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
69 all docs	69 docs citations	69 times ranked	963 citing authors

#	Article	IF	Citations
1	A Stealth Cyber-Attack Detection Strategy for DC Microgrids. IEEE Transactions on Power Electronics, 2019, 34, 8162-8174.	7.9	169
2	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
3	An Adaptive Event-Triggered Communication-Based Distributed Secondary Control for DC Microgrids. IEEE Transactions on Smart Grid, 2018, 9, 6674-6683.	9.0	118
4	On Detection of False Data in Cooperative DC Microgridsâ€"A Discordant Element Approach. IEEE Transactions on Industrial Electronics, 2020, 67, 6562-6571.	7.9	109
5	Cyber Security in Control of Grid-Tied Power Electronic Convertersâ€"Challenges and Vulnerabilities. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 5326-5340.	5.4	90
6	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
7	Resilient Synchronization Strategy for AC Microgrids Under Cyber Attacks. IEEE Transactions on Power Electronics, 2021, 36, 73-77.	7.9	67
8	Distributed Screening of Hijacking Attacks in DC Microgrids. IEEE Transactions on Power Electronics, 2020, 35, 7574-7582.	7.9	53
9	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
10	An Event-Driven Resilient Control Strategy for DC Microgrids. IEEE Transactions on Power Electronics, 2020, 35, 13714-13724.	7.9	49
11	Multilayer Resilience Paradigm Against Cyber Attacks in DC Microgrids. IEEE Transactions on Power Electronics, 2021, 36, 2522-2532.	7.9	49
12	A Review of Current Research Trends in Power-Electronic Innovations in Cyberâ€"Physical Systems. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 5146-5163.	5.4	48
13	A Review of Cyberâ€"Physical Security for Photovoltaic Systems. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 4879-4901.	5.4	47
14	Hybrid Model Predictive Control of DCâ€"DC Boost Converters With Constant Power Load. IEEE Transactions on Energy Conversion, 2021, 36, 1347-1356.	5.2	45
15	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
16	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
17	A Review on Artificial Intelligence Applications for Grid-Connected Solar Photovoltaic Systems. Energies, 2021, 14, 4690.	3.1	40
18	A Distributed Fixed-Time Secondary Controller for DC Microgrid Clusters. IEEE Transactions on Energy Conversion, 2019, 34, 1997-2007.	5.2	39

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19	Mitigating Concurrent False Data Injection Attacks in Cooperative DC Microgrids. IEEE Transactions on Power Electronics, 2021, 36, 9637-9647.	7.9	39
20	Comparative analysis of optimal load dispatch through evolutionary algorithms. Ain Shams Engineering Journal, 2015, 6, 107-120.	6.1	31
21	Resilient Operation of Heterogeneous Sources in Cooperative DC Microgrids. IEEE Transactions on Power Electronics, 2020, 35, 12601-12605.	7.9	29
22	A Localized Event-Driven Resilient Mechanism for Cooperative Microgrid Against Data Integrity Attacks. IEEE Transactions on Cybernetics, 2021, 51, 3687-3698.	9.5	27
23	On Addressing the Security and Stability Issues Due to False Data Injection Attacks in DC Microgridsâ€”An Adaptive Observer Approach. IEEE Transactions on Power Electronics, 2022, 37, 2801-2814.	7.9	26
24	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
25	A Fully Resilient Cyber-Secure Synchronization Strategy for AC Microgrids. IEEE Transactions on Power Electronics, 2021, 36, 13372-13378.	7.9	25
26	A Multi-Objective Adaptive Control Framework in Autonomous DC Microgrid. IEEE Transactions on Smart Grid, 2018, 9, 4918-4929.	9.0	17
27	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
28	Projections of Cyberattacks on Stability of DC Microgridsâ€”Modeling Principles and Solution. IEEE Transactions on Power Electronics, 2022, 37, 11774-11786.	7.9	15
29	Stability Oriented Design of Cyber Attack Resilient Controllers for Cooperative DC Microgrids. IEEE Transactions on Power Electronics, 2021, , 1-1.	7.9	14
30	Handshaking V2G strategy for grid connected PV assisted charging station. IET Renewable Power Generation, 2017, 11, 1410-1417.	3.1	13
31	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
32	Data-Driven Detection of Stealth Cyber-Attacks in DC Microgrids. IEEE Systems Journal, 2022, 16, 6097-6106.	4.6	12
33	Hybrid MVMO based controller for energy management in a grid connected DC microgrid. , 2015, , .		11
34	Clustering-Based Penalty Signal Design for Flexibility Utilization. IEEE Access, 2020, 8, 208850-208860.	4.2	11
35	On the Explainability of Black Box Data-Driven Controllers for Power Electronic Converters. , 2021, , .		11
36	Adaptive Resilient Operation of Cooperative Grid-Forming Converters Under Cyber Attacks. , 2020, , .		11

