE	IF	CITATIONS
1	On Addressing the Security and Stability Issues Due to False Data Injection Attacks in DC Microgrids—An Adaptive Observer Approach. IEEE Transactions on Power Electronics, 2022, 37, 2801-2814.	7.9	26
2	A Review of Cyber—Physical Security for Photovoltaic Systems. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 4879-4901.	5.4	47
3	Robust optimization based harmonic mitigation method in islanded microgrids. International Journal of Electrical Power and Energy Systems, 2022, 137, 107631.	5.5	7
4	Home Energy Management Systems: Operation and Resilience of Heuristics Against Cyberattacks. IEEE Systems, Man, and Cybernetics Magazine, 2022, 8, 21-30.	1.4	4
5	Projections of Cyberattacks on Stability of DC Microgrids—Modeling Principles and Solution. IEEE Transactions on Power Electronics, 2022, 37, 11774-11786.	7.9	15
6	Cybersecurity in Power Electronics Using Minimal Data — A Physics-Informed Spline Learning Approach. IEEE Transactions on Power Electronics, 2022, 37, 12938-12943.	7.9	9
7	Data-Driven Detection of Stealth Cyber-Attacks in DC Microgrids. IEEE Systems Journal, 2022, 16, 6097-6106.	4.6	12
8	Cyber Security in Control of Grid-Tied Power Electronic Converters—Challenges and Vulnerabilities. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 5326-5340.	5.4	90
9	A Localized Event-Driven Resilient Mechanism for Cooperative Microgrid Against Data Integrity Attacks. IEEE Transactions on Cybernetics, 2021, 51, 3687-3698.	9.5	27
10	Resilient Synchronization Strategy for AC Microgrids Under Cyber Attacks. IEEE Transactions on Power Electronics, 2021, 36, 73-77.	7.9	67
11	Multilayer Resilience Paradigm Against Cyber Attacks in DC Microgrids. IEEE Transactions on Power Electronics, 2021, 36, 2522-2532.	7.9	49
12	Cyber security in power electronic systems. , 2021, , 199-220.		1
13	Stability Oriented Design of Cyber Attack Resilient Controllers for Cooperative DC Microgrids. IEEE Transactions on Power Electronics, 2021, , 1-1.	7.9	14
14	A Model-Free Predictive Controller for Networked Microgrids with Random Communication Delays. , 2021, , .		7
15	Novel control solutions for DoS attack delay mitigation in grid-connected and standalone inverters. , 2021, , .		5
16	An Overview of Fully Integrated Switching Power Converters Based on Switched-Capacitor versus Inductive Approach and Their Advanced Control Aspects. Energies, 2021, 14, 3250.	3.1	5
17	Hybrid Model Predictive Control of DC—DC Boost Converters With Constant Power Load. IEEE Transactions on Energy Conversion, 2021, 36, 1347-1356.	5.2	45
18	Decentralized Coordinated Cyberattack Detection and Mitigation Strategy in DC Microgrids Based on Artificial Neural Networks. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 4629-4638.	5.4	51

#	ARTICLE	IF	CITATIONS
19	A Review on Artificial Intelligence Applications for Grid-Connected Solar Photovoltaic Systems. Energies, 2021, 14, 4690.	3.1	40
20	Mitigating Concurrent False Data Injection Attacks in Cooperative DC Microgrids. IEEE Transactions on Power Electronics, 2021, 36, 9637-9647.	7.9	39
21	Detection and Mitigation of False Data in Cooperative DC Microgrids With Unknown Constant Power Loads. IEEE Transactions on Power Electronics, 2021, 36, 9565-9577.	7.9	44
22	On the Assessment of Cyber Risks and Attack Surfaces in a Real-Time Co-Simulation Cybersecurity Testbed for Inverter-Based Microgrids. Energies, 2021, 14, 4941.	3.1	16
23	A Cosine Similarity-Based Centralized Protection Scheme for dc Microgrids. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 5646-5656.	5.4	25
24	A Review of Current Research Trends in Power-Electronic Innovations in Cyber-Physical Systems. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 5146-5163.	5.4	48
25	A Fully Resilient Cyber-Secure Synchronization Strategy for AC Microgrids. IEEE Transactions on Power Electronics, 2021, 36, 13372-13378.	7.9	25
26	Stability Investigation of DC Microgrids Under Stealth Cyber Attacks. , 2021, , .		3
27	On the Explainability of Black Box Data-Driven Controllers for Power Electronic Converters. , 2021, , .		11
28	System-Level Mapping of Modeling Methods for Stability Characterization in Microgrids. , 2021, , .		2
29	Physics Guided Data-Driven Characterization of Anomalies in Power Electronic Systems. , 2021, , .		4
30	Decentralized Anomaly Characterization Certificates in Cyber-Physical Power Electronics Based Power Systems. , 2021, , .		5
31	From Physics to Data Oriented Cyber Attack Profile Emulation in Grid Connected PV Systems. , 2021, , .		3
32	Stealth Attacks in Microgrids: Modeling Principles and Detection. , 2021, , .		1
33	A Cooperative Adaptive Droop Based Energy Management and Optimal Voltage Regulation Scheme for DC Microgrids. IEEE Transactions on Industrial Electronics, 2020, 67, 2894-2904.	7.9	69
34	Distributed Screening of Hijacking Attacks in DC Microgrids. IEEE Transactions on Power Electronics, 2020, 35, 7574-7582.	7.9	53
35	Flexibility investigation of price-responsive batteries in the microgrids cluster. , 2020, , .		8
36	Clustering-Based Penalty Signal Design for Flexibility Utilization. IEEE Access, 2020, 8, 208850-208860.	4.2	11