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37	Cybersecurity in Power Electronics Using Minimal Data â€“ A Physics-Informed Spline Learning Approach. IEEE Transactions on Power Electronics, 2022, 37, 12938-12943.	7.9	9
38	Flexibility investigation of price-responsive batteries in the microgrids cluster. , 2020, , .		8
39	A Model-Free Predictive Controller for Networked Microgrids with Random Communication Delays. , 2021, , .		7
40	Robust optimization based harmonic mitigation method in islanded microgrids. International Journal of Electrical Power and Energy Systems, 2022, 137, 107631.	5.5	7
41	A decentralized adaptive droop based power management scheme in autonomous DC microgrid. , 2016, , .		5
42	Investigation of voltage template based control of a grid connected DC microgrid under different grid conditions. , 2016, , .		5
43	Novel control solutions for DoS attack delay mitigation in grid-connected and standalone inverters. , 2021, , .		5
44	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
45	Decentralized Anomaly Characterization Certificates in Cyber-Physical Power Electronics Based Power Systems. , 2021, , .		5
46	Solution of economic load dispatch by evolutionary optimization algorithms — A comparative study. , 2014, , .		4
47	A Systematic State of Charge based V2G Charging Framework for Frequency Response. IFAC-PapersOnLine, 2015, 48, 31-36.	0.9	4
48	Investigation of Distributed Cooperative Control for DC Microgrids in Different Communication Medium. Energy Procedia, 2017, 142, 2218-2223.	1.8	4
49	An Adaptive Backstepping Based Virtual Inertial Control Framework for DC Microgrids. , 2020, , .		4
50	Physics Guided Data-Driven Characterization of Anomalies in Power Electronic Systems. , 2021, , .		4
51	Home Energy Management Systems: Operation and Resilience of Heuristics Against Cyberattacks. IEEE Systems, Man, and Cybernetics Magazine, 2022, 8, 21-30.	1.4	4
52	Dynamic performance of dq0-frame deadbeat controller for VSC based HVDC system. , 2016, , .		3
53	Performance Validation of Cooperative Controllers in Autonomous AC Microgrids Under Communication Delay. , 2019, , .		3
54	Stability Investigation of DC Microgrids Under Stealth Cyber Attacks. , 2021, , .		3

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55	From Physics to Data Oriented Cyber Attack Profile Emulation in Grid Connected PV Systems. , 2021, , .		3
56	A detailed analysis of optimized load frequency controller for static and dynamic load variation in an AC microgrid. , 2013, , .		2
57	A consensus priority algorithm based V2G charging framework for frequency response. , 2016, , .		2
58	An adaptive droop based cooperative control framework in DC microgrids. , 2017, , .		2
59	A linear quadratic regulator for small signal stability improvement of grid connected PMSG. , 2018, , .		2
60	System-Level Mapping of Modeling Methods for Stability Characterization in Microgrids. , 2021, , .		2
61	Improved Mean Variance Mapping Optimization for the Travelling Salesman Problem. Smart Innovation, Systems and Technologies, 2015, , 67-75.	0.6	1
62	Fuzzy logic based control of power converter system in autonomous DC microgrid. , 2016, , .		1
63	A Systematic V2G Control Scheme Assisted by Negative Feedforward DC Voltage Stabilization for Frequency Response. IFAC-PapersOnLine, 2017, 50, 213-218.	0.9	1
64	Cyber security in power electronic systems. , 2021, , 199-220.		1
65	A Linear Regression Based Resilient Optimal Operation of AC Microgrids. , 2020, , .		1
66	Stealth Attacks in Microgrids: Modeling Principles and Detection. , 2021, , .		1
67	An optimised design of controller for UPFC to improve the transient stability performance in power system. , 2013, , .		0
68	Hybrid Mean-Variance Mapping Optimization to determine the number of clusters in network partitioning of Hydro Québec Power Grid. , 2014, , .		0
69	A non-linear adaptive control strategy for grid connected DC microgrid. , 2016, , .		0