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37	Resilient Operation of Heterogeneous Sources in Cooperative DC Microgrids. IEEE Transactions on Power Electronics, 2020, 35, 12601-12605.	7.9	29
38	An Event-Driven Resilient Control Strategy for DC Microgrids. IEEE Transactions on Power Electronics, 2020, 35, 13714-13724.	7.9	49
39	On Detection of False Data in Cooperative DC Microgrids—A Discordant Element Approach. IEEE Transactions on Industrial Electronics, 2020, 67, 6562-6571.	7.9	109
40	An Adaptive Backstepping Based Virtual Inertial Control Framework for DC Microgrids. , 2020, , .		4
41	A Linear Regression Based Resilient Optimal Operation of AC Microgrids. , 2020, , .		1
42	Adaptive Resilient Operation of Cooperative Grid-Forming Converters Under Cyber Attacks. , 2020, , .		11
43	A Distributed Fixed-Time Secondary Controller for DC Microgrid Clusters. IEEE Transactions on Energy Conversion, 2019, 34, 1997-2007.	5.2	39
44	Performance Validation of Cooperative Controllers in Autonomous AC Microgrids Under Communication Delay. , 2019, , .		3
45	A Stealth Cyber-Attack Detection Strategy for DC Microgrids. IEEE Transactions on Power Electronics, 2019, 34, 8162-8174.	7.9	169
46	A Distributed Finite-Time Secondary Average Voltage Regulation and Current Sharing Controller for DC Microgrids. IEEE Transactions on Smart Grid, 2019, 10, 282-292.	9.0	155
47	Power Quality Improvement of Grid-Connected DC Microgrids Using Repetitive Learning-Based PLL Under Abnormal Grid Conditions. IEEE Transactions on Industry Applications, 2018, 54, 82-90.	4.9	42
48	A Multi-Objective Adaptive Control Framework in Autonomous DC Microgrid. IEEE Transactions on Smart Grid, 2018, 9, 4918-4929.	9.0	17
49	An Adaptive Event-Triggered Communication-Based Distributed Secondary Control for DC Microgrids. IEEE Transactions on Smart Grid, 2018, 9, 6674-6683.	9.0	118
50	A linear quadratic regulator for small signal stability improvement of grid connected PMSG. , 2018, , .		2
51	A containment based distributed finite-time controller for bounded voltage regulation & proportionate current sharing in DC microgrids. Applied Energy, 2018, 228, 2526-2538.	10.1	13
52	Handshaking V2G strategy for grid connected PV assisted charging station. IET Renewable Power Generation, 2017, 11, 1410-1417.	3.1	13
53	A Systematic V2G Control Scheme Assisted by Negative Feedforward DC Voltage Stabilization for Frequency Response. IFAC-PapersOnLine, 2017, 50, 213-218.	0.9	1
54	Investigation of Distributed Cooperative Control for DC Microgrids in Different Communication Medium. Energy Procedia, 2017, 142, 2218-2223.	1.8	4

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55	An adaptive droop based cooperative control framework in DC microgrids. , 2017, , .		2
56	Dynamic performance of dq0-frame deadbeat controller for VSC based HVDC system. , 2016, , .		3
57	A decentralized adaptive droop based power management scheme in autonomous DC microgrid. , 2016, , .		5
58	Investigation of voltage template based control of a grid connected DC microgrid under different grid conditions. , 2016, , .		5
59	Fuzzy logic based control of power converter system in autonomous DC microgrid. , 2016, , .		1
60	A non-linear adaptive control strategy for grid connected DC microgrid. , 2016, , .		0
61	A consensus priority algorithm based V2G charging framework for frequency response. , 2016, , .		2
62	Hybrid MIMO based controller for energy management in a grid connected DC microgrid. , 2015, , .		11
63	A Systematic State of Charge based V2G Charging Framework for Frequency Response. IFAC-PapersOnLine, 2015, 48, 31-36.	0.9	4
64	Comparative analysis of optimal load dispatch through evolutionary algorithms. Ain Shams Engineering Journal, 2015, 6, 107-120.	6.1	31
65	Improved Mean Variance Mapping Optimization for the Travelling Salesman Problem. Smart Innovation, Systems and Technologies, 2015, , 67-75.	0.6	1
66	Solution of economic load dispatch by evolutionary optimization algorithms — A comparative study. , 2014, , .		4
67	Hybrid Mean-Variance Mapping Optimization to determine the number of clusters in network partitioning of Hydro Québec Power Grid. , 2014, , .		0
68	An optimised design of controller for UPFC to improve the transient stability performance in power system. , 2013, , .		0
69	A detailed analysis of optimized load frequency controller for static and dynamic load variation in an AC microgrid. , 2013, , .		